

Grundlagen des Mathematik-Anfangsunterrichts

1. Grundleistungen

Die Bildung von Zahlbegriffen im Zahlenraum von 0 bis 9 muß im Mathematik-Anfangsunterricht einen breiten Raum einnehmen. Für ein wirkliches Zahlenverständnis, nämlich die Zahl als Kardinalzahl (= Anzahl der Elemente einer Menge) und Ordinalzahl (= Stellung des Elementes in einer durchnummerierten Menge) zu begreifen, müssen sich beim Kind zwei kognitive Fähigkeiten gebildet haben:

1. Die Fähigkeit zur Gruppenbildung - Die Klassifikation
2. Die Fähigkeit zur Reihenbildung - Die Seriation

Für jede zu erlernende Zahl im ZR von 0 bis 9 sind dabei vor der Addition und Subtraktion folgende Grundleistungen zu erbringen:

- **Das Merken der Zahlnamen**
- **Die Graphomotorik der Zahl**
- **Die Zuordnung der Menge zur Zahl und der Zahl zur Menge**
- **Die Stellung der Zahl in der Zahlenreihe**
- **Der Vergleich der Mächtigkeit der Menge mit anderen Mengen**
- **Das Vergrößern und Verkleinern von Mengen**

2. Kognitive Fähigkeiten für die Erfassung von Zahlbegriffen

Das Fundament für die kognitive Erfassung von Zahlbegriffen bilden grundlegende Fähigkeiten aus dem Bereich des "pränumerischen" Rechnens (= das Hantieren mit Mengen noch vor bzw. neben der Verwendung von Zahlen). Für das Rechnen mit Zahlen sollte ein Kind das folgende Wissen erworben haben:

- > **Merkmale von Gegenständen erkennen**
("klein", "groß", "dreieckig"...)
- > **Bildung von Gruppen**
("alle viereckigen Bausteine", "alle kleinen Männchen ", ...)
- > **Erkennen der Invarianz**
(„5“ bleibt „5“, egal ob die Elemente dicht zusammen liegen oder weit auseinander)
- > **Erkennen der Repräsentanz**

(„5 bleibt 5“ egal, ob 5 Elefanten oder 5 Ameisen oder 5 ganz verschiedene Dinge)

- > **Bildung von Reihen (Seriation)**
("Zuerst das kleine, dann das etwas größere, zum Schluß das ganz große ...")
- > **Vergleichen von Mengen (Klassifikation)**
("mehr", "weniger", "kleiner", "größer", „gleich viel“)
- > **Zerlegen, Ergänzen, Vergrößern und Verkleinern von Mengen (Operationen)**

Diese Fähigkeiten stellen die Basis für den gesamten Mathematikunterricht dar und sind bereits im allgemeinen bei vielen Grundschulern zum Schulanfang vorhanden. Kinder mit Lernschwierigkeiten (aus welchen Gründen auch immer) haben hier noch einen großen Nachholbedarf. Bei einem zu frühen Operieren mit Zahlen auf abstrakter Ebene entwickeln diese Kinder oft mechanische, nicht sinnvolle Strategien, ohne daß sie die mathematischen Grundlagen begriffen haben. Nicht selten entsteht dann später eine mehr oder weniger ausgeprägte sogenannte Rechenschwäche.

3. Die Bedeutung der Wahrnehmung für die Zahlbegriffsbildung

Zur Zahlbegriffsbildung werden bestimmte Fähigkeiten der Informationsaufnahme und -verarbeitung vorausgesetzt. Störungen der sensorischen Wahrnehmung, der Motorik und in den integrativen Prozessen (= verschiedene Wahrnehmungsleistungen werden miteinander verknüpft) beeinflussen die Entwicklung des mathematischen Denkens - natürlich nicht nur dieses - erheblich.

- * Zur Bedeutung der **SENSORIK (WAHRNEHMUNG)**
(vestibulär / taktil / kinästhetisch / visuell / auditiv)

Das funktionierende **Gleichgewicht** (vestibulärer Sinn) bildet ganz allgemein die Basis für das harmonisierende Funktionieren der anderen Sinne. Ein Kind, das besondere Konzentration dafür "verbraucht", sich im Gleichgewicht zu halten, hat mangelnde Kräfte für andere Wahrnehmungsleistungen "übrig".

Über die **taktil-kinästhetische** Wahrnehmung entwickelt sich das Wissen um Formen, Größen, Gewichte, Entfernungen, Raumlage. Erschwernisse in diesem Wahrnehmungsbereich ziehen einen Mangel an „greifender“ Erfahrung nach sich (oder ursächlich auch umgekehrt!). Störungen in der taktilen und der kinästhetischen Wahrnehmung beeinflussen auch die Feinmotorik: Stifte werden verkrampft gehalten, Muggelsteine können nicht gegriffen werden, das

Ausschneiden von Formen gelingt nicht. Das Wissen um den eigenen Körper - das Körperschema - (das Fühlen des eigenen Körpers und der eigenen Bewegungen) sind die Voraussetzung für die Orientierung im Raum. Durch das Körperschema ist es dem Kind möglich, die Raumlage von Gegenständen zu erfassen und räumliche Beziehungen herzustellen.

Die **visuelle** Wahrnehmungsfähigkeit ist Grundlage für viele integrative Prozesse (Auge-Hand-Koordination, Raum-Lage-Beziehung, visuelle Figur-Hintergrund-Unterscheidung, Formkonstanz), die in einem bedeutungstragenden Zusammenhang mit mathematischen Leistungen stehen. Störungen der visuellen Wahrnehmung wirken sich darum besonders hemmend auf die Entwicklung mathematischer Leistungen aus.

Über die **auditive** Wahrnehmung lernt das Kind, Erscheinungen seiner Umwelt in sprachliche Begriffe zu fassen. Es erwirbt dabei die Bedeutung der Lautsymbole für den Mengen- und Zahlbegriff. Störungen der auditiven Wahrnehmung können in verschiedenen Teilleistungen wirksam werden. So kann das Rechnen "im Kopf" bei phonematischer Differenzierungsschwäche aufgrund ähnlich klingender Zahlenamen (eins, zwei, drei, dreizehn, dreißig ...) erschwert werden. Bei gestörter auditiver Figur-Hintergrund-Wahrnehmung werden Anweisungen und Erklärungen bei einem normalen Geräuschpegel nicht verstanden. Schwächen in der auditiven Merkfähigkeit erschweren das Verstehen von Anweisungen, das „Behalten“ von mündlich gestellten Rechenaufgaben.

* Zur Bedeutung der **MOTORIK**

Kann ein Kind in der frühkindlichen Entwicklung keine ausreichenden motorischen Erfahrungen machen (egal, ob sie ihm zu wenig ermöglicht werden oder ob sie aufgrund vorhandener Schwächen vom Kind selbst vermieden werden), übt es sich zu wenig im Entdecken räumlicher Beziehungen zu seinem Körper. Räume werden dann schlicht zu wenig begangen, begriffen, erfahren. „Oben“, „unten“, „hinter“, „weit weg“, „kurz“, „lang“ usw. müssen durch das Erleben der Bewegung im Raum erkundet und erfaßt werden.

Aber eben diese Erfahrungen bilden das Fundament für mathematische Vorstellungen. Denn Mathematik ist ein Denken in „Räumen“:

„Zahlenraum“ / „überschreiten“ / „davor“ / „danach“ / „unter“ / „über“ / „Reihung“

Dies sind räumliche Begriffe, mit denen nur dann sachgerecht -mathematisch- umgegangen werden kann, wenn ihnen konkret handelnde Erfahrungen vorausgegangen sind.

Durch Störungen in der Verknüpfung von taktilen und visuellen Reizen bildet sich die Auge-Hand-Koordination verspätet und ungenau aus. Das Kind kann allen feinmotorischen Anforderungen des Unterrichts, wie schneiden, kleben, malen und schreiben nicht gerecht werden.

Auch der Motorik der Augenmuskeln ist eine große Bedeutung zuzuschreiben. Sie ist als Grundlage für folgende Fähigkeiten zu sehen:

- Fixieren eines ruhenden Gegenstandes mit den Augen
- schneller Blickwechsel von einem Gegenstand zum anderen durch Augensprünge
- kontinuierliches Verfolgen eines sich bewegenden Gegenstandes
- Abtasten einer Reihe ruhender Gegenstände

Diese Fähigkeiten, die Grundlage für die Erfassung der Merkmale von Gegenständen bilden, stellen eine Grundvoraussetzung für die Bildung von Zahlbegriffen dar.

4. Schlußfolgerungen für den Mathematik-Anfangsunterricht

Der Mathematik-Anfangsunterricht sollte gründlich die Zahl-Begriffsbildung absichern (sie wird in den Mathematik-Büchern als vorhanden vorausgesetzt bzw. zu kurz abgehandelt bzw. kann auch gar nicht durch Bücher erschöpfend geleistet werden). Es sollten viele Übungen zur Schulung der Wahrnehmung und der Motorik einbezogen werden. Den Kindern muß ausgiebig Gelegenheit zum Hantieren mit Materialien gegeben werden. Dabei sollte eine schrittweise Abstraktion vom konkret anschaulichen zum symbolisch dargestellten Rechnen erfolgen. Die Sicherung des Fundaments sollte unbedingt nur im Zahlenraum von 0 bis 9 erfolgen. Dem dekadischen Aufbau unseres Positionssystem entsprechend gehört die Zahl 10 bereits zur 1. Bündelung und hat damit im Vergleich zu den Grundzahlen ein neues Niveau.

Hinweis 1

In jeder Klasse gibt es Kinder, die mit brillantem „Zählen-Können“, perfektem Ziffern-Schreiben und gelernten Rechenaufgaben überraschen. Man sollte sich vergewissern, wie „rechenstark“ diese Schüler wirklich sind (Zählen-Können bedeutet z.B. noch längst nicht das Vorhandensein eines sicheren Mengenbegriffs! Es kann dem Aufzählen eines Gedichts entsprechen - ohne Verständnis dafür, daß z.B. 6 mehr ist als 4, um wieviel kleiner die Menge 4 im Vergleich zur Menge 6 ist oder welche Zahl zwischen 4 und 6 liegt) und überprüfen, ob oben genannte Grundleistungen (siehe Punkt 1) im Zahlenraum bis 9 abgesichert sind.

Hinweis 2

Unsere Ausführungen zielen auf die Systematik des Aufbaus mathematischer Grundlagen. Diese Systematik sollten wir für den Unterricht und die Beobachtung der Lernschritte der Kinder immer im Hinterkopf haben.

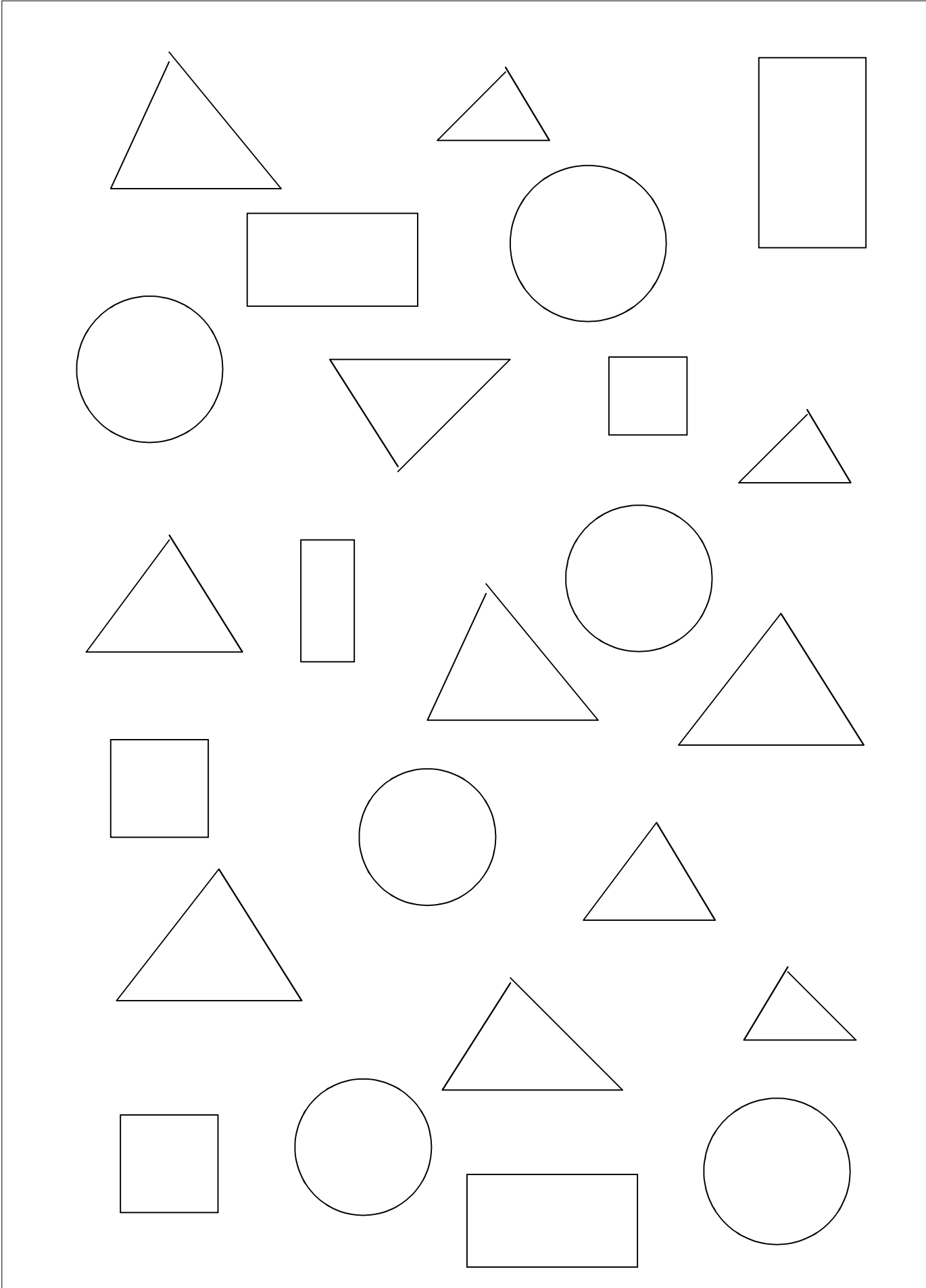
Aber Lernen erfolgt nicht nur systematisch, Schritt für Schritt. Lern- und Entwicklungsschritte machen individuell Umwege und Sprünge. Lernen „besteht im fortlaufenden Knüpfen und Umstrukturieren eines flexiblen Netzes aus Wissenselementen und Fertigkeiten, wobei es die Lernenden selbst sind, die unterstützt durch geeignete Lernumgebungen, ihre Wissensnetze von verschiedenen Stellen aus aktiv-entdeckend weiterknüpfen ... Lücken an einer Stelle sind keineswegs ein Hindernis für den Ausbau des Netzes an einer anderen Stelle. Sie ...“ können „im Laufe des Lernprozesses geschlossen“ werden, „indem über die Lücken hinweg ‘Wissensfäden’ gespannt und an den schon festeren Teilen des Netzes verankert werden.“ (1, S. 3, Hervorhebungen von den Verfasserinnen)

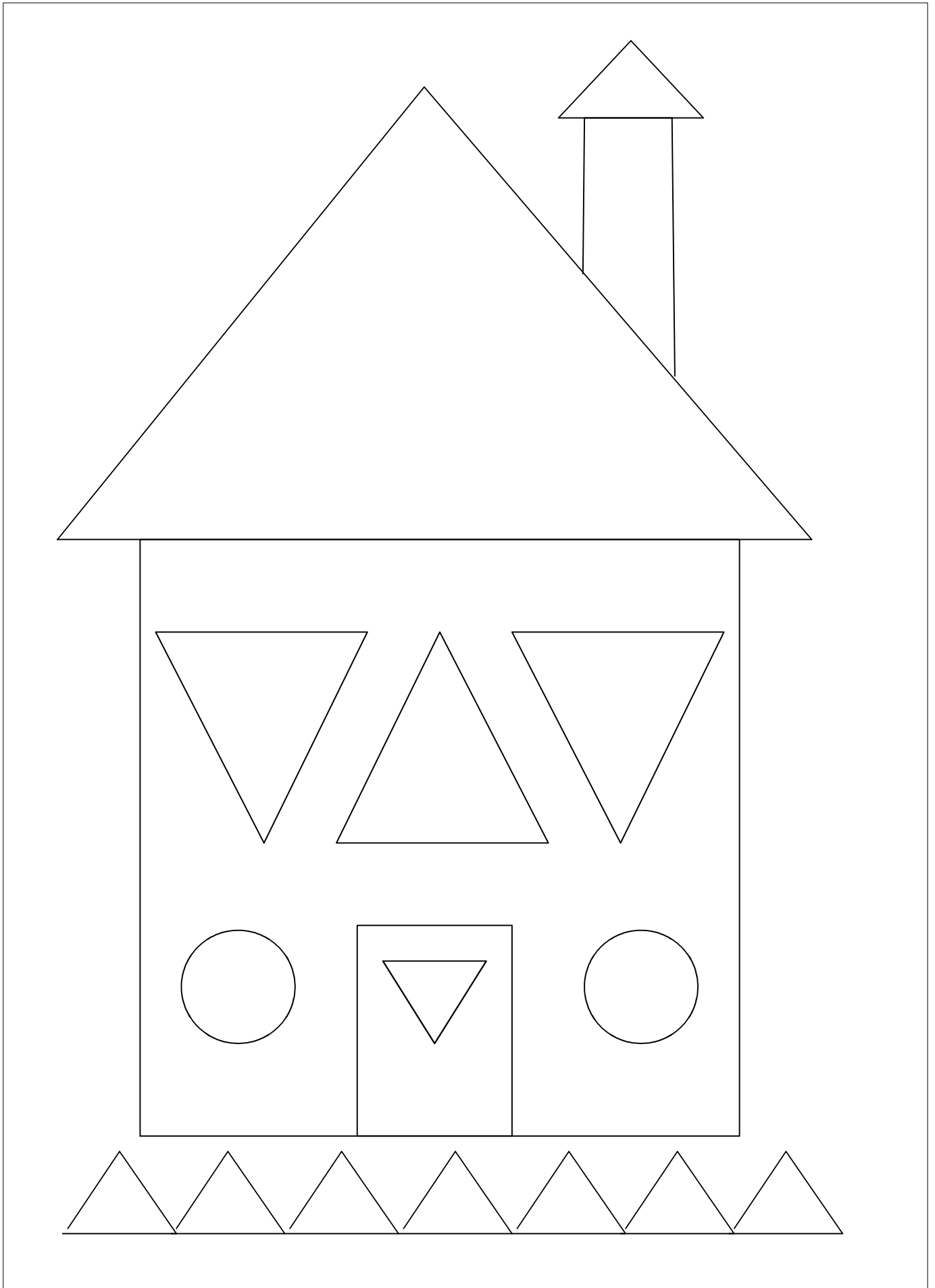
Diese Sichtweise sollte uns bestärken, Gelassenheit und Ruhe zu bewahren, und ein scheinbares Stagnieren beobachtend abwarten zu können, ein Ausprobieren eigener Rechenwege zuzulassen und anzuregen. Jedoch darf dieses „produktive Abwarten“ nicht dazu führen, folgenschwere Brüche im Fundament zu ignorieren und Kinder in die Irre laufen zu lassen. Die Analyse und Interpretation von Rechenfehlern gehört zu einer qualifizierten Begleitung der Lernentwicklung im Mathematikunterricht.

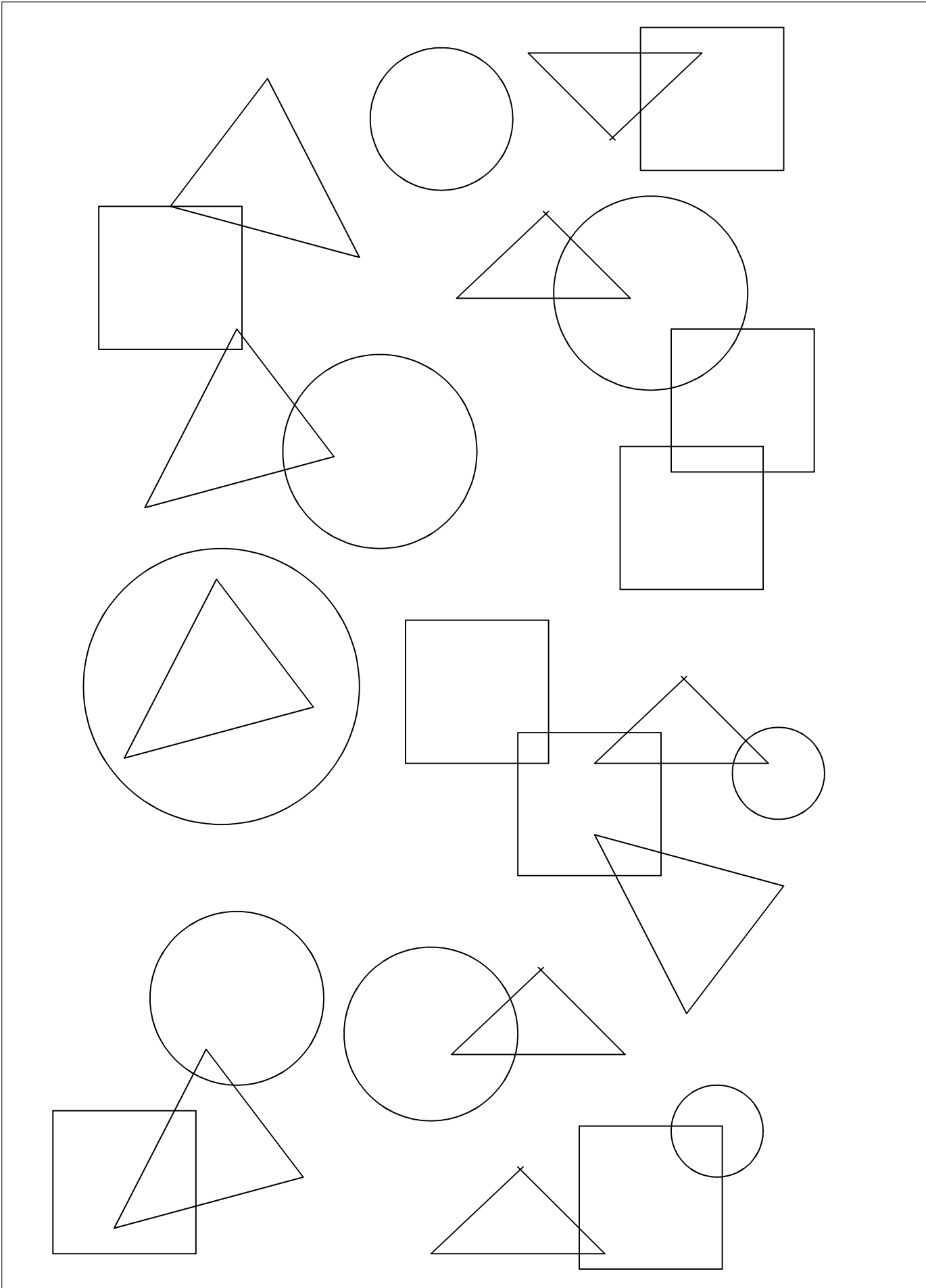
Zur oben zitierten „geeigneten Lernumgebung“ gehört deshalb unverzichtbar das Bereitstellen und Vermitteln von grundlegenden motivierenden Übungsmaterialien, mit denen die Kinder ihre basalen Fähigkeiten spielerisch festigen und stabilisieren können.

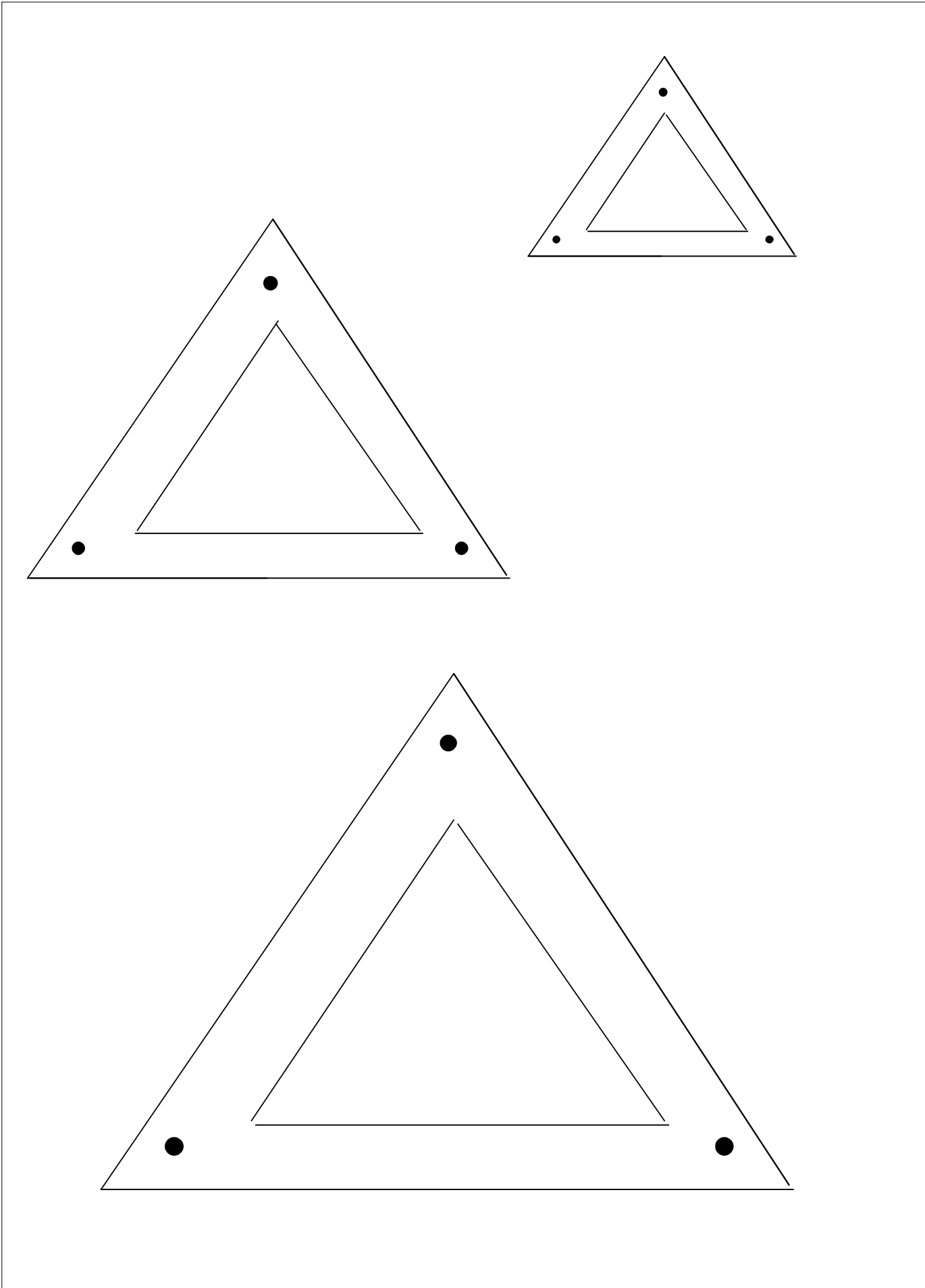
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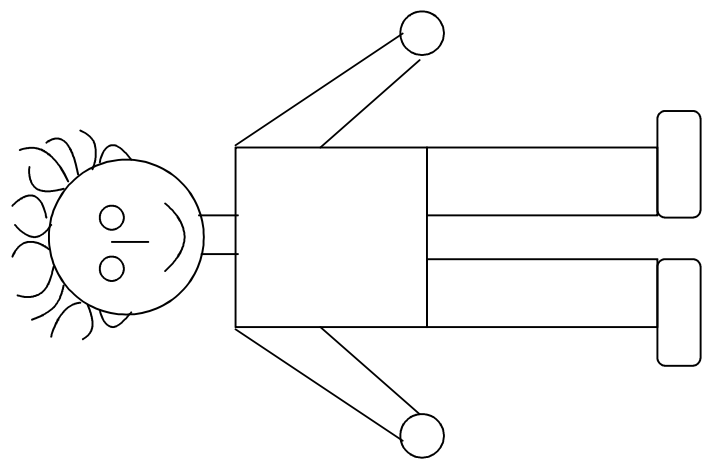
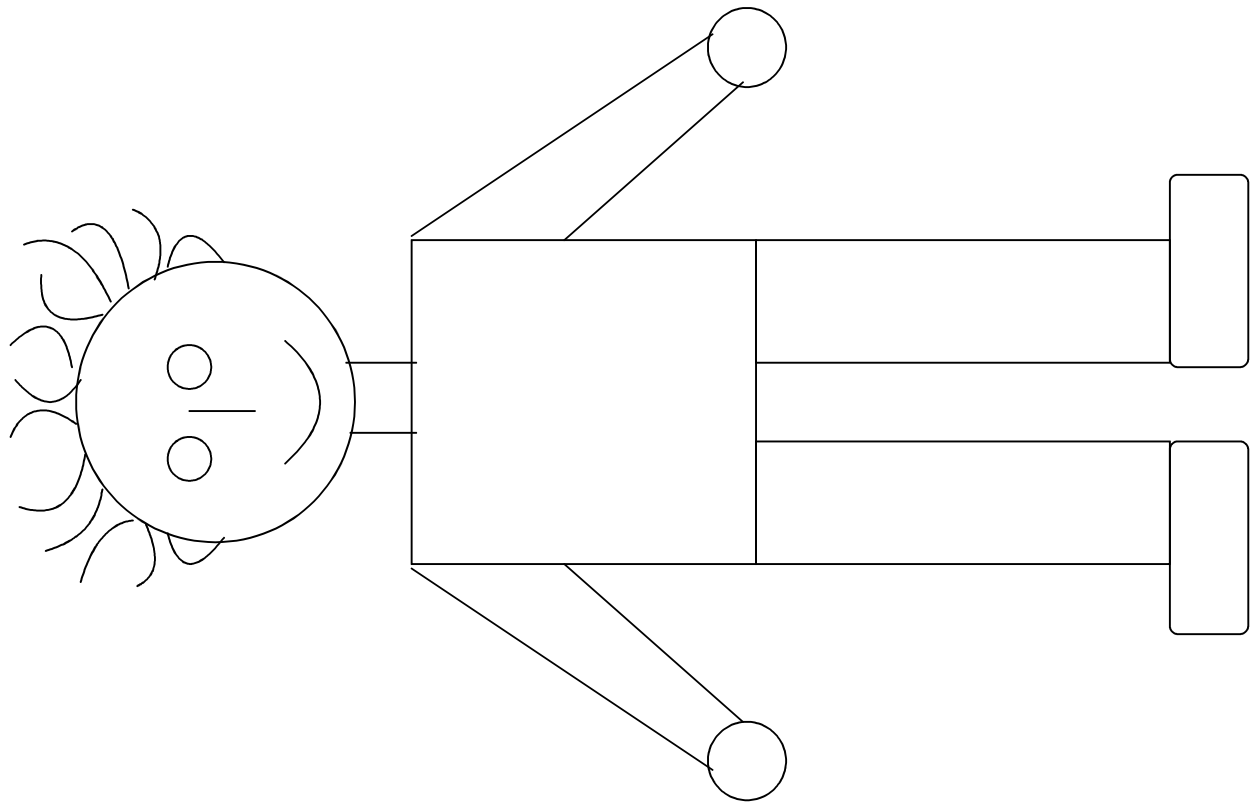
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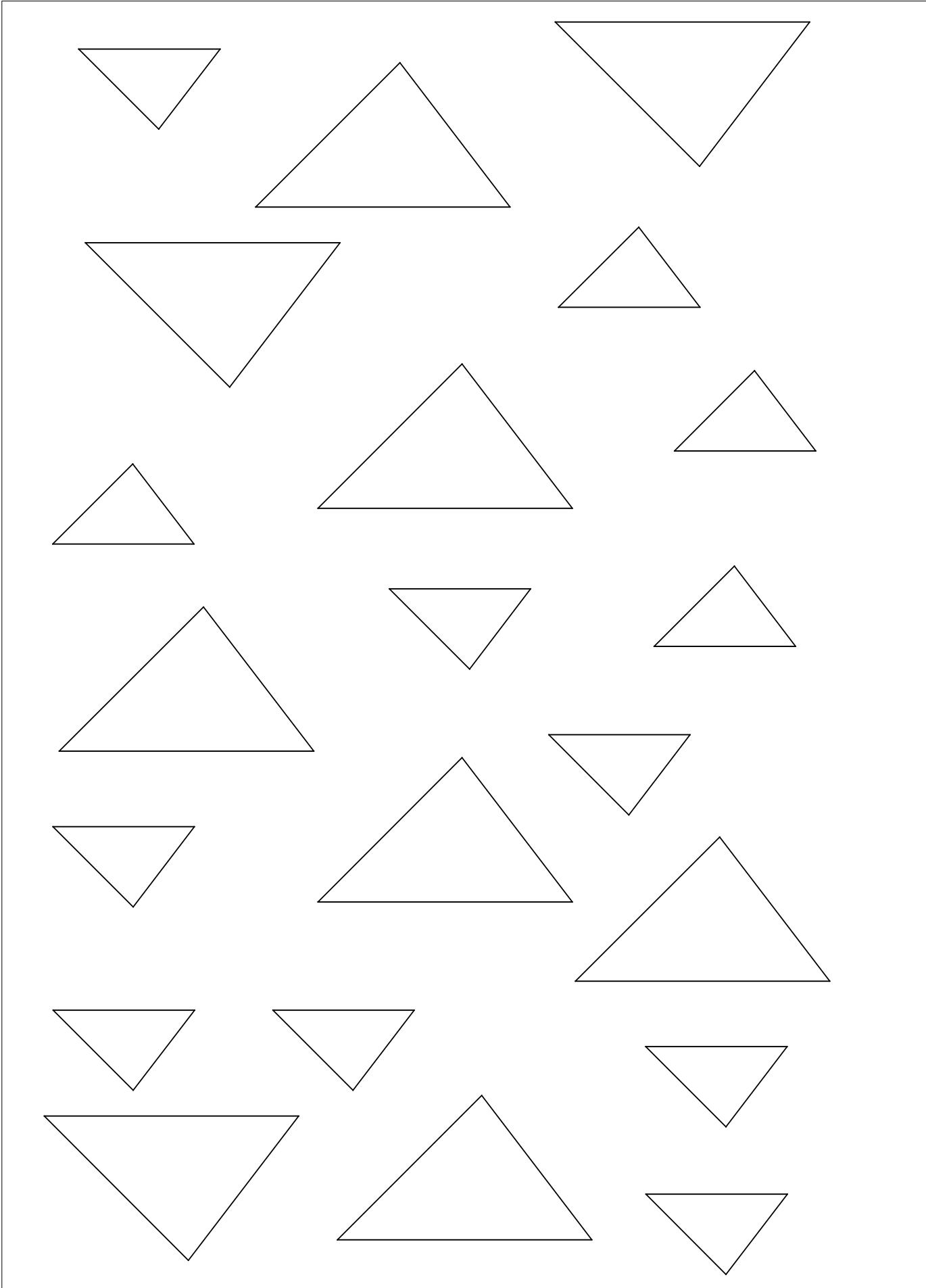


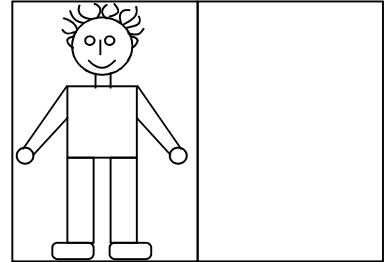
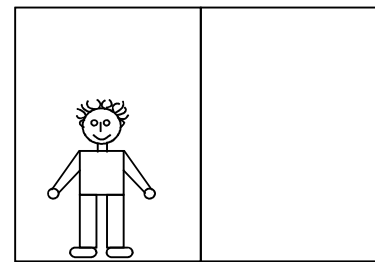
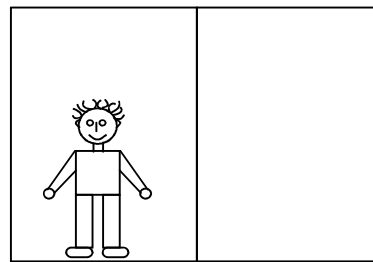
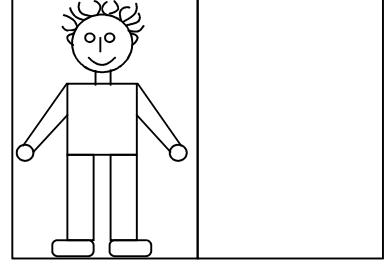
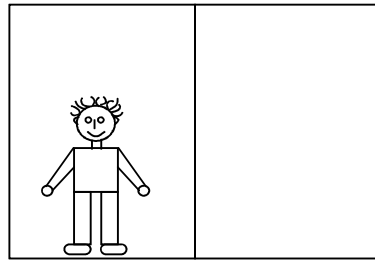
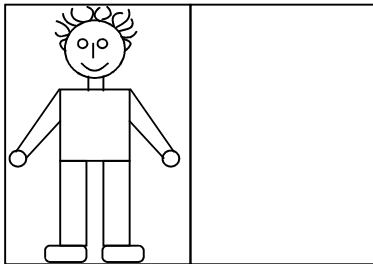
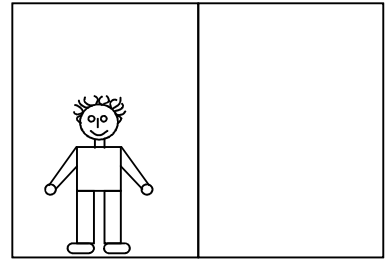
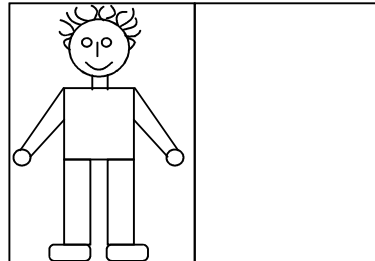
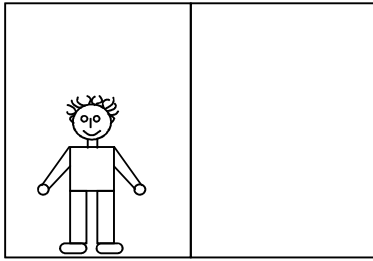
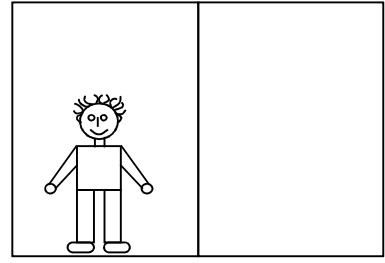
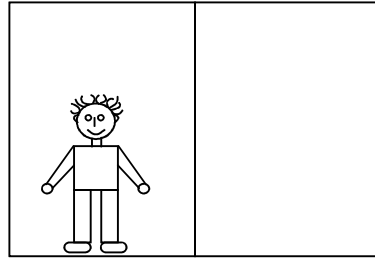
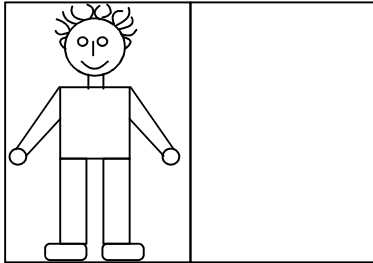
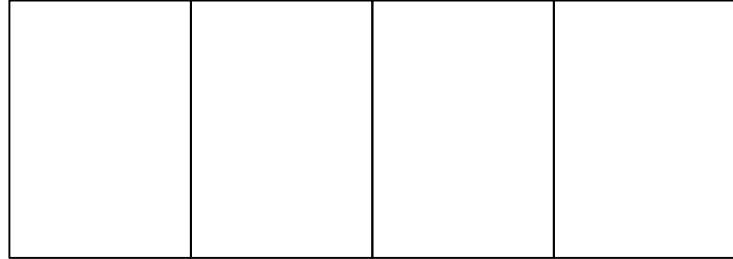
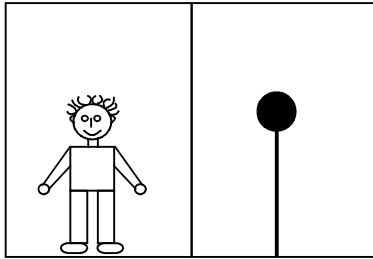
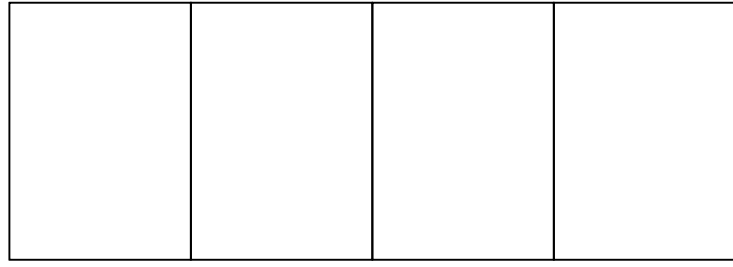
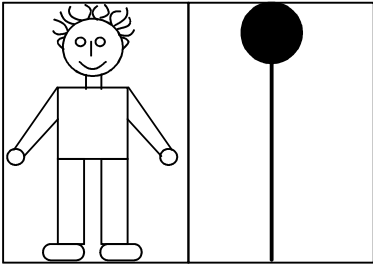






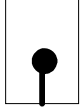






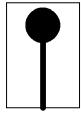


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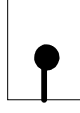


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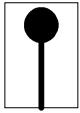




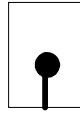
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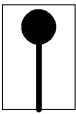
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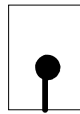
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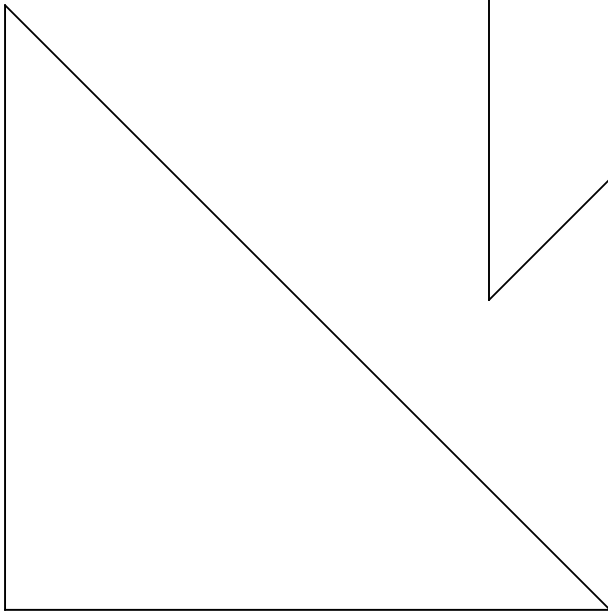


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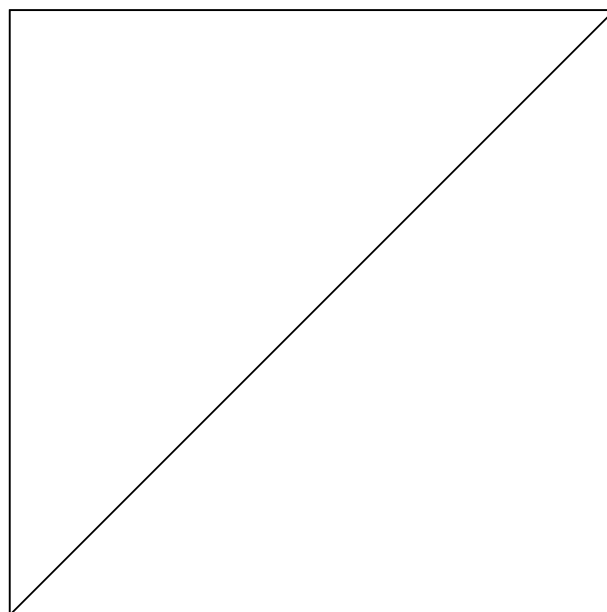


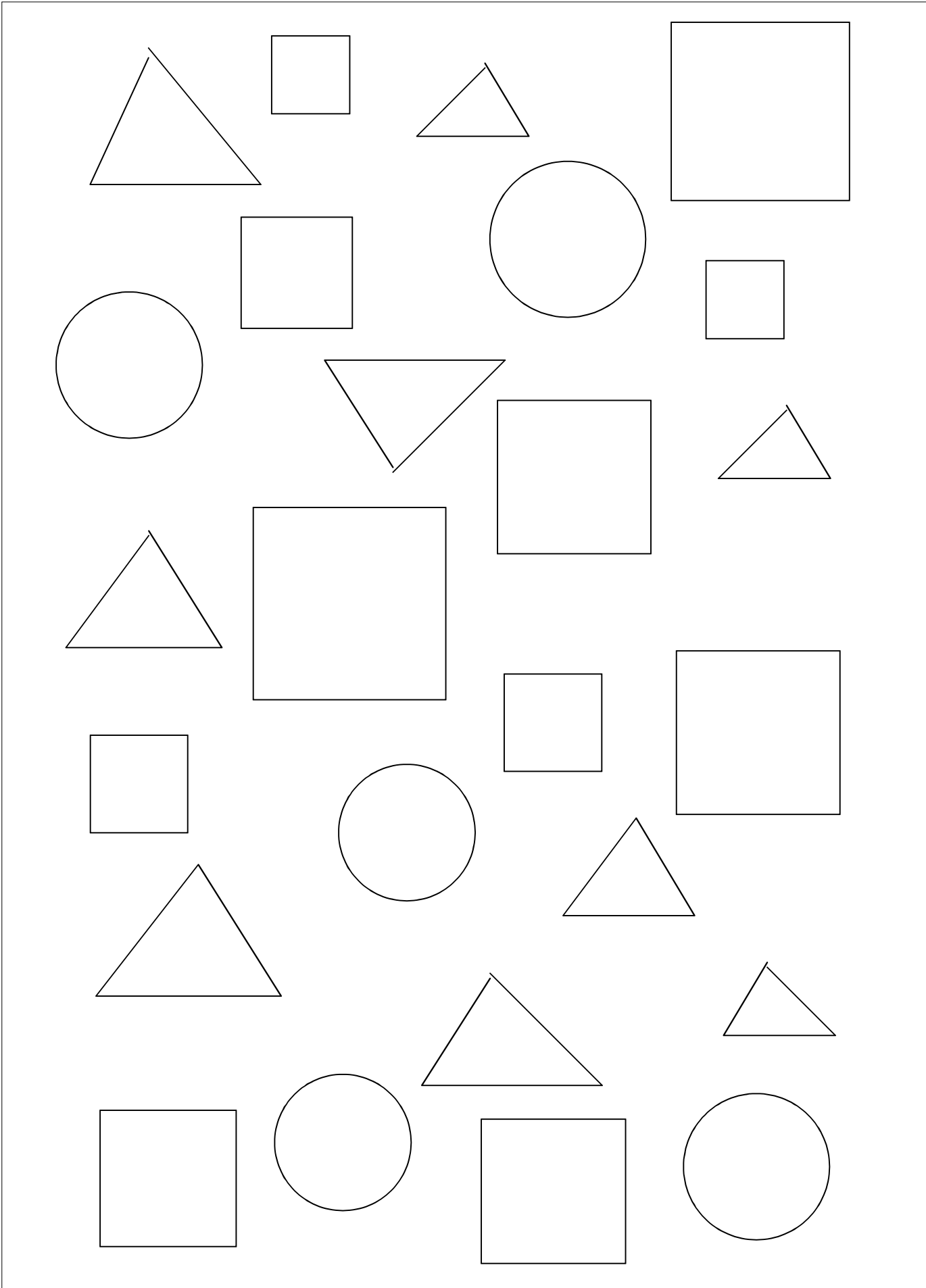
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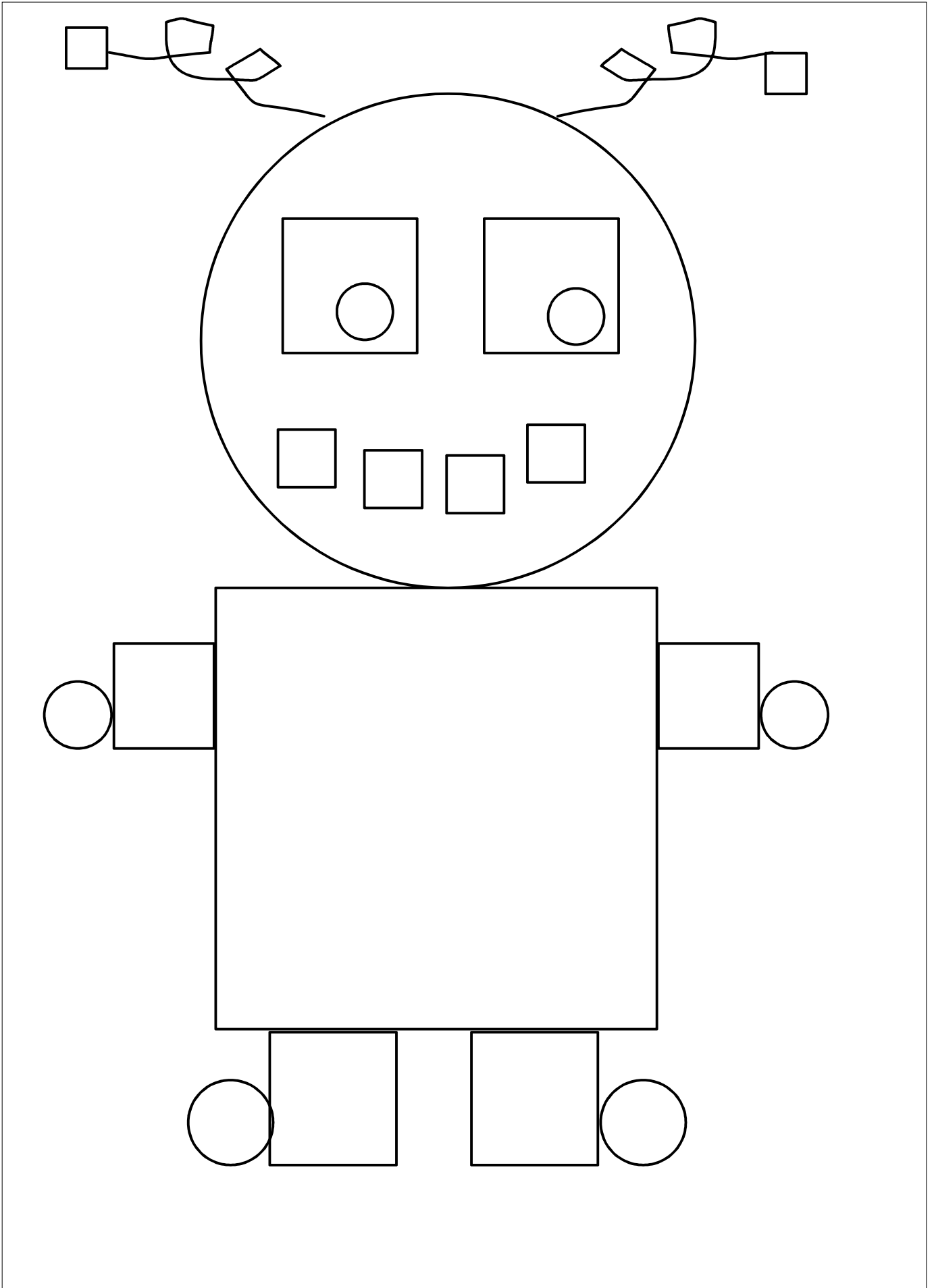
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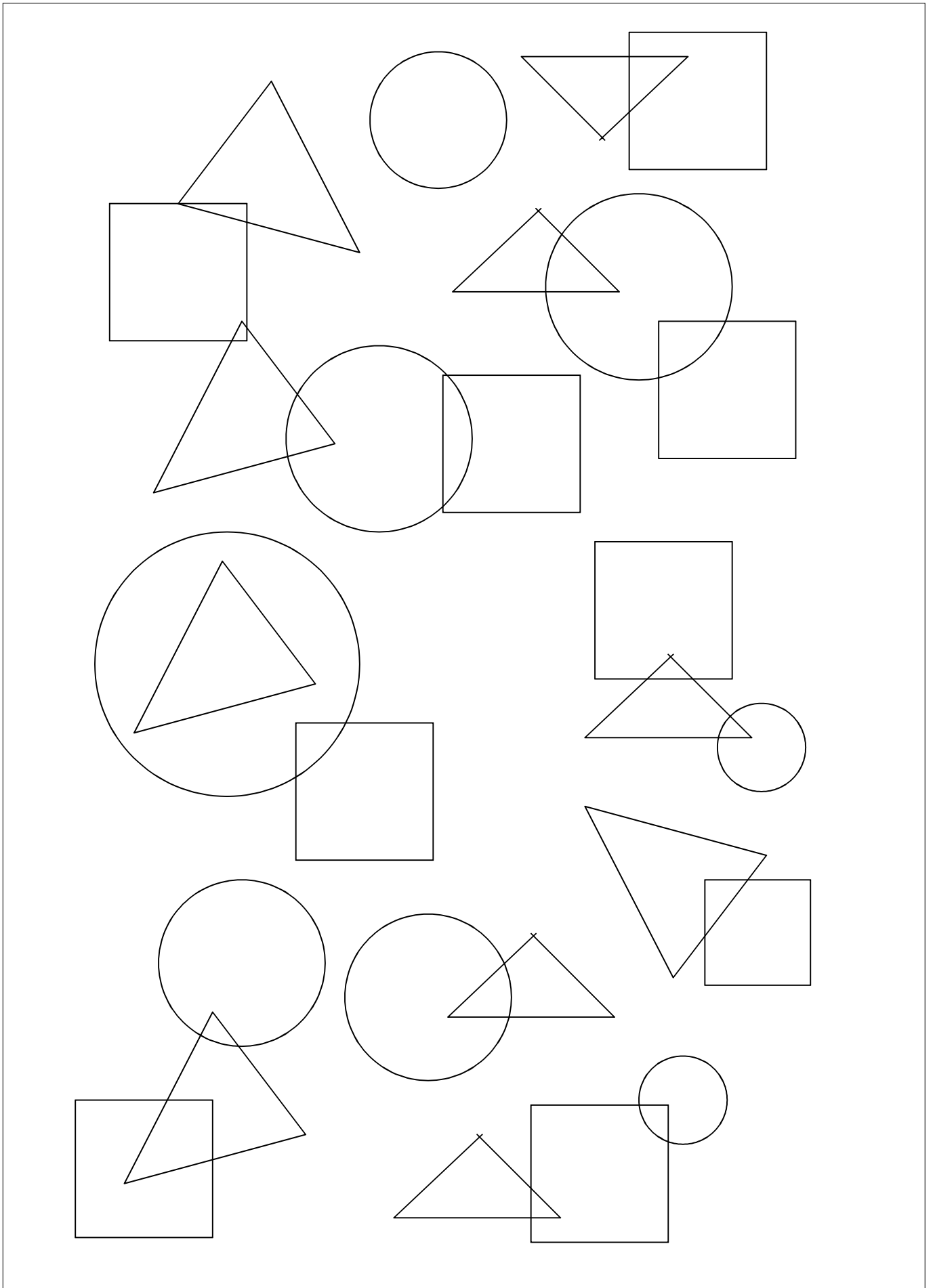


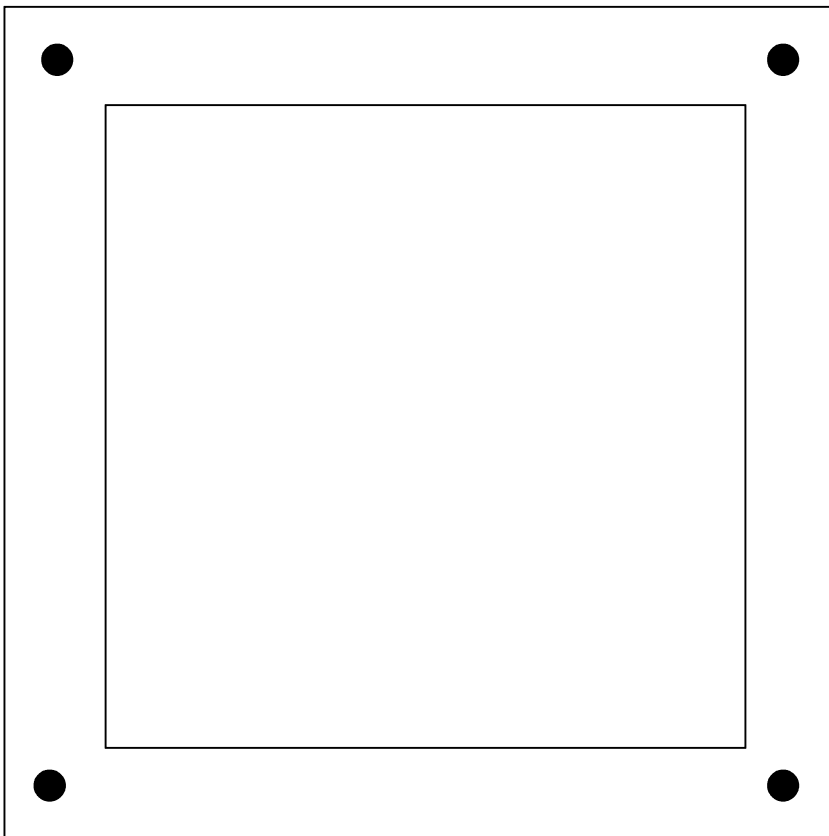
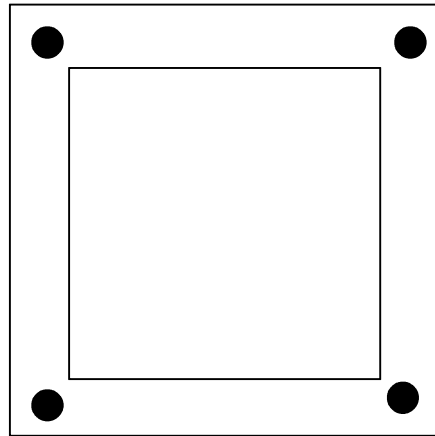
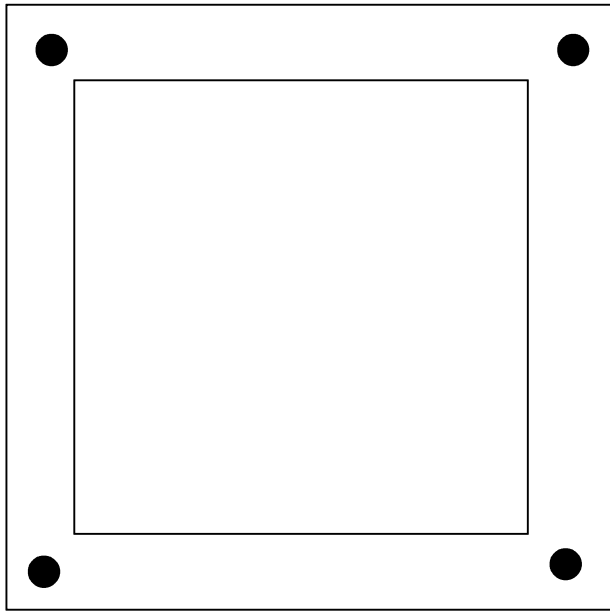
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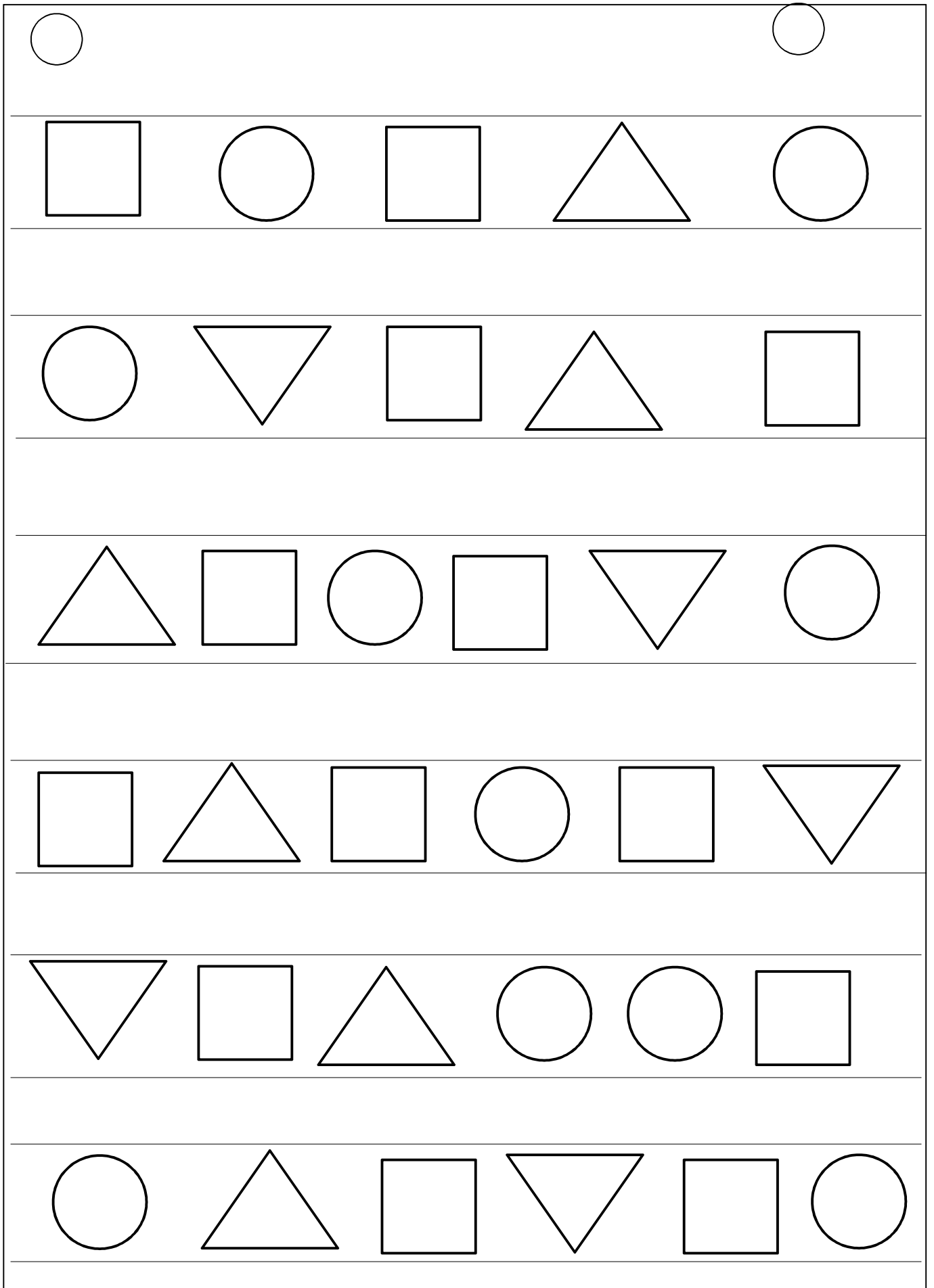


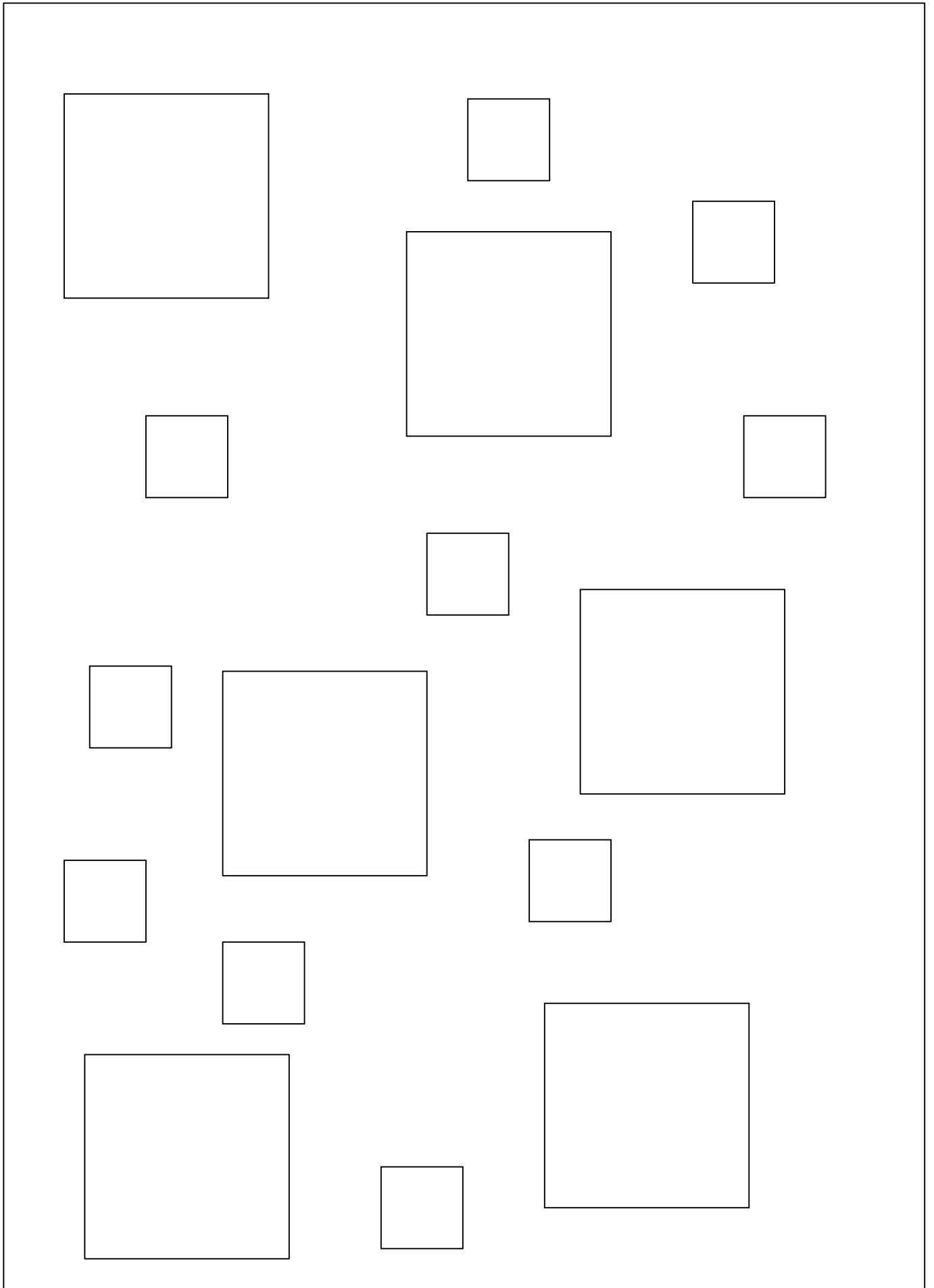


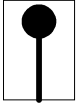




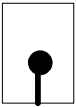
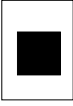




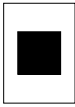






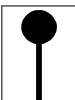

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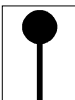
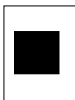


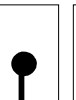

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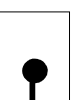

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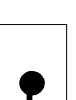

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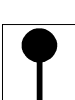

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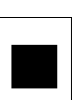
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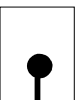

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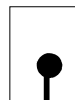
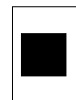
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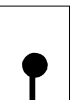
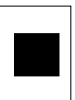
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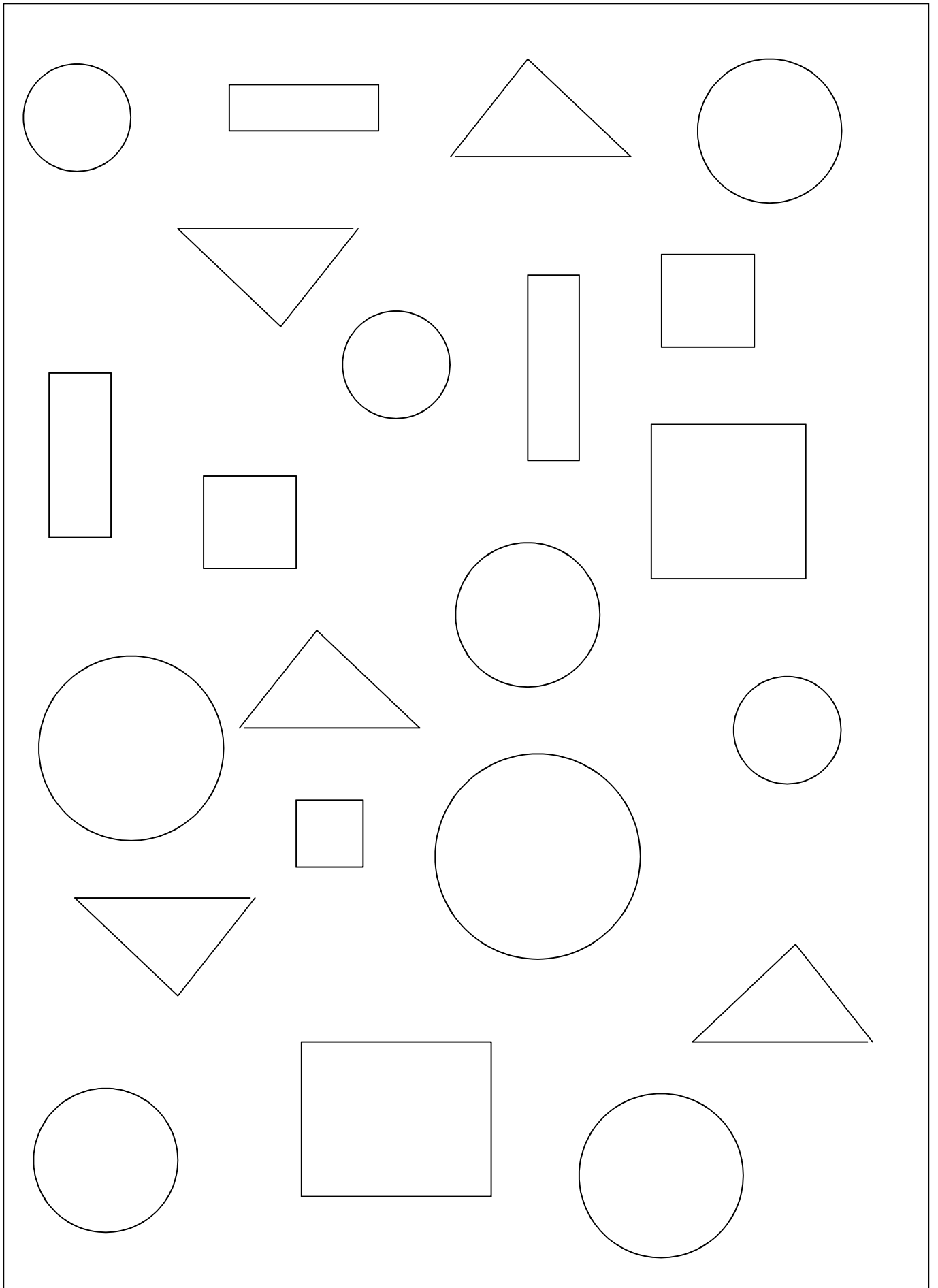
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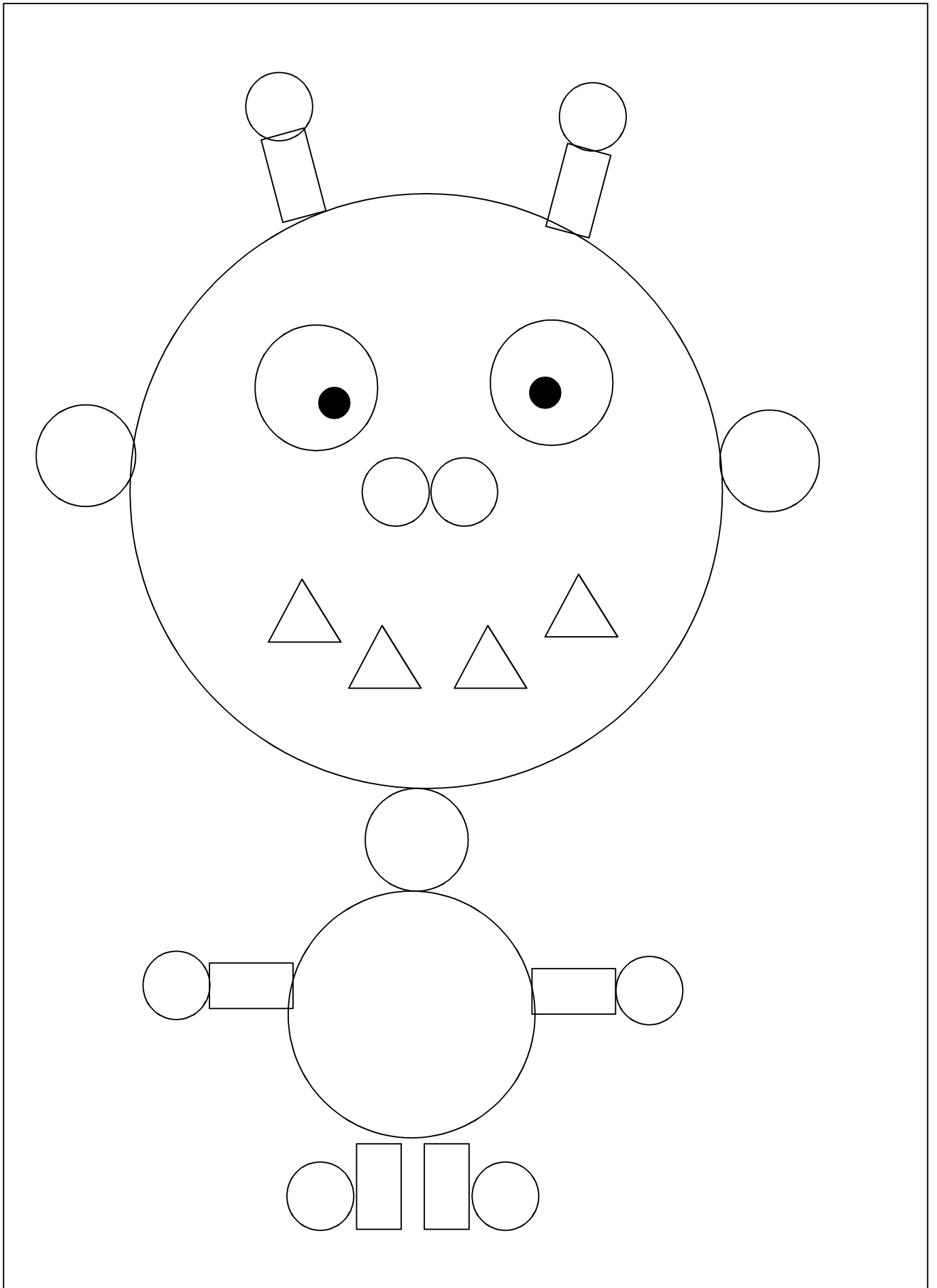
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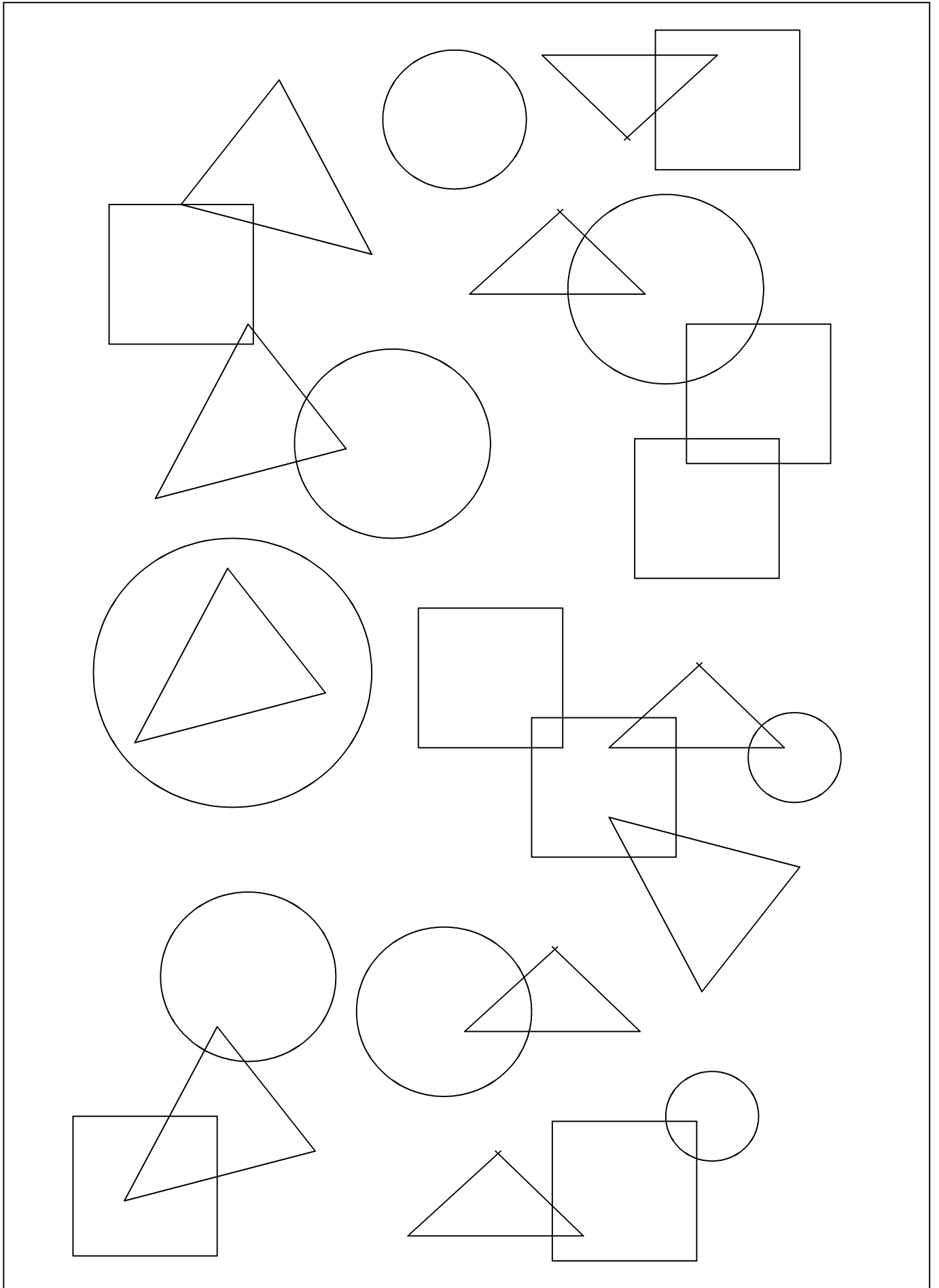
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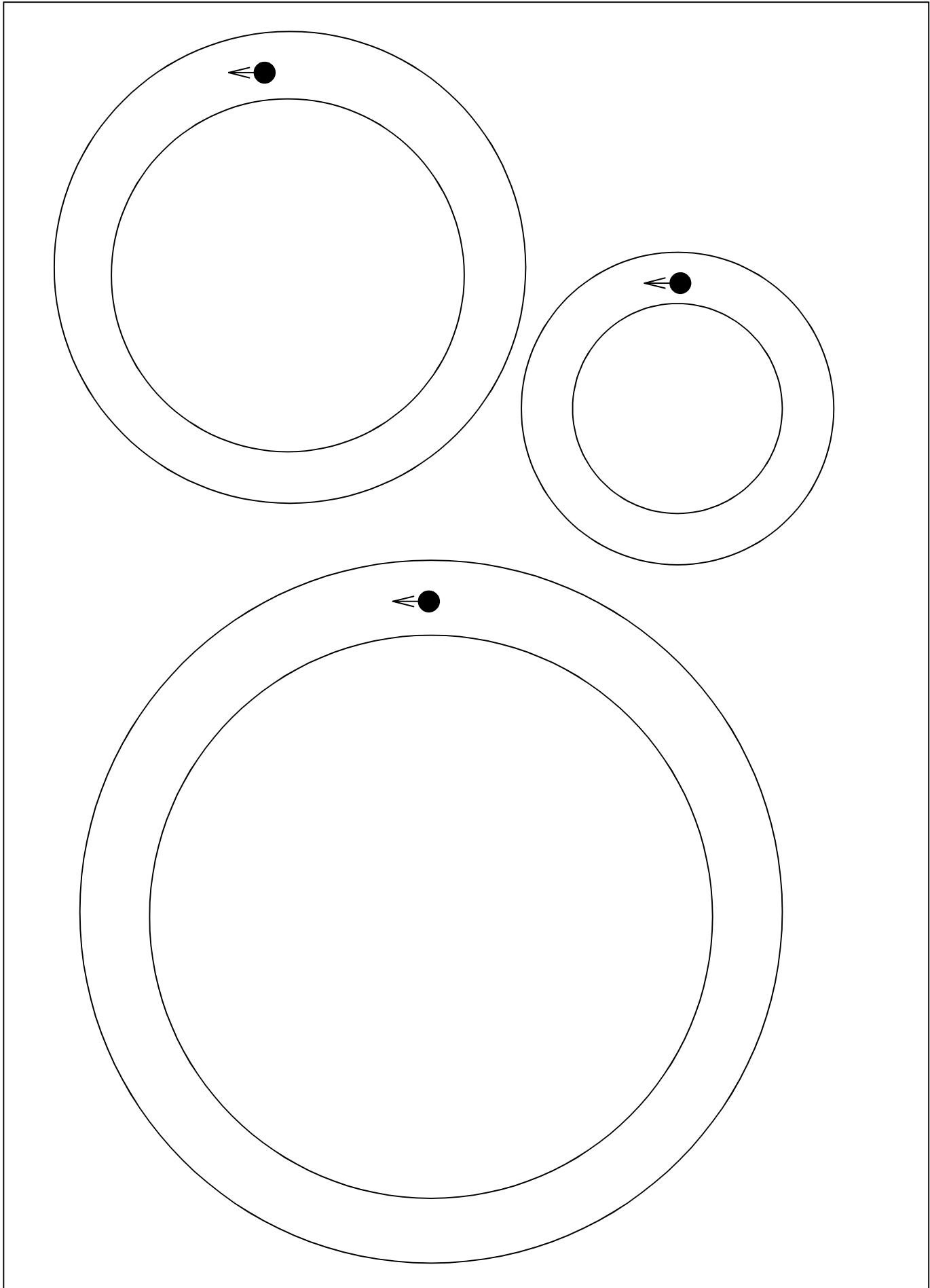
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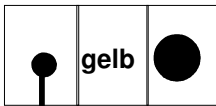
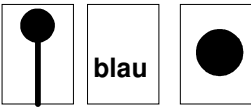
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












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

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

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

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

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

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
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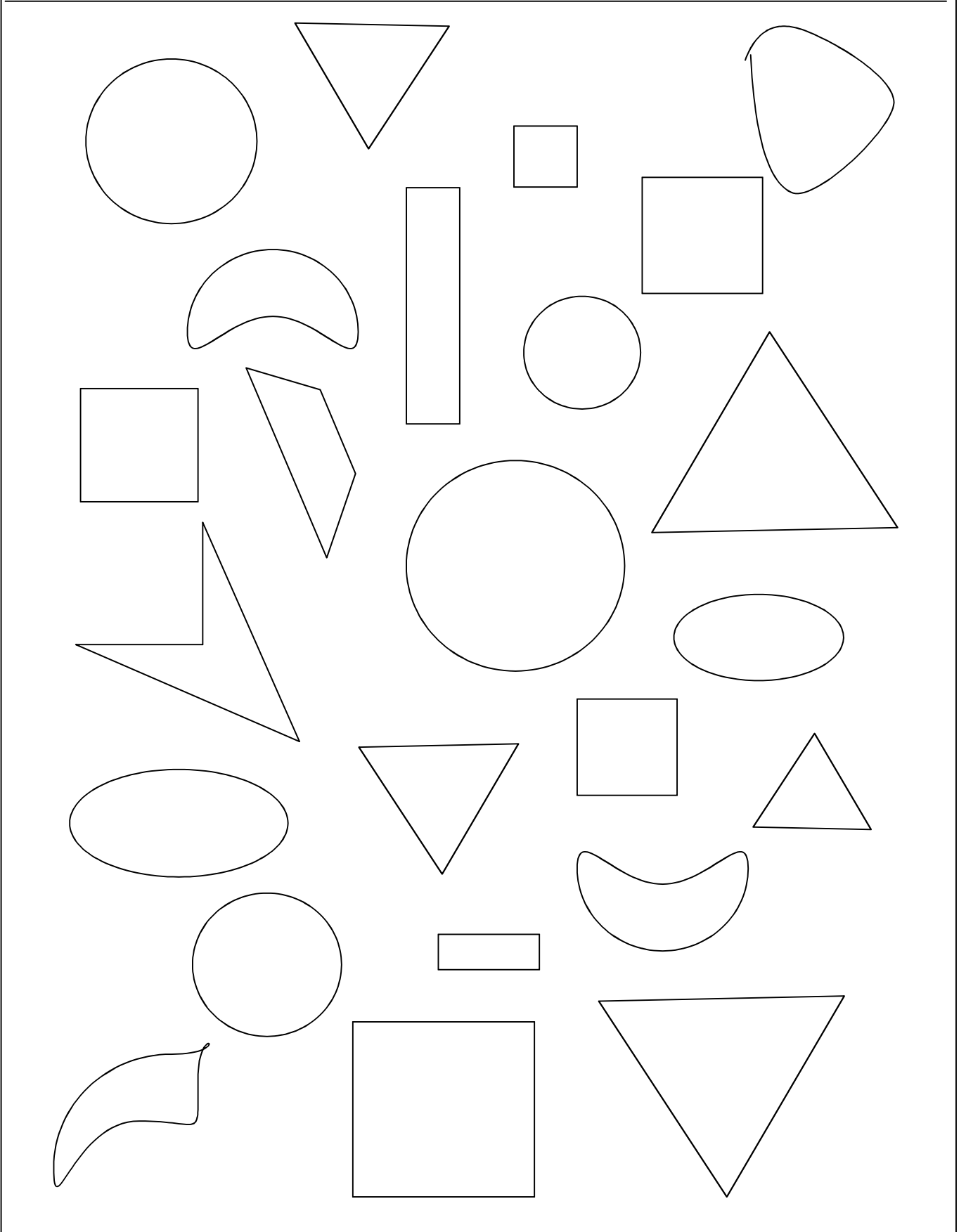
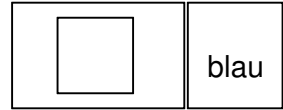
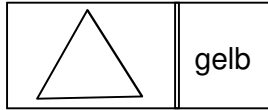
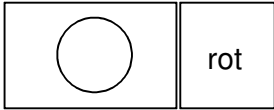
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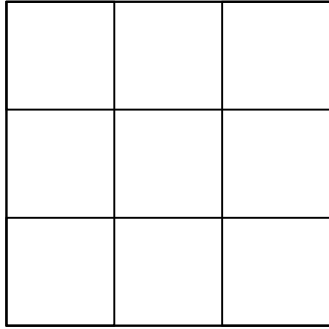
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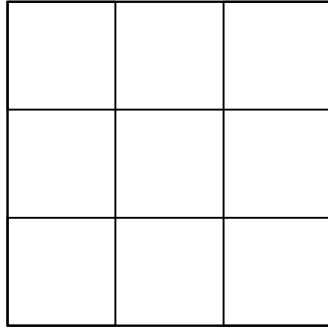
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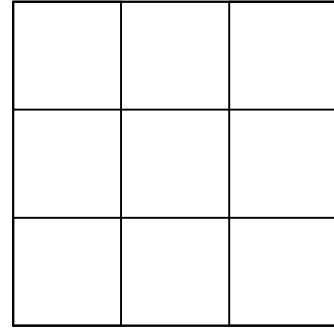
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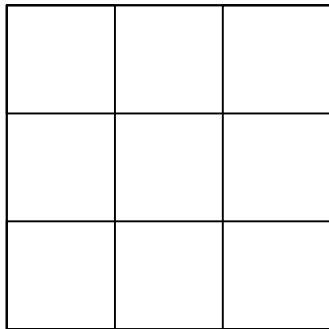
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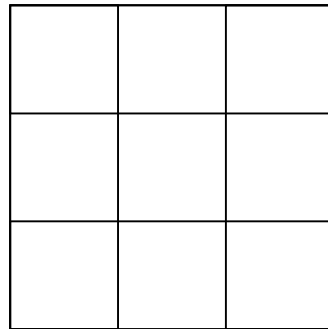
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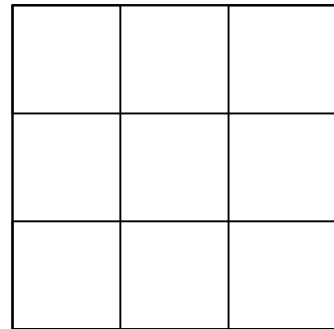
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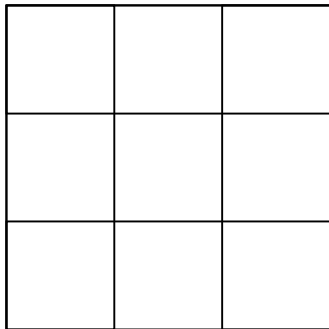
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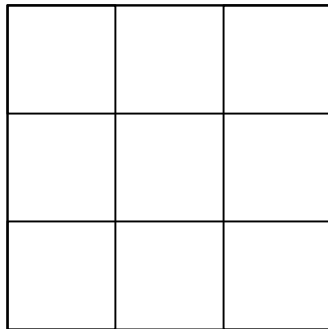
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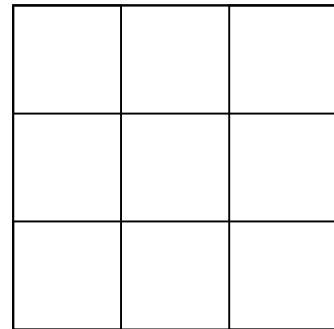
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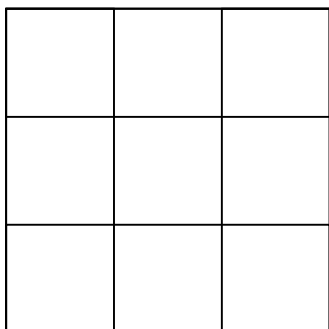
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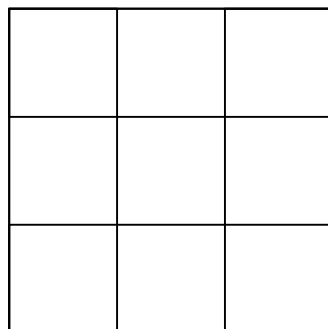
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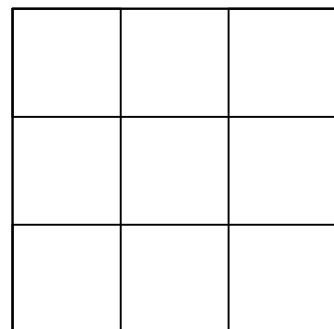
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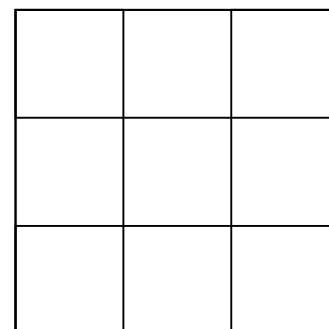
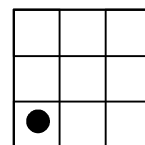
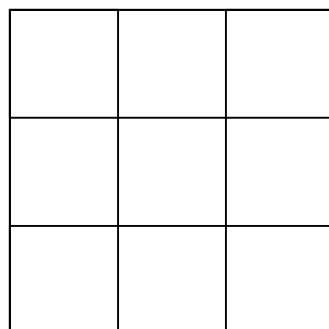
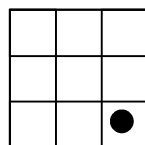
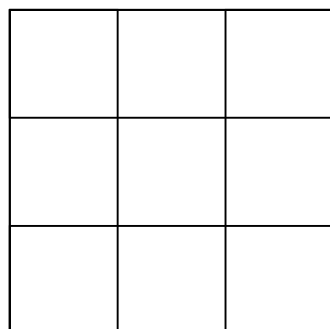
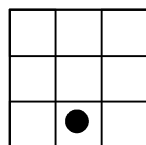
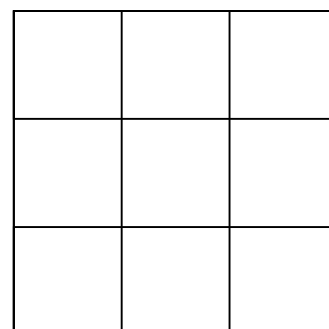
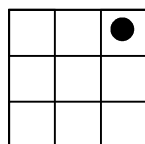
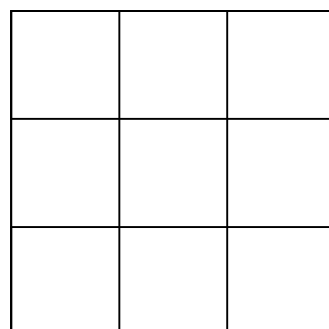
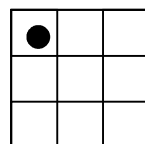
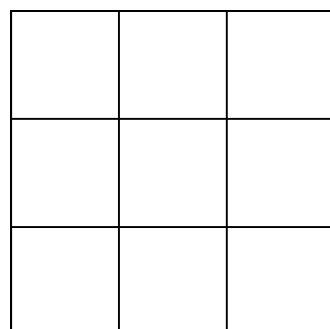
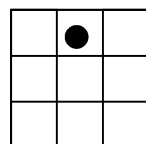
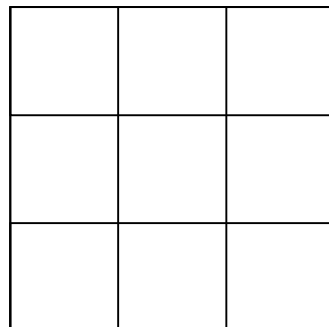
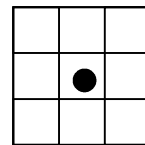
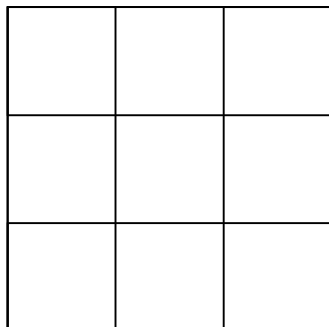
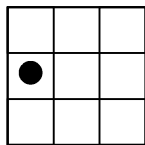
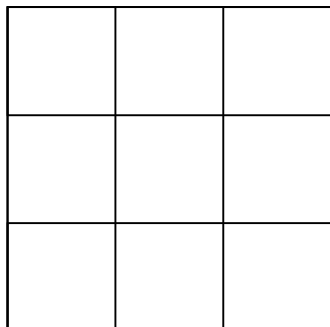
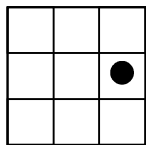


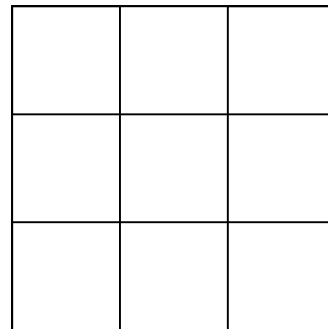
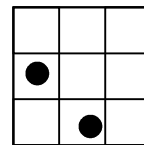
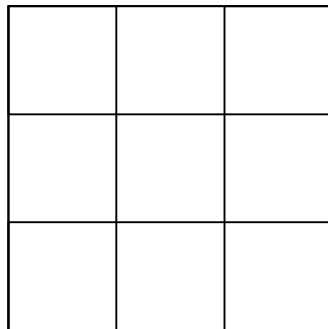
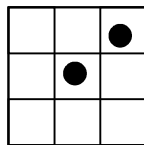
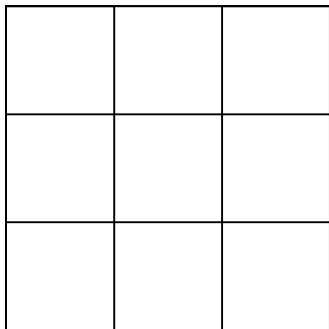
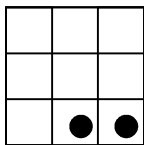
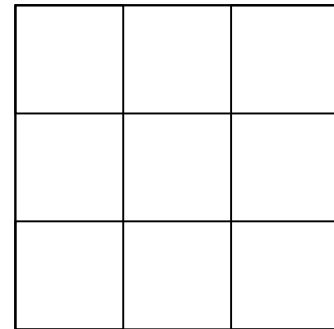
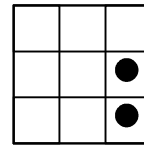
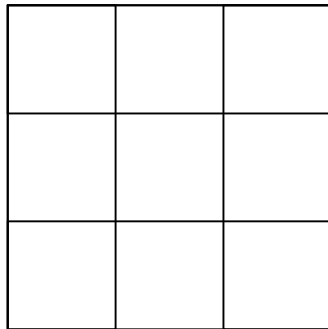
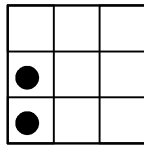
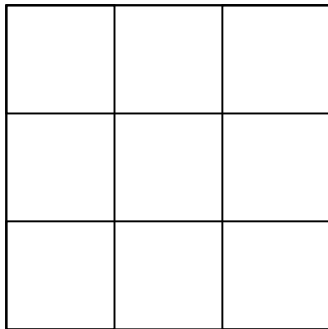
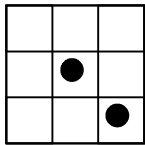
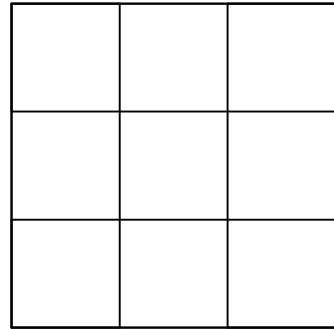
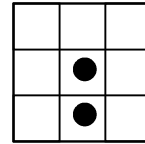
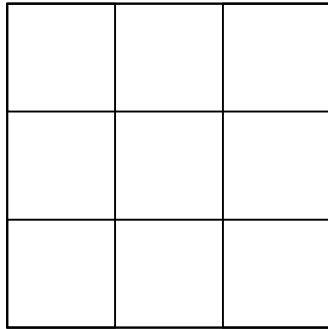
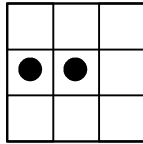
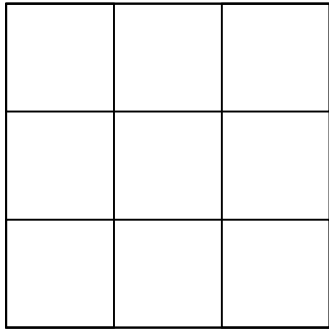
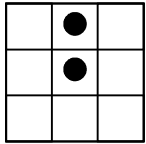
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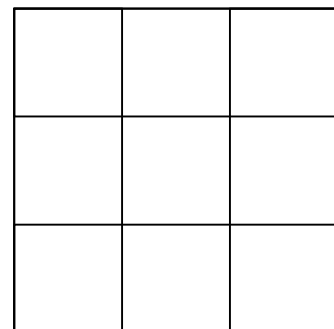
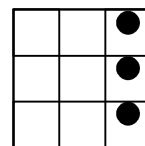
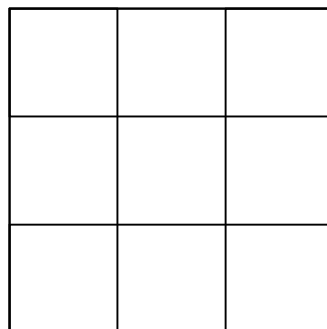
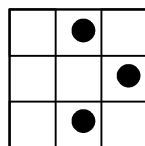
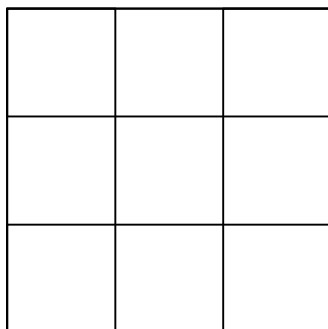
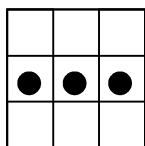
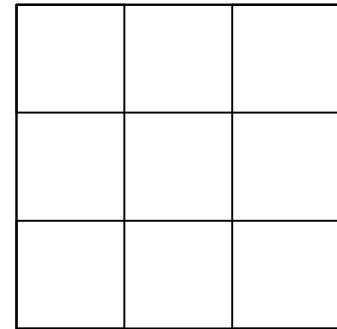
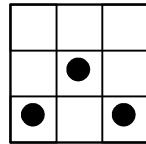
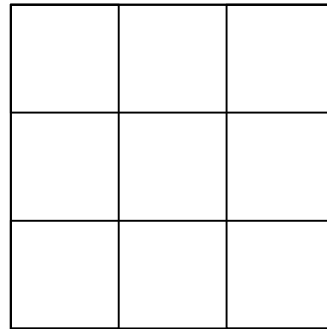
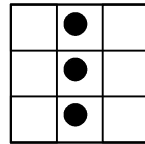
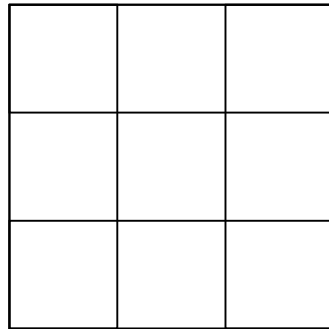
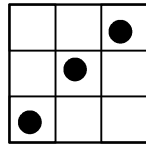
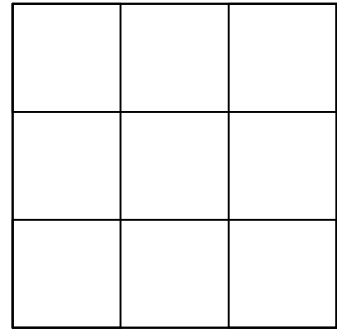
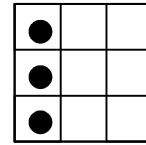
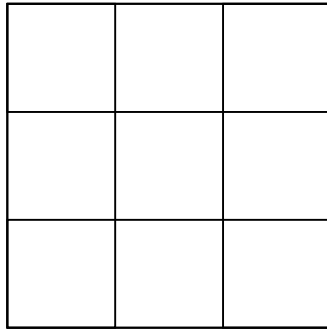
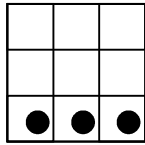
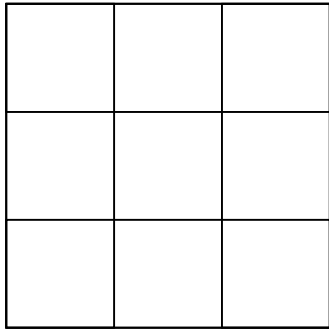
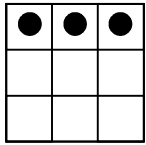


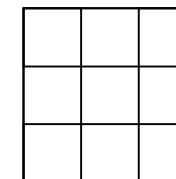
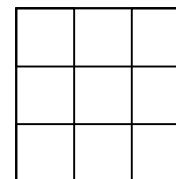
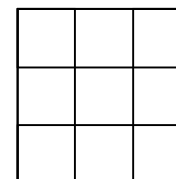
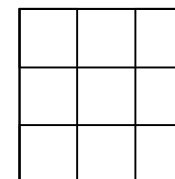
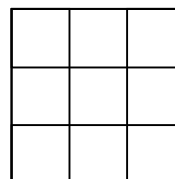
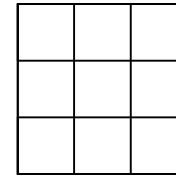
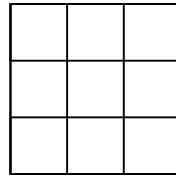
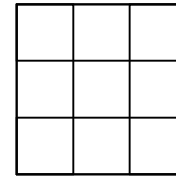
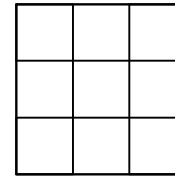
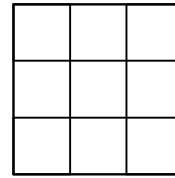
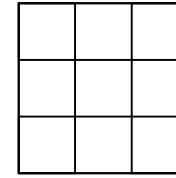
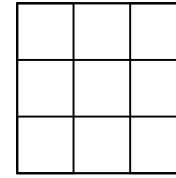
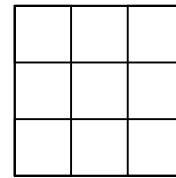
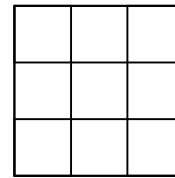
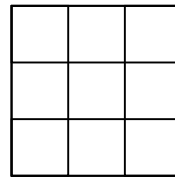
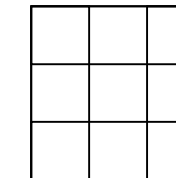
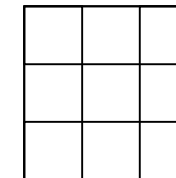
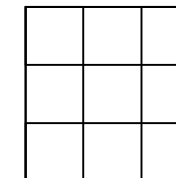
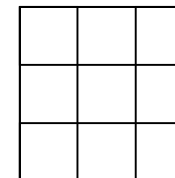
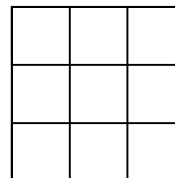
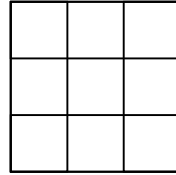
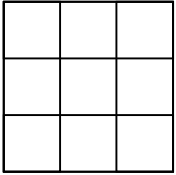
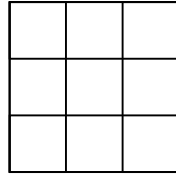
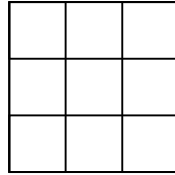
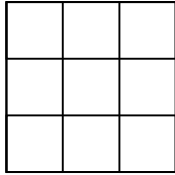
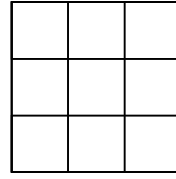
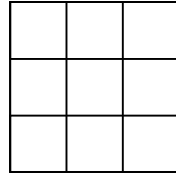
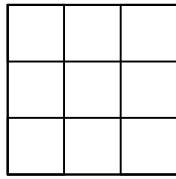
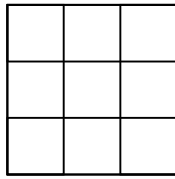
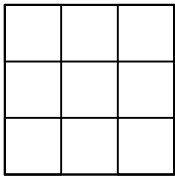
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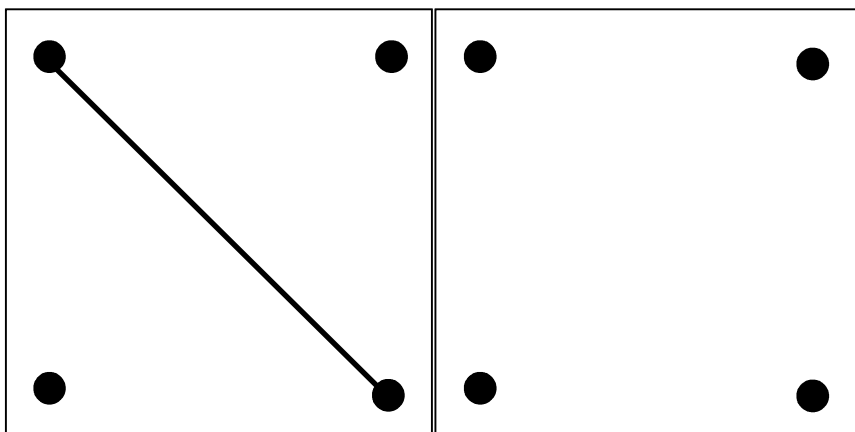
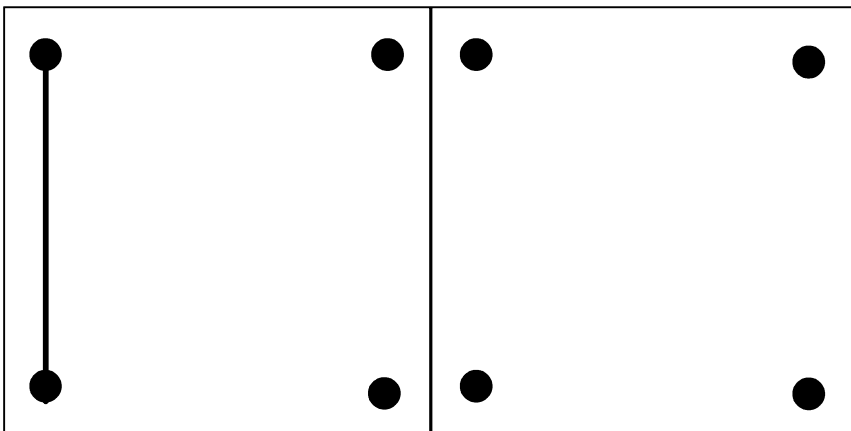
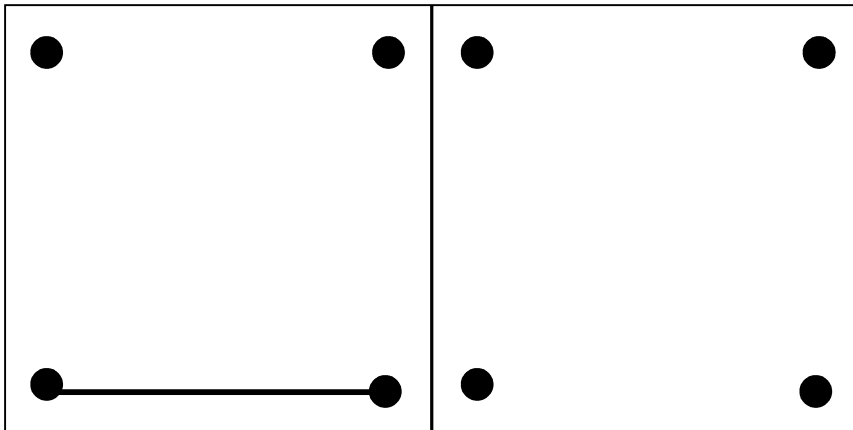
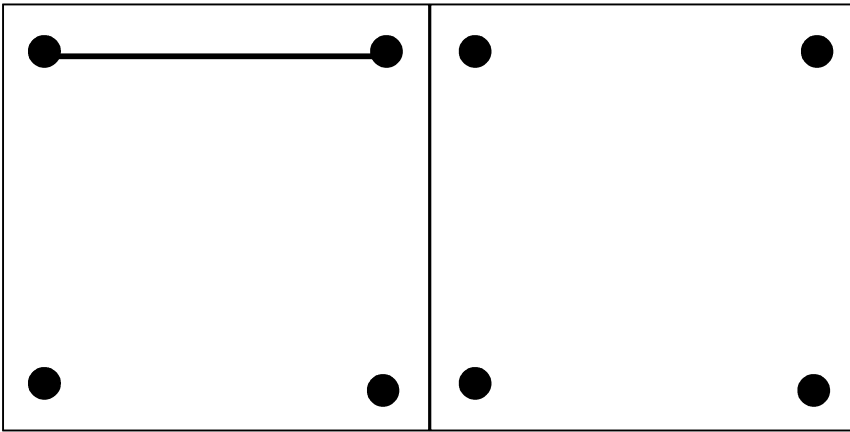


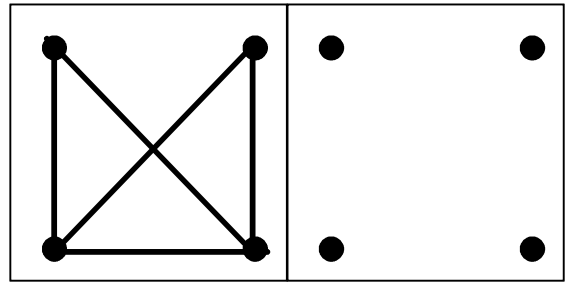
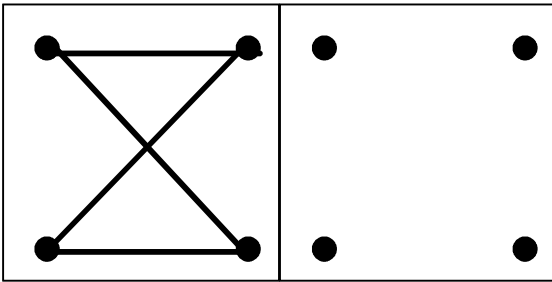
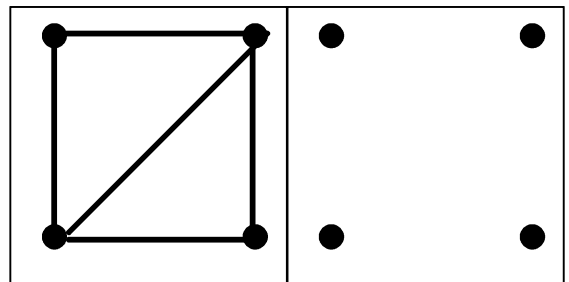
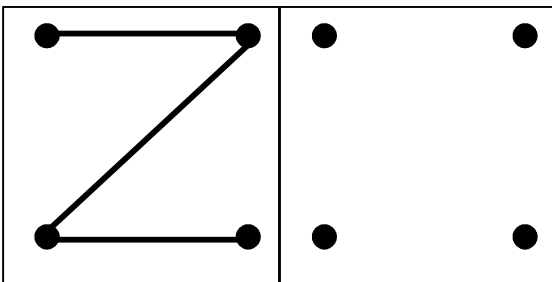
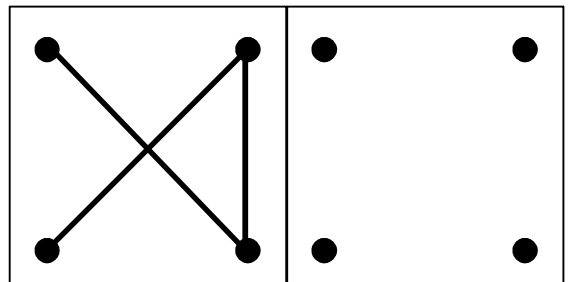
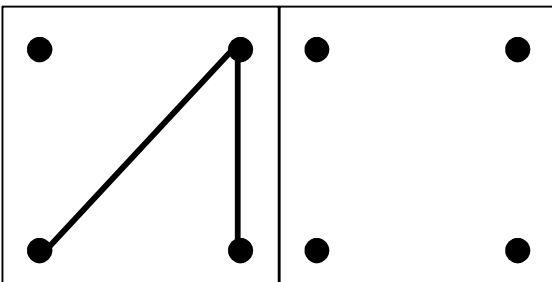
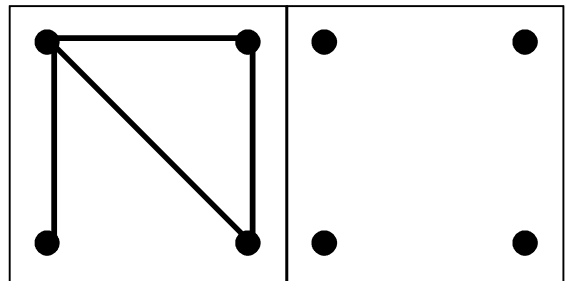
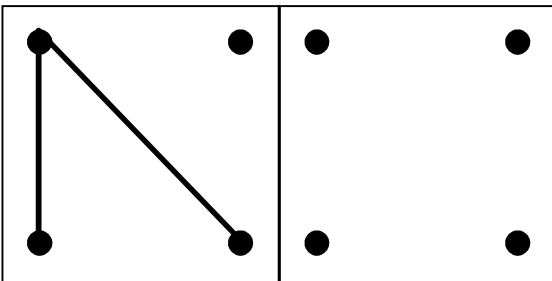
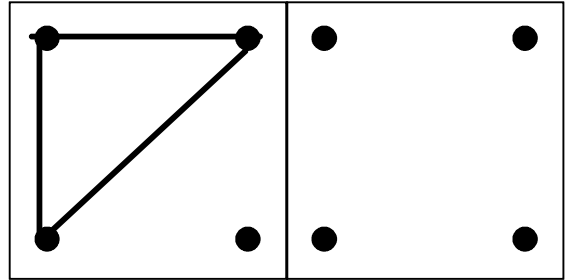
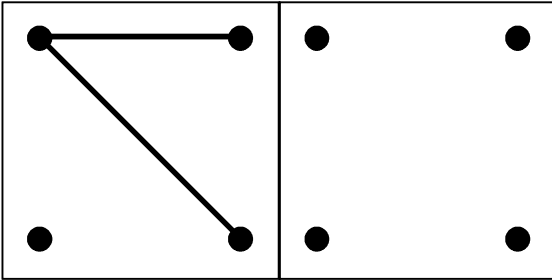
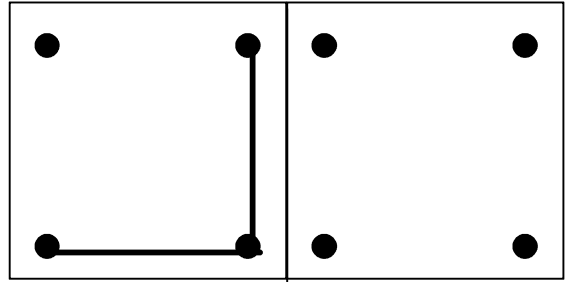
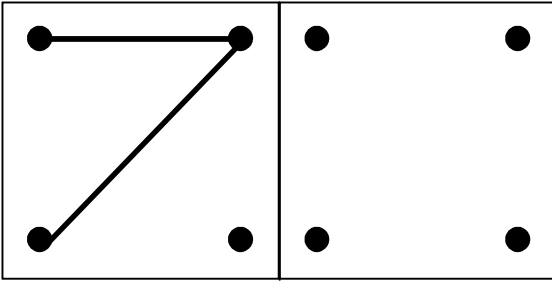


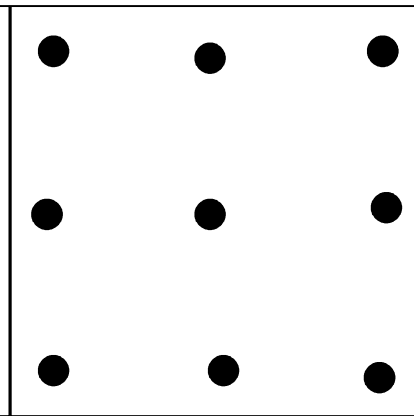
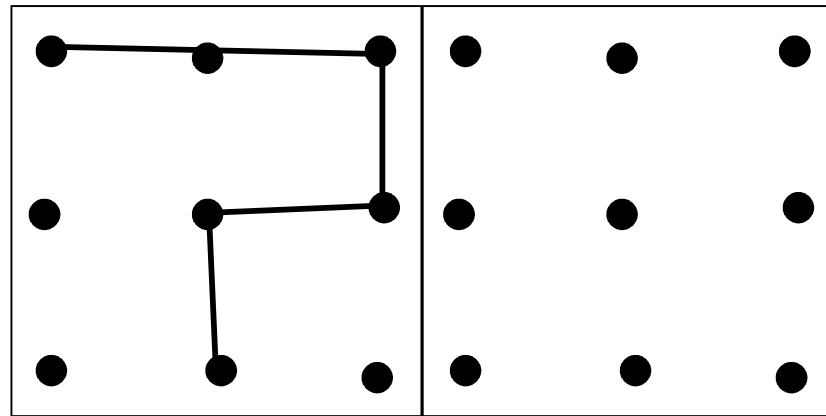
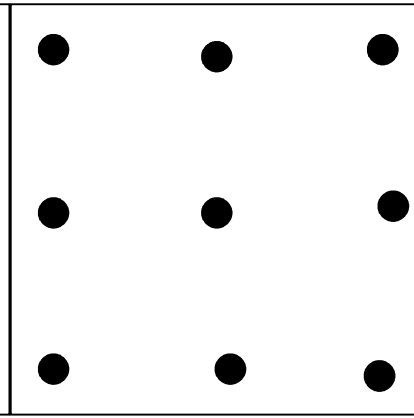
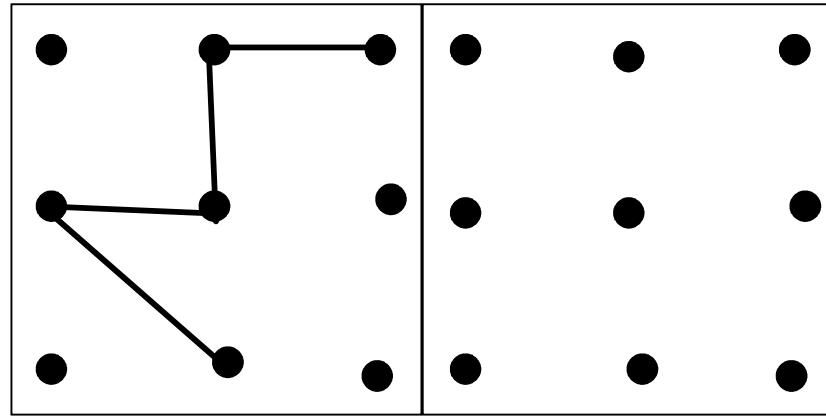
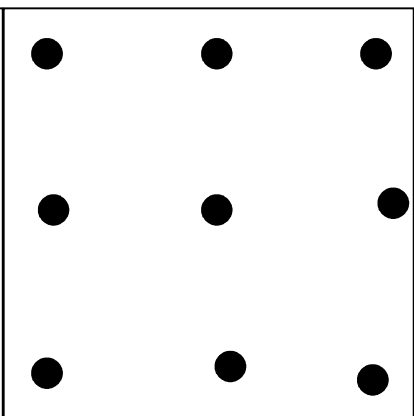
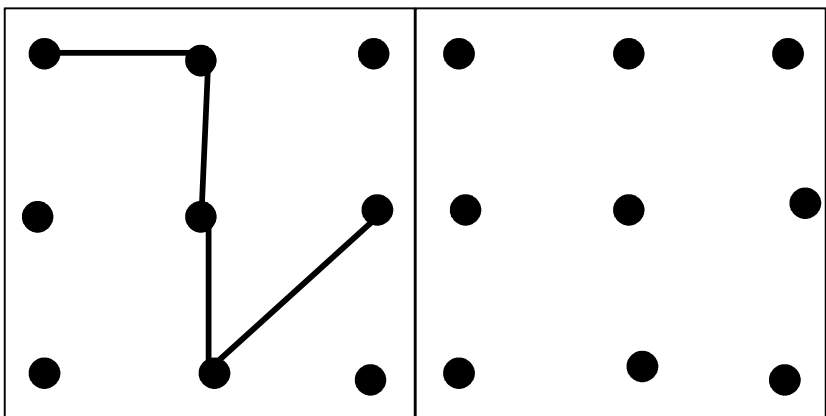
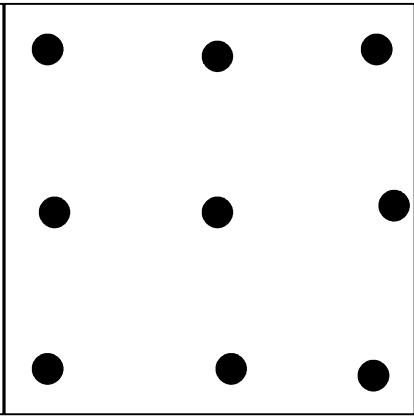
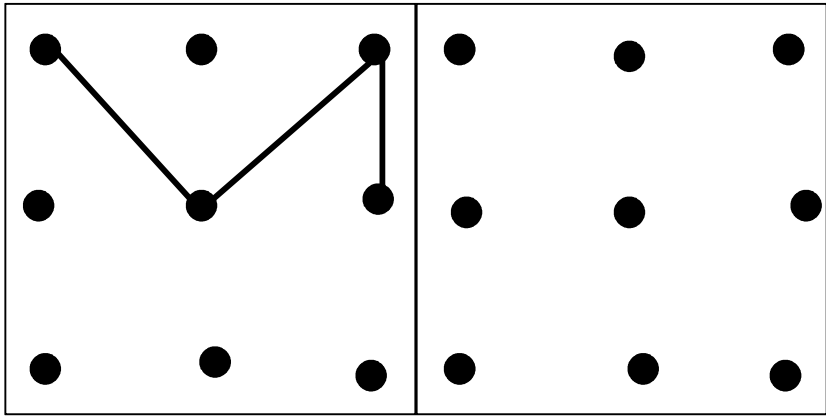


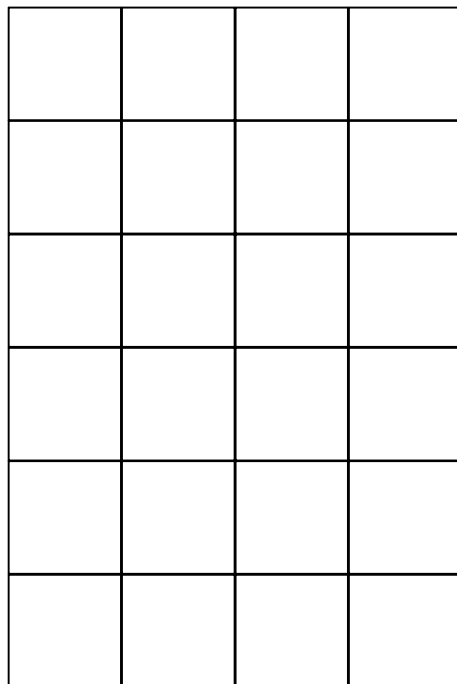
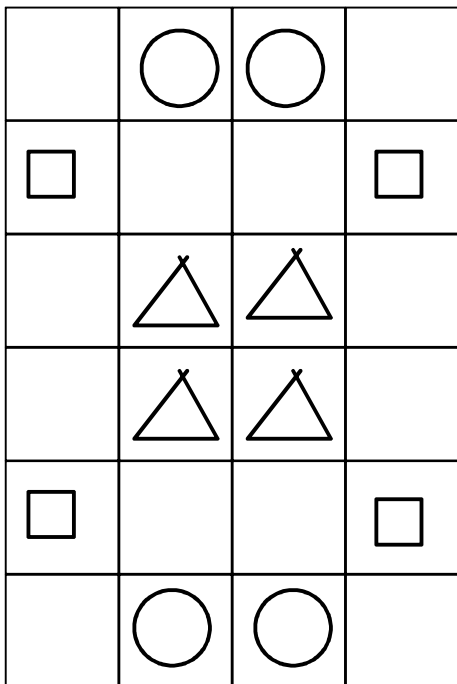
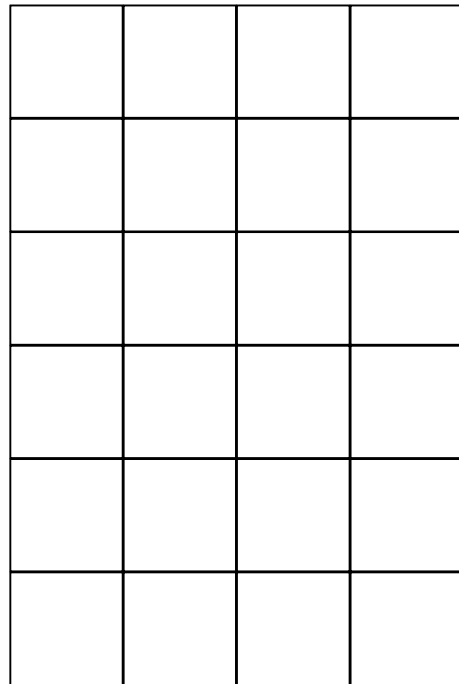
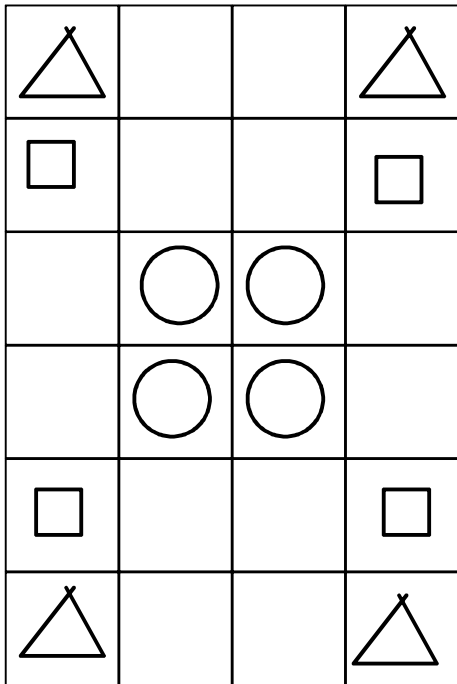


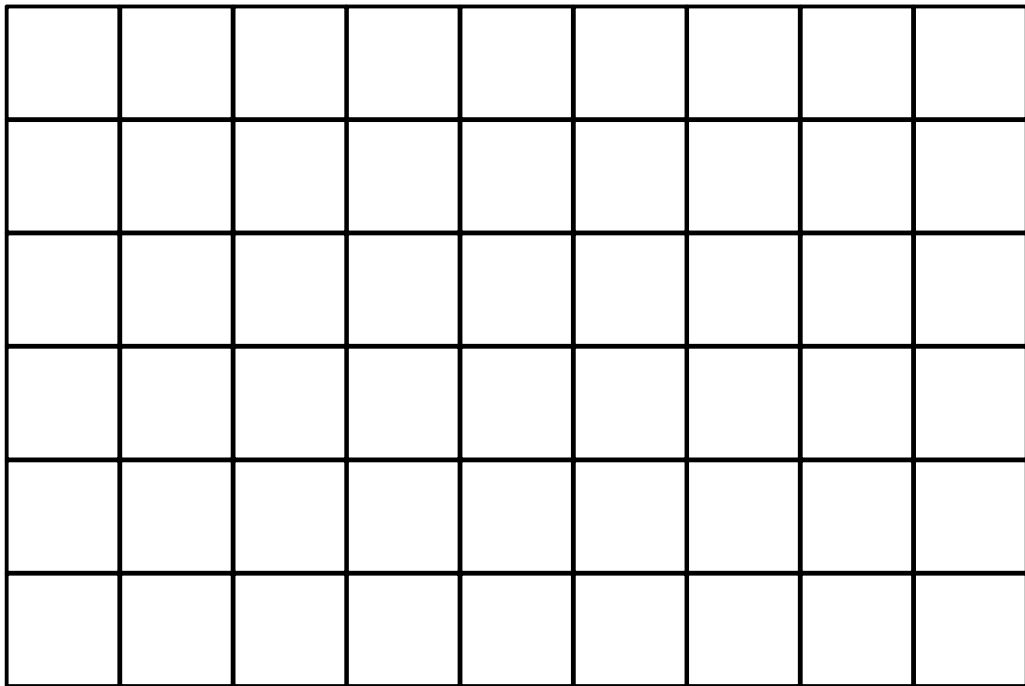
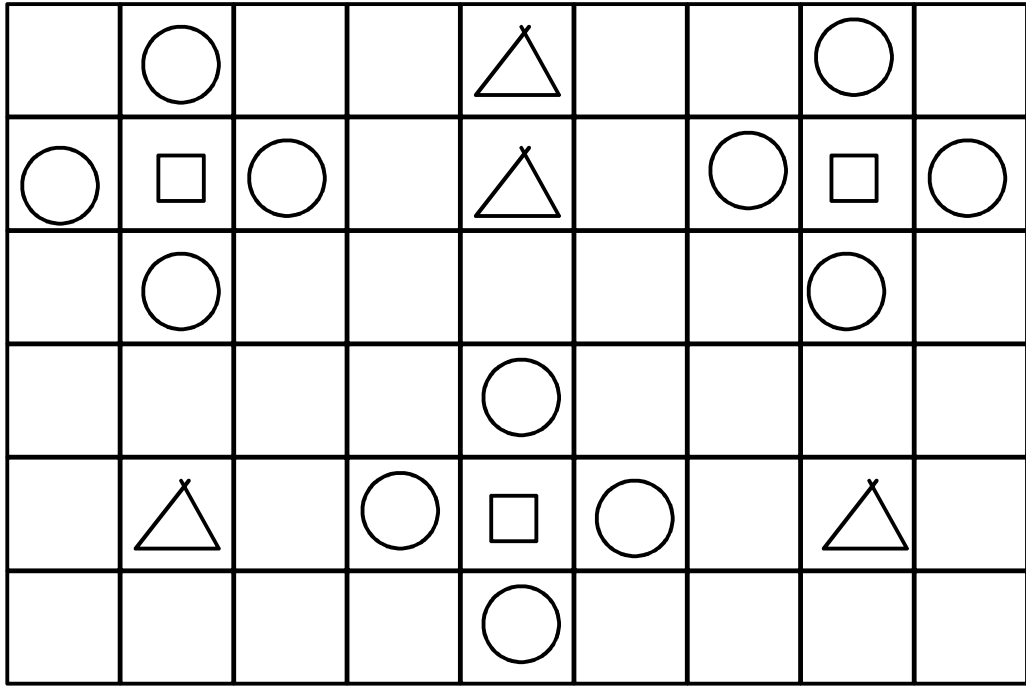




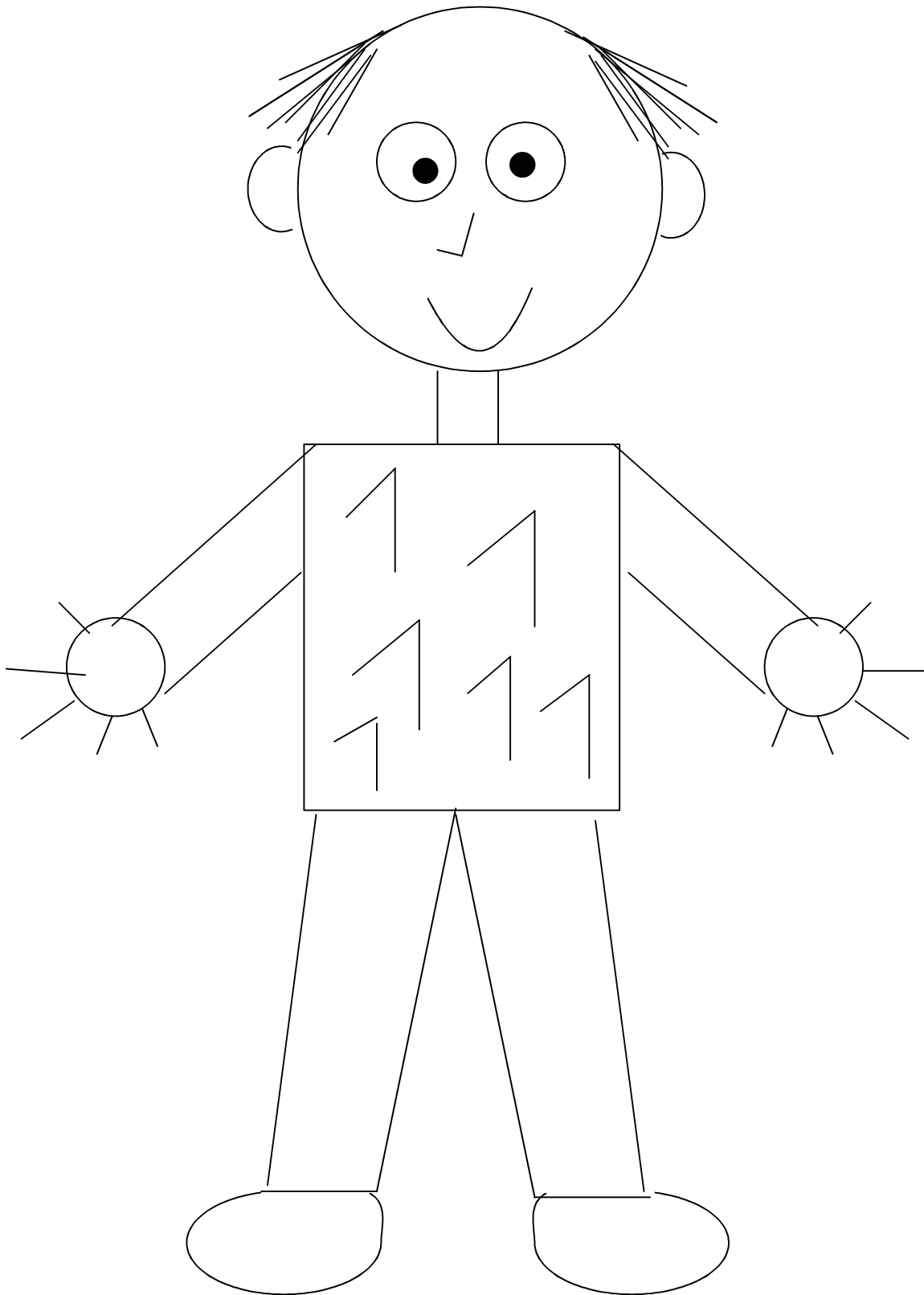


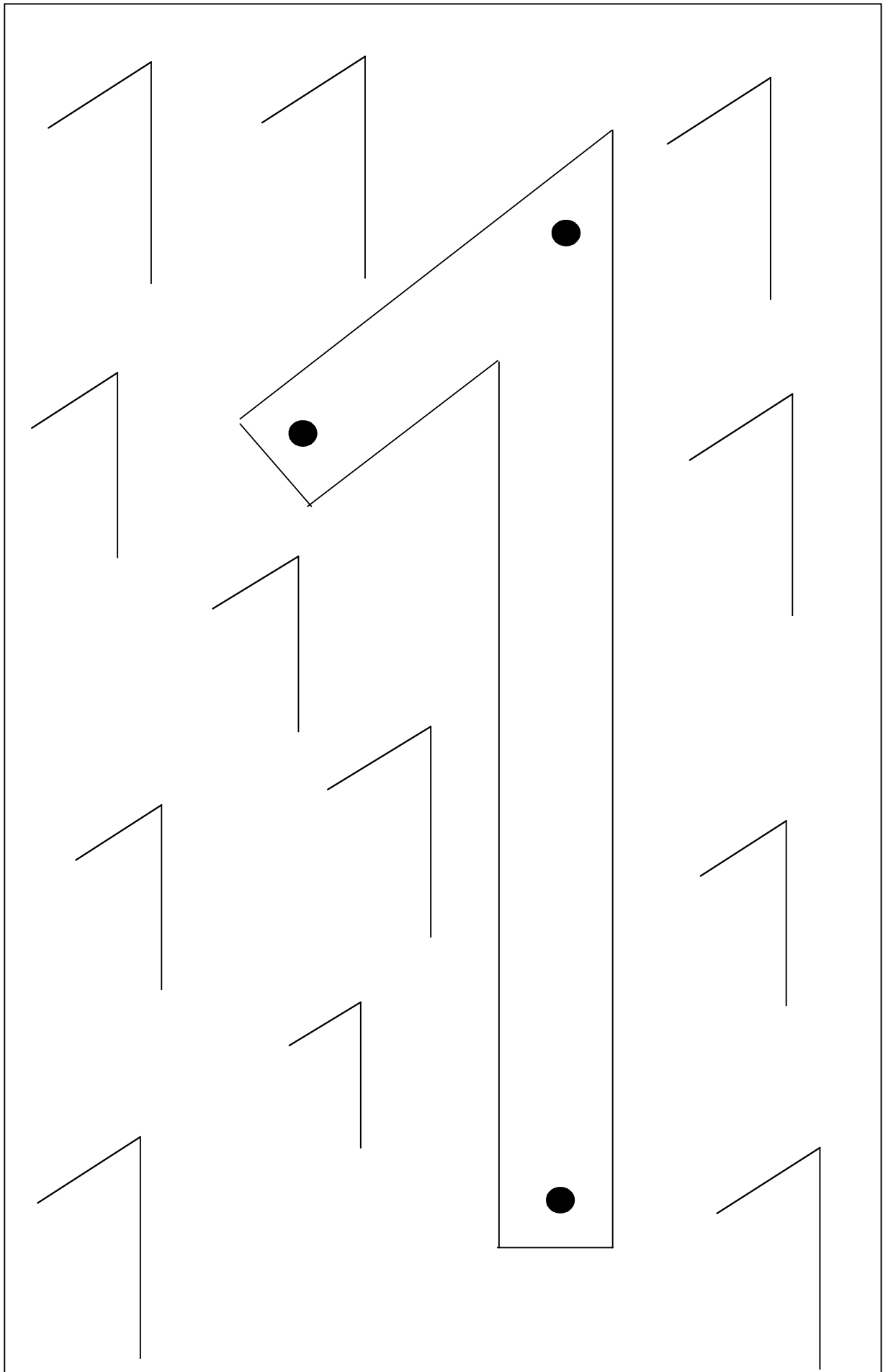


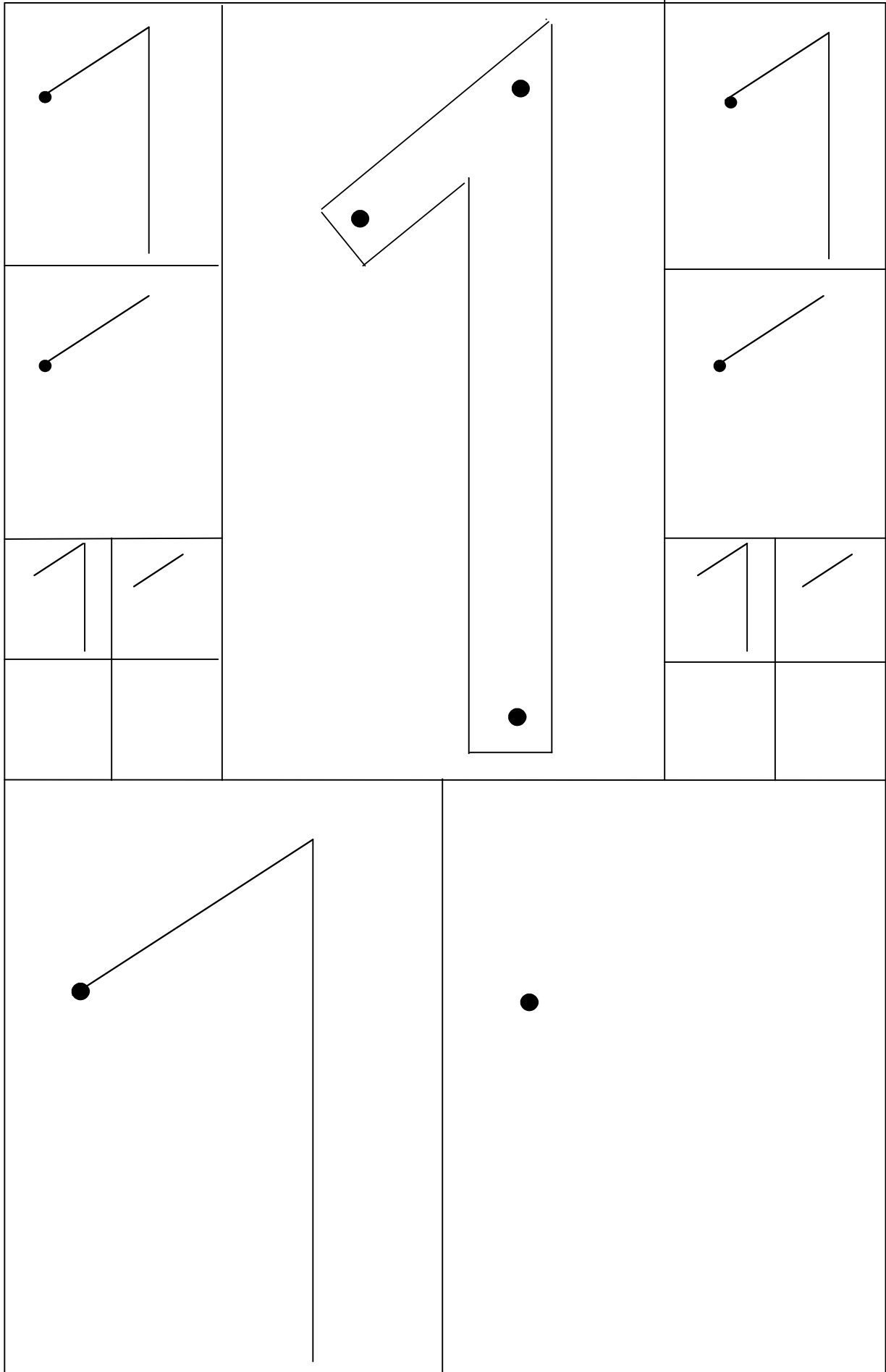


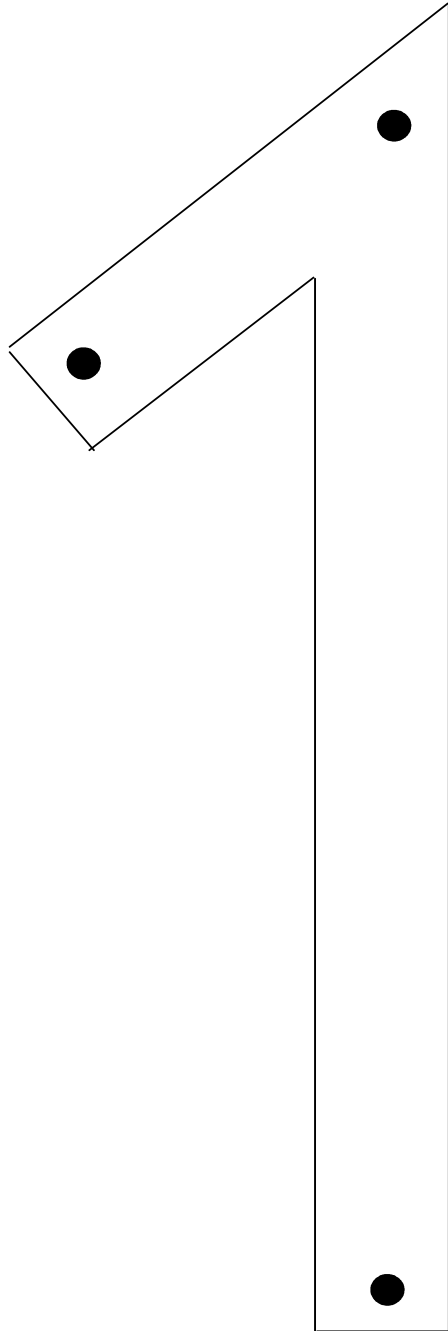


EMIL 1



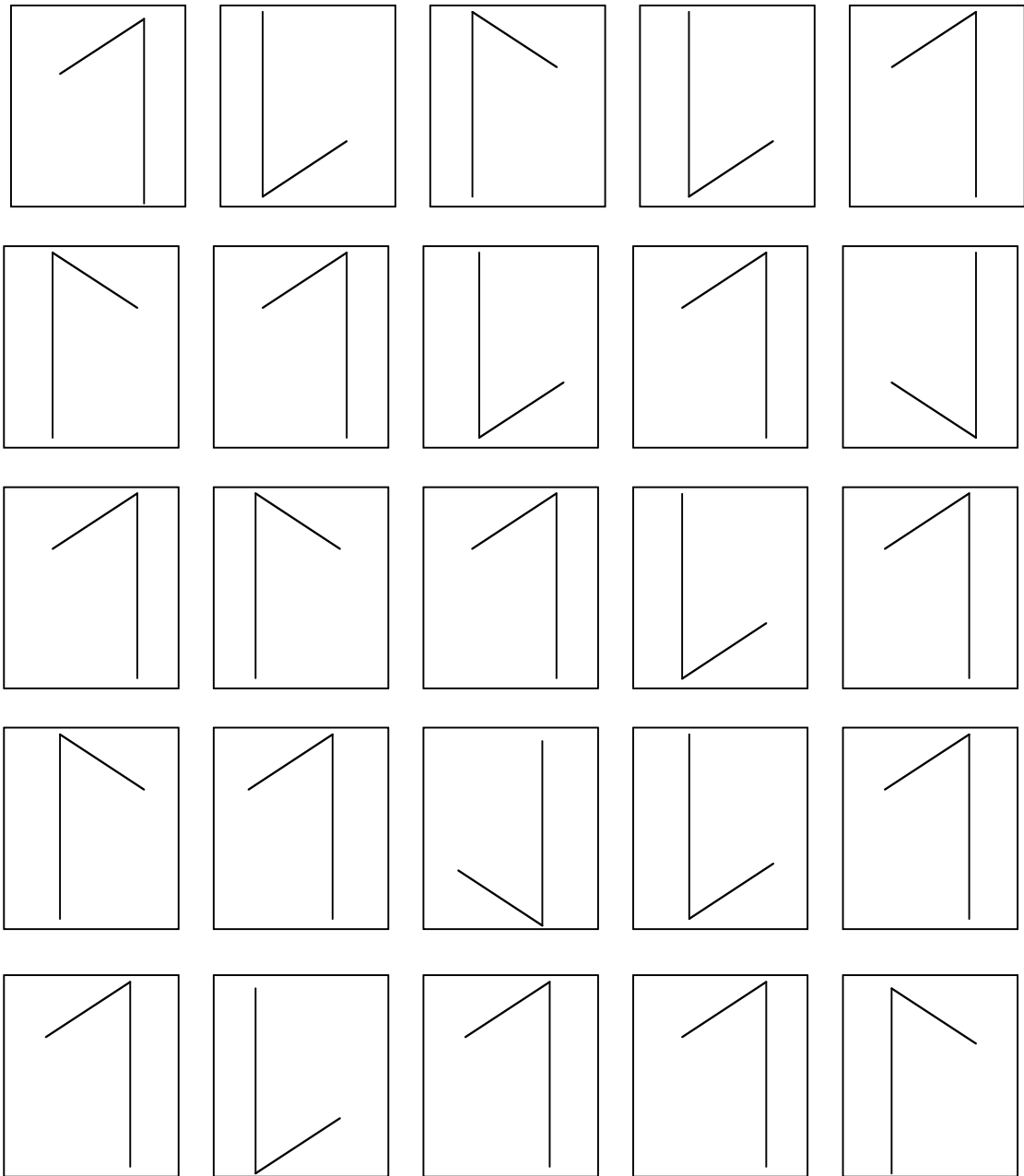
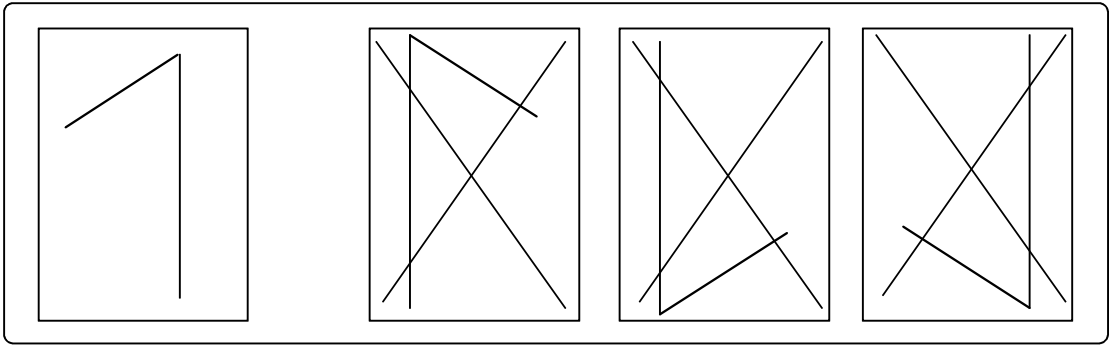


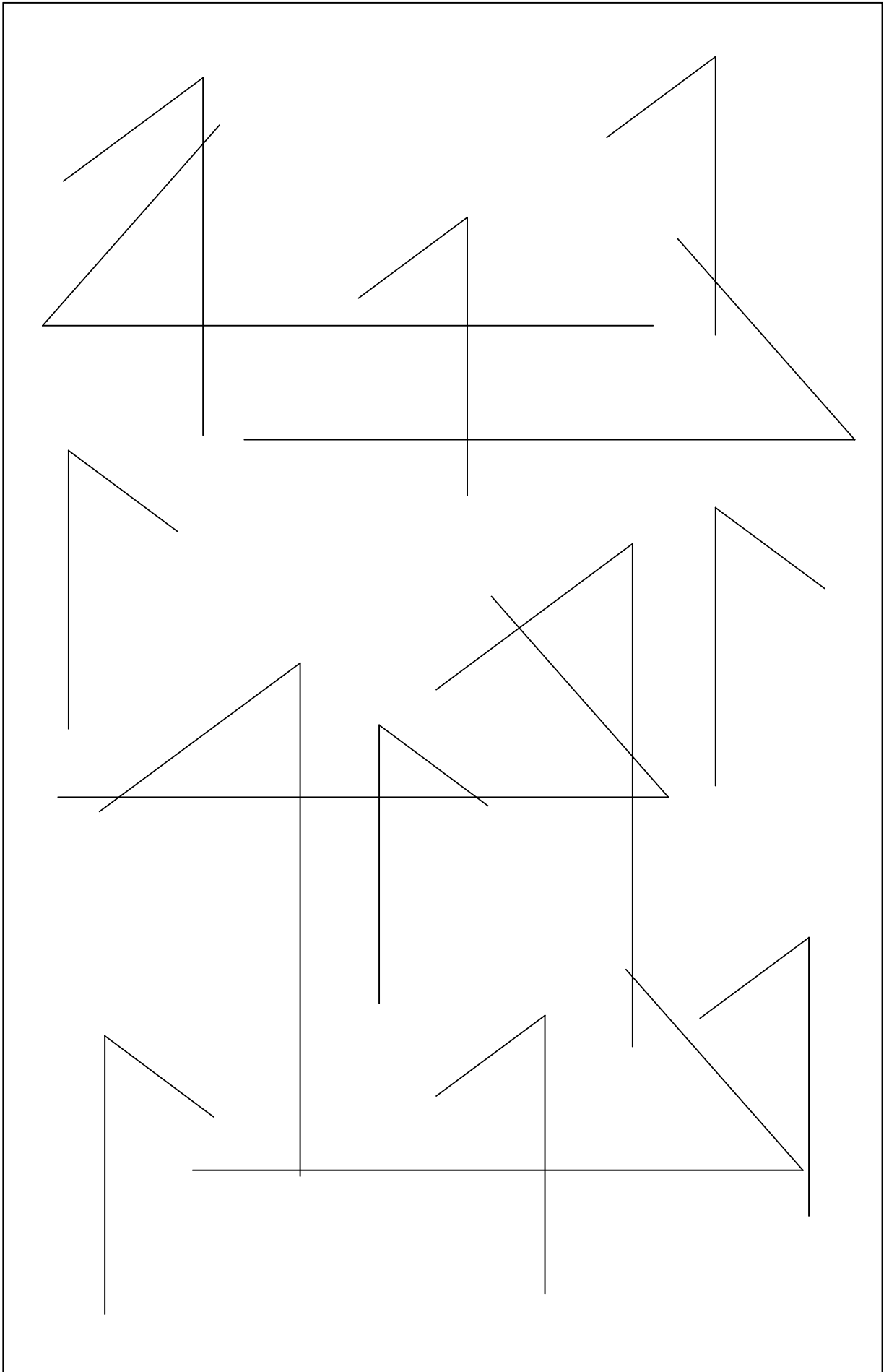




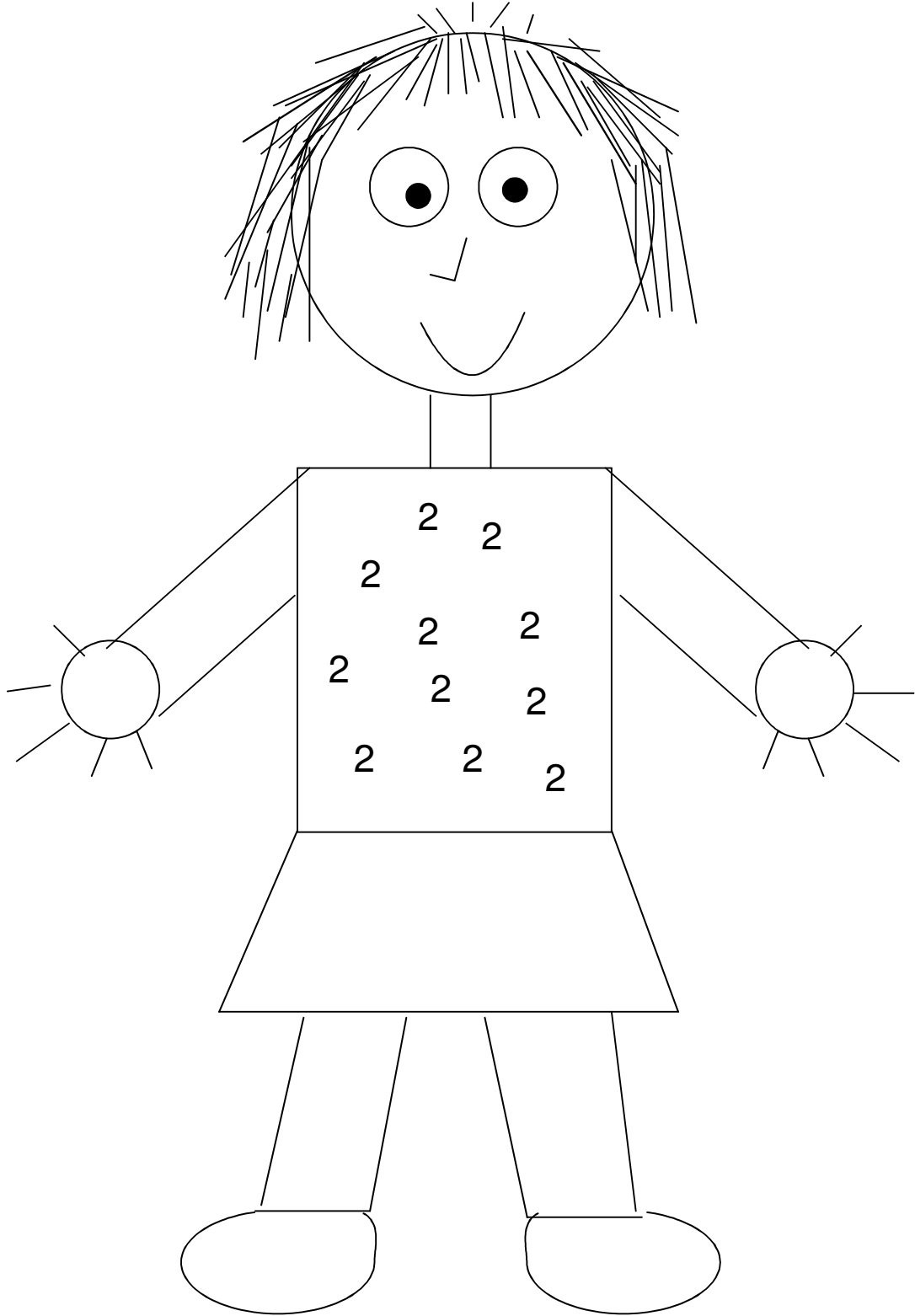
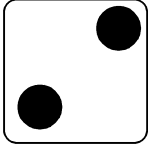
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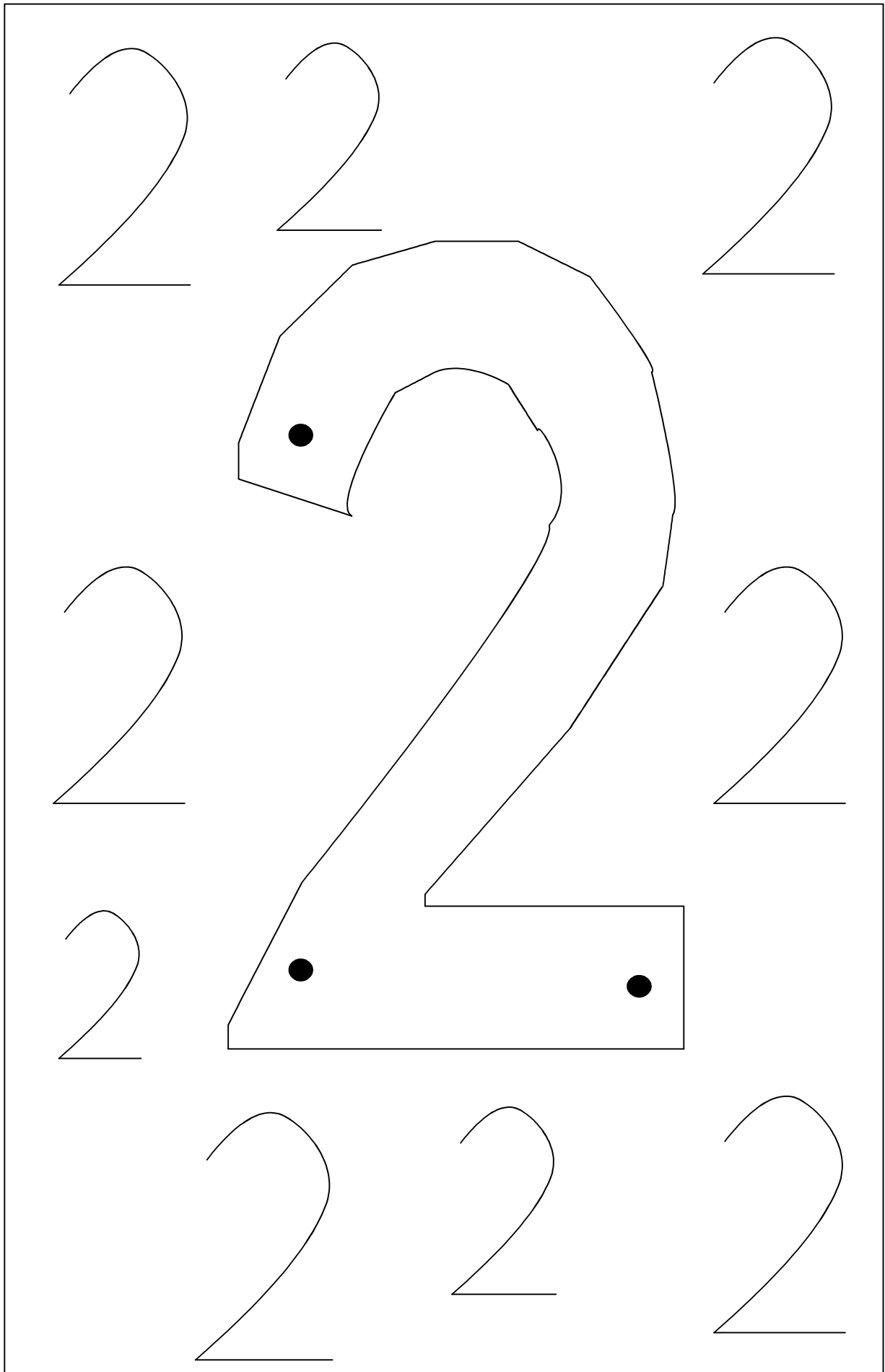
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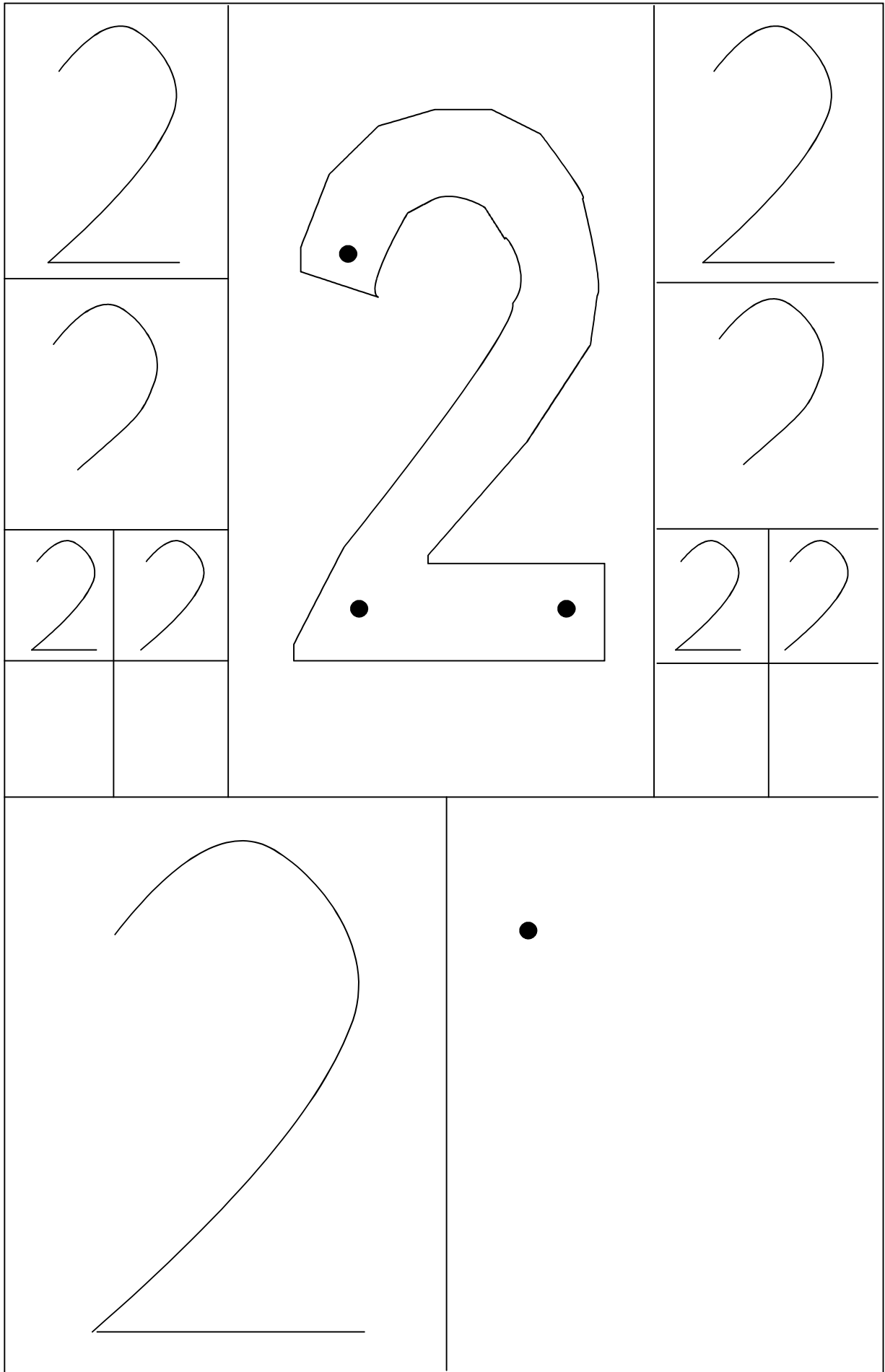


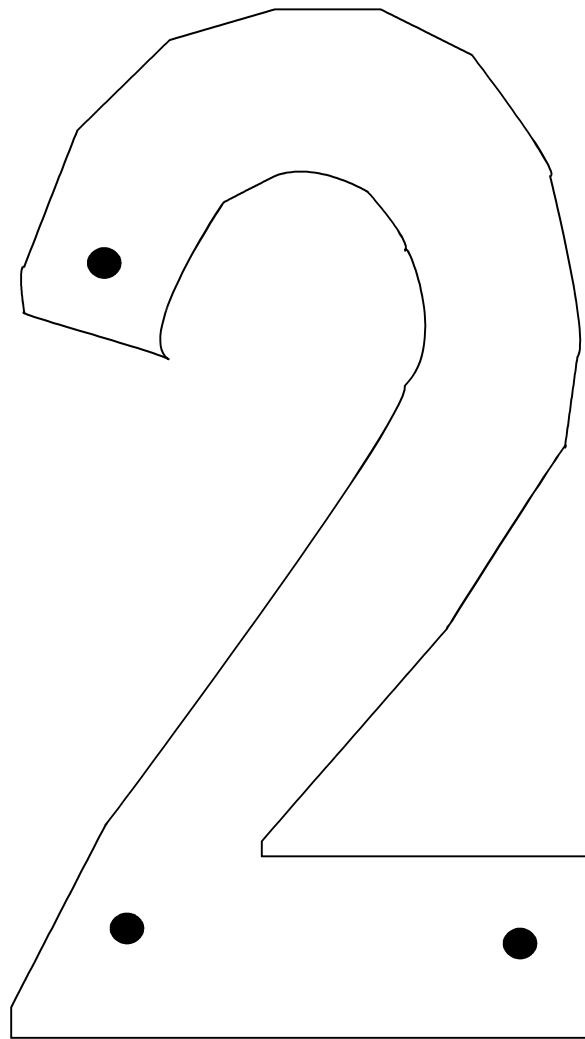


LENA 2



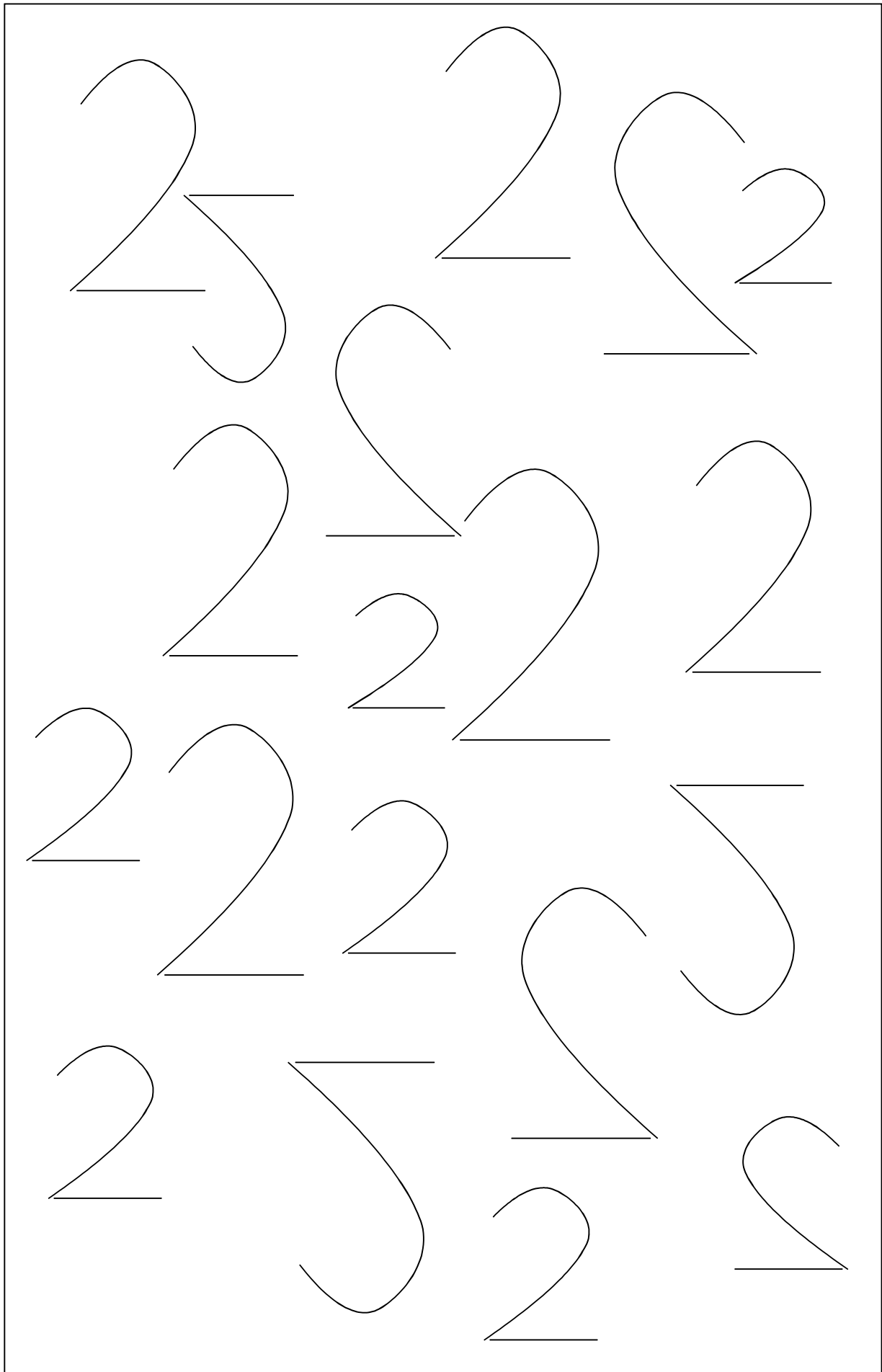




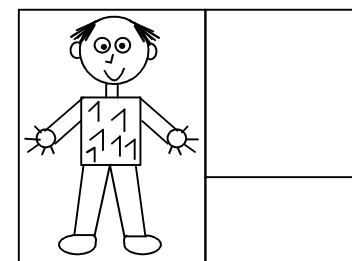
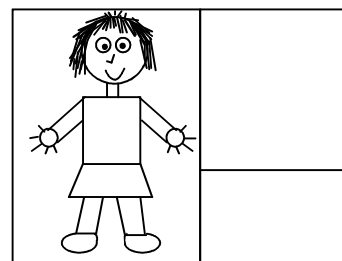
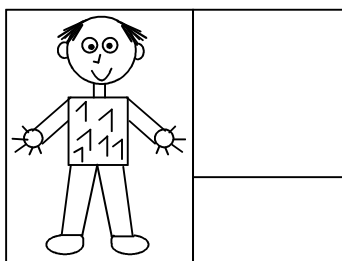
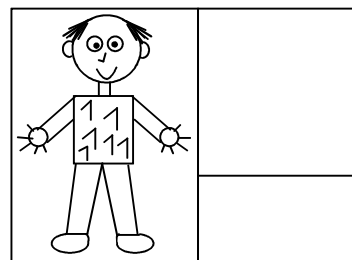
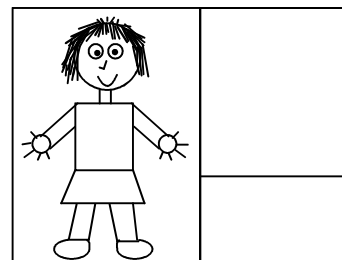
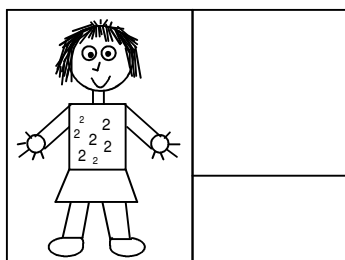
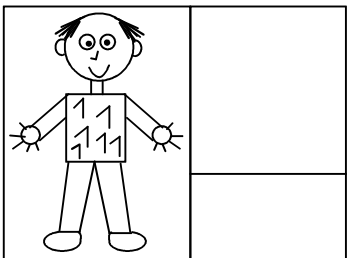
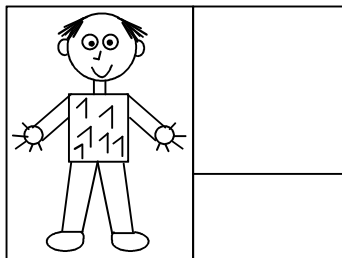
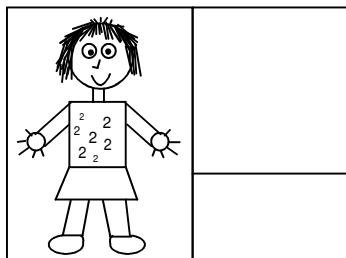
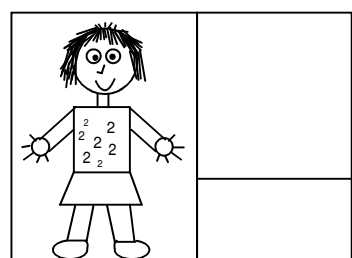
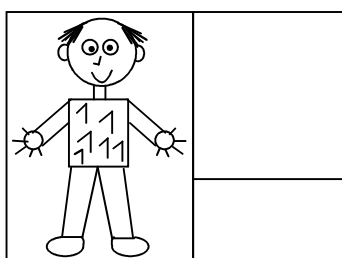
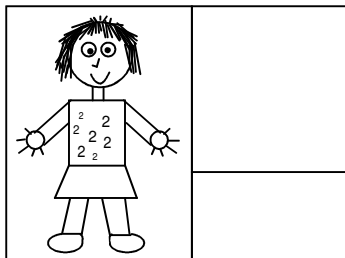
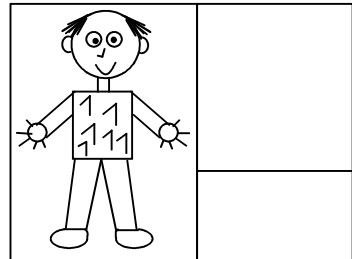
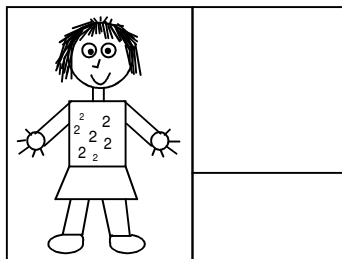
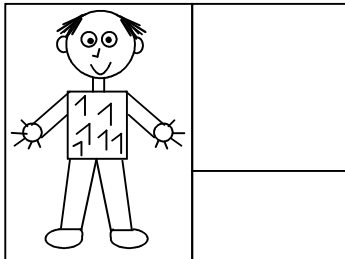
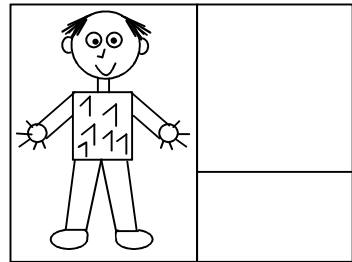
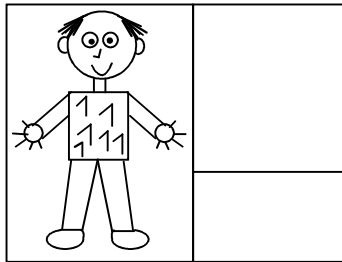
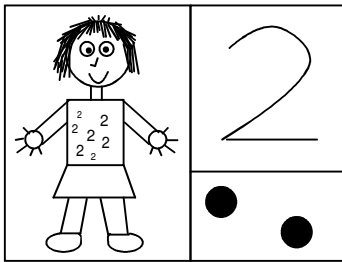


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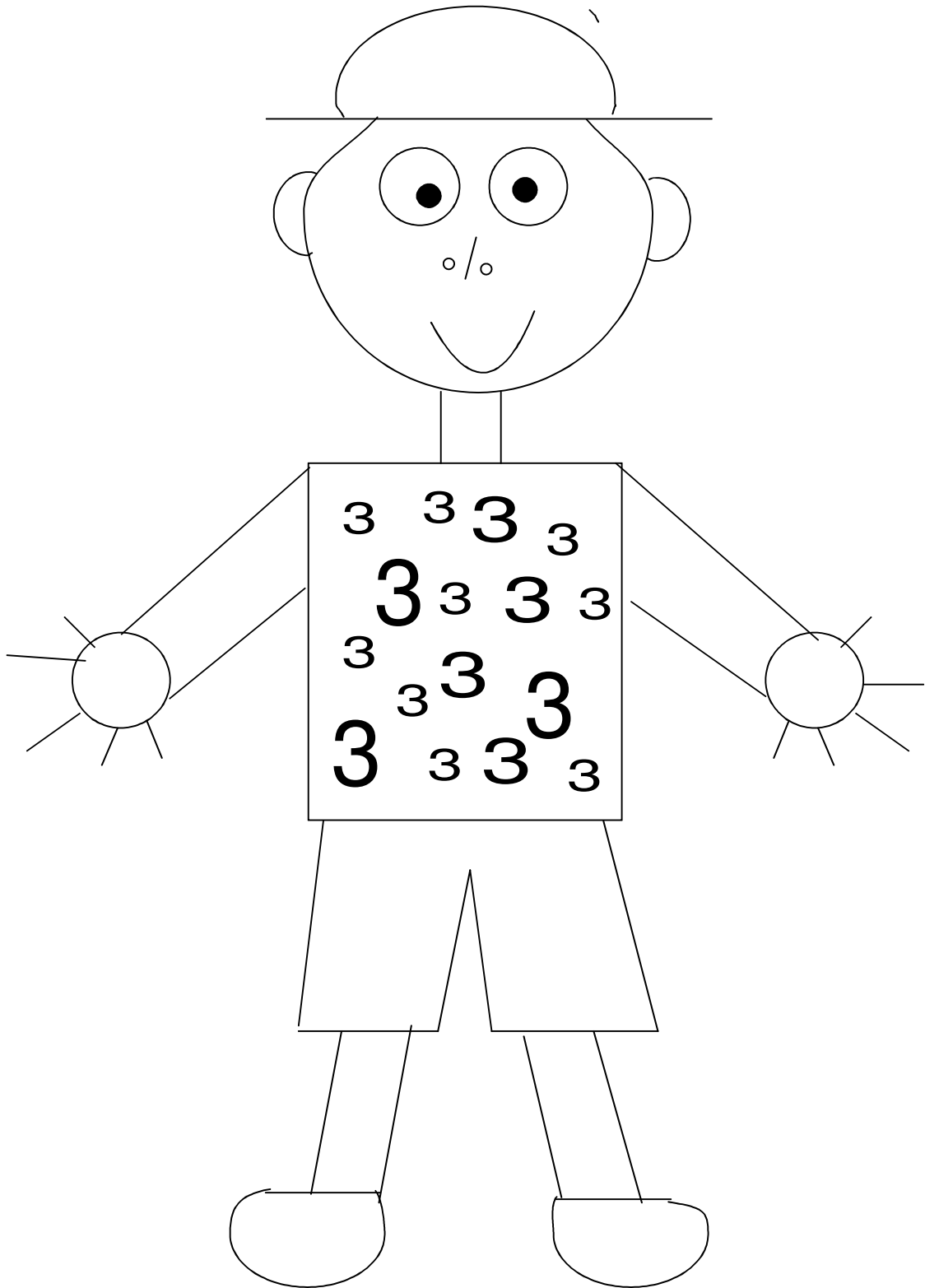
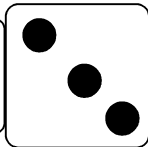
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EMIL 1 oder LENA 2



MAX 3



Hüpfe 3 x auf dem rechten Bein!

Hüpfe 3 x auf dem linken Bein!

Hüpfe 3 x mit beiden Beinen!

Hole 3 Autos!

Hole 3 Bücher!

Rufe 3 x ganz laut: HALLO!

Streichle deinen Freund 3 x!

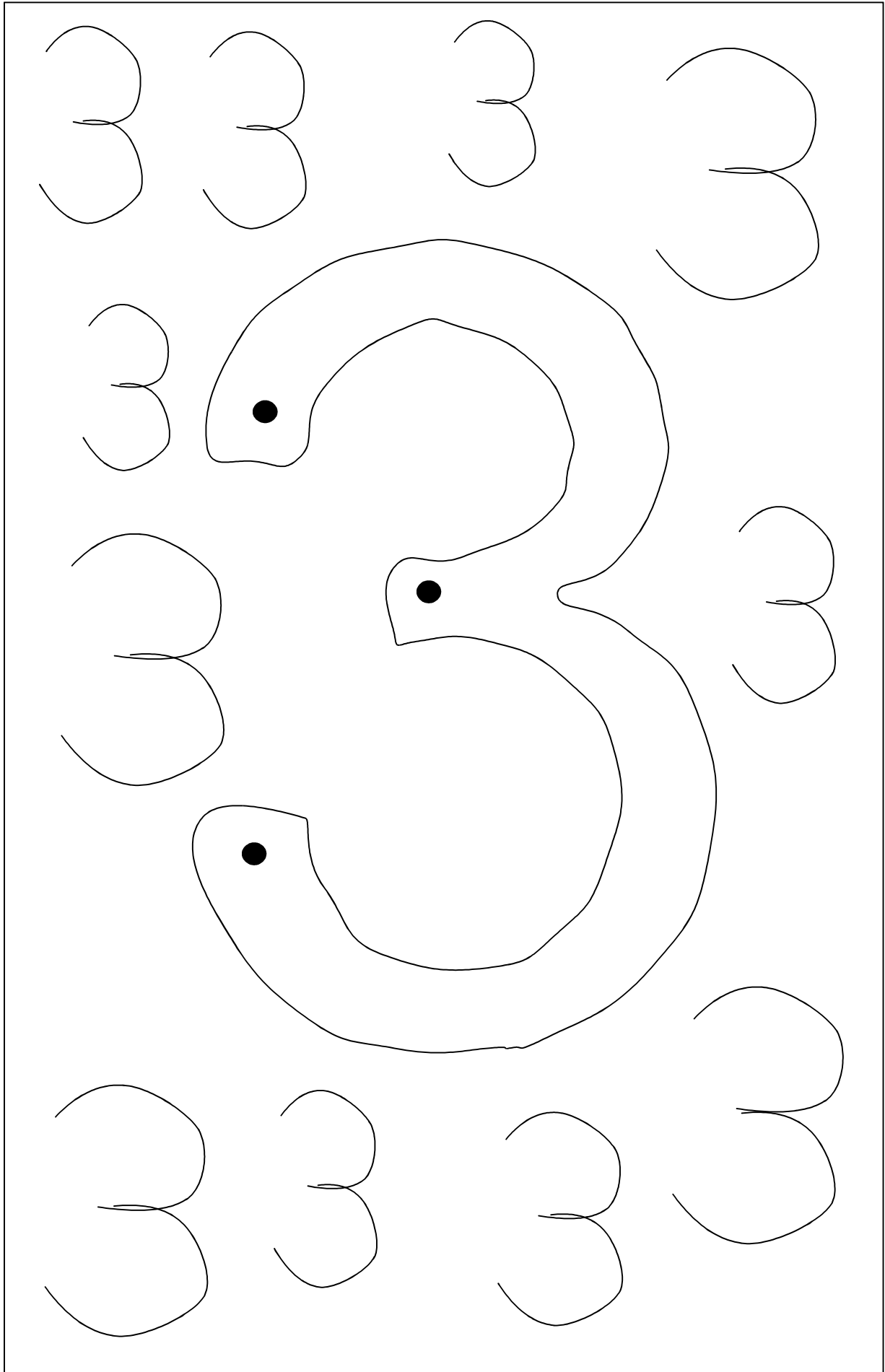
Mache 3 Kniebeugen!

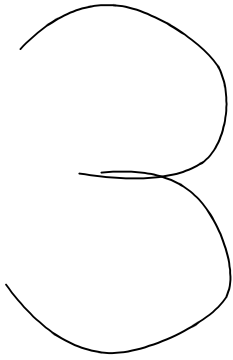
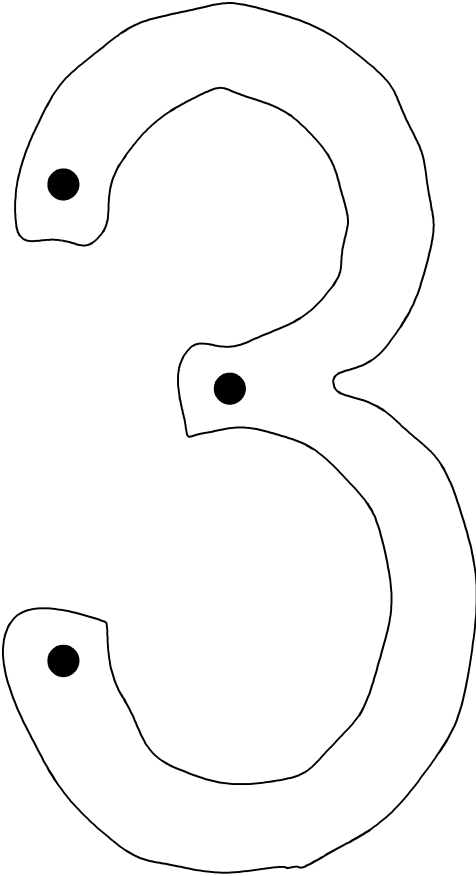
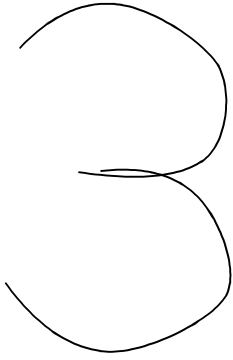
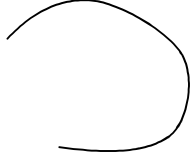
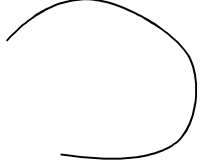






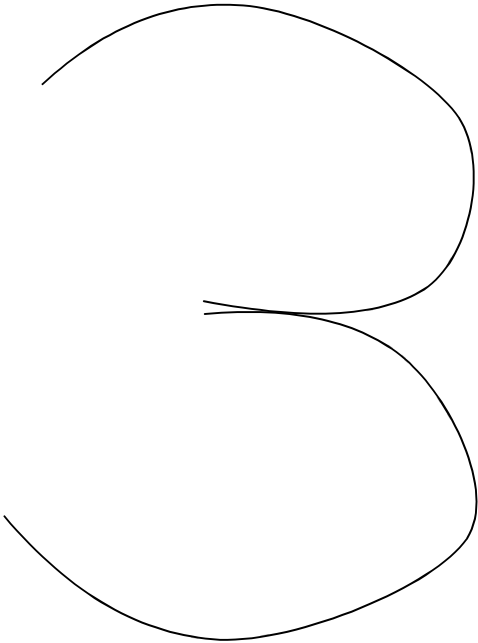

Gib 3 Kindern ein Gummibärchen

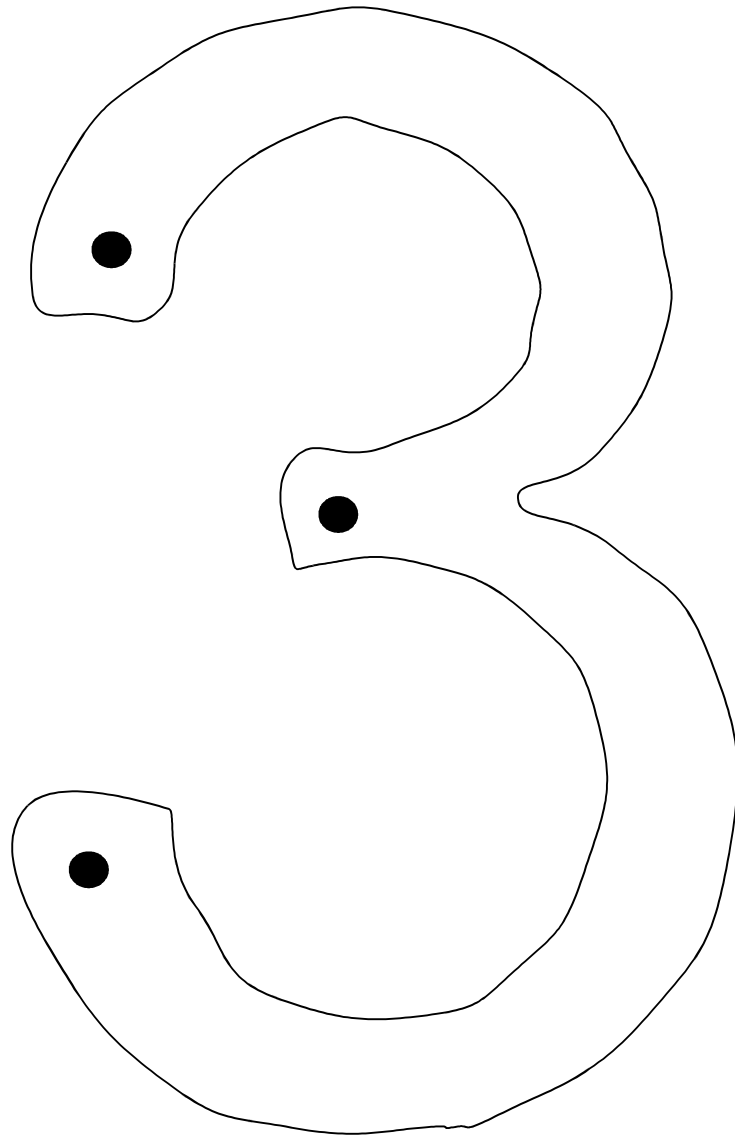
Klopfe 3x an die Tür

Klatsche 3x in die Hände

Sage 3 Kindern "Guten Tag"





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2					
3					



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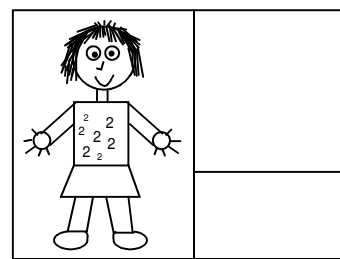
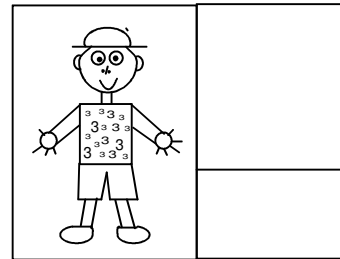
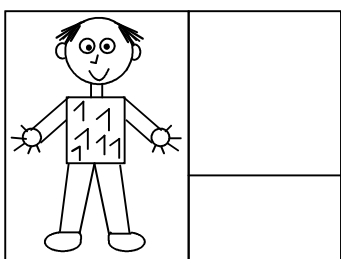
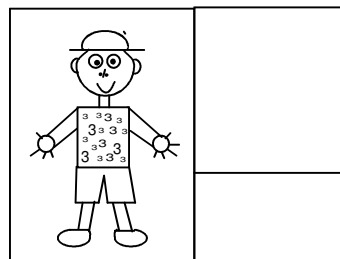
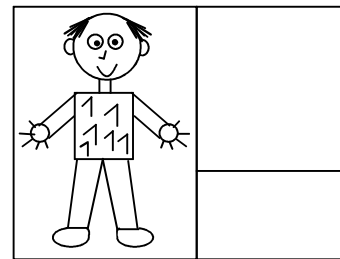
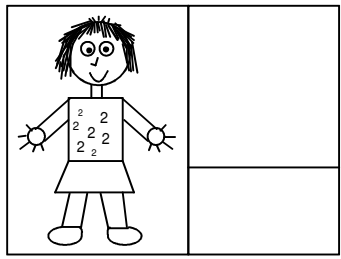
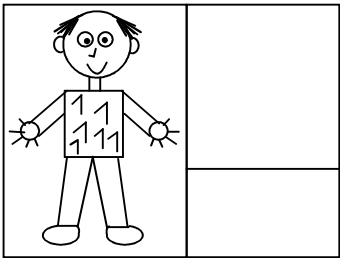
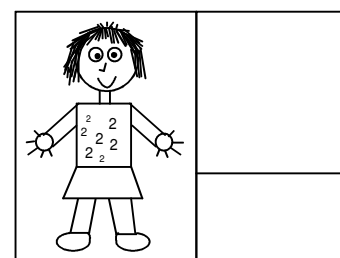
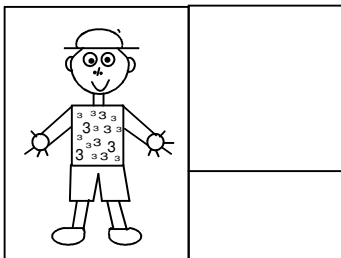
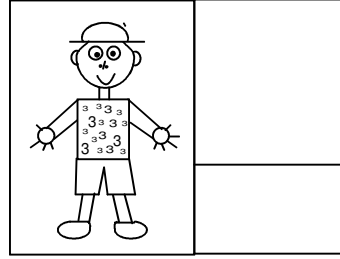
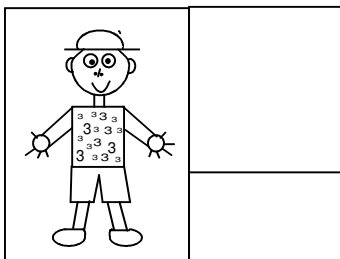
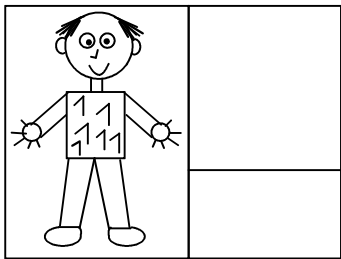
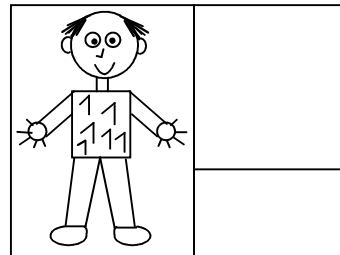
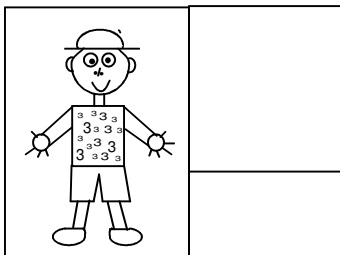
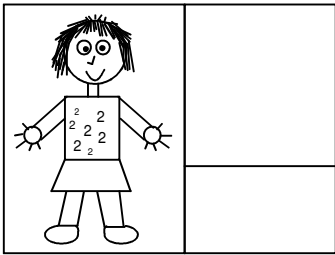
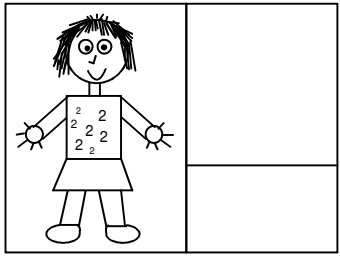
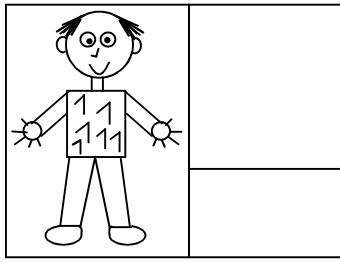
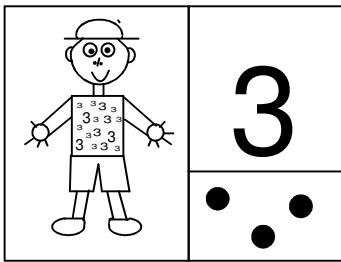
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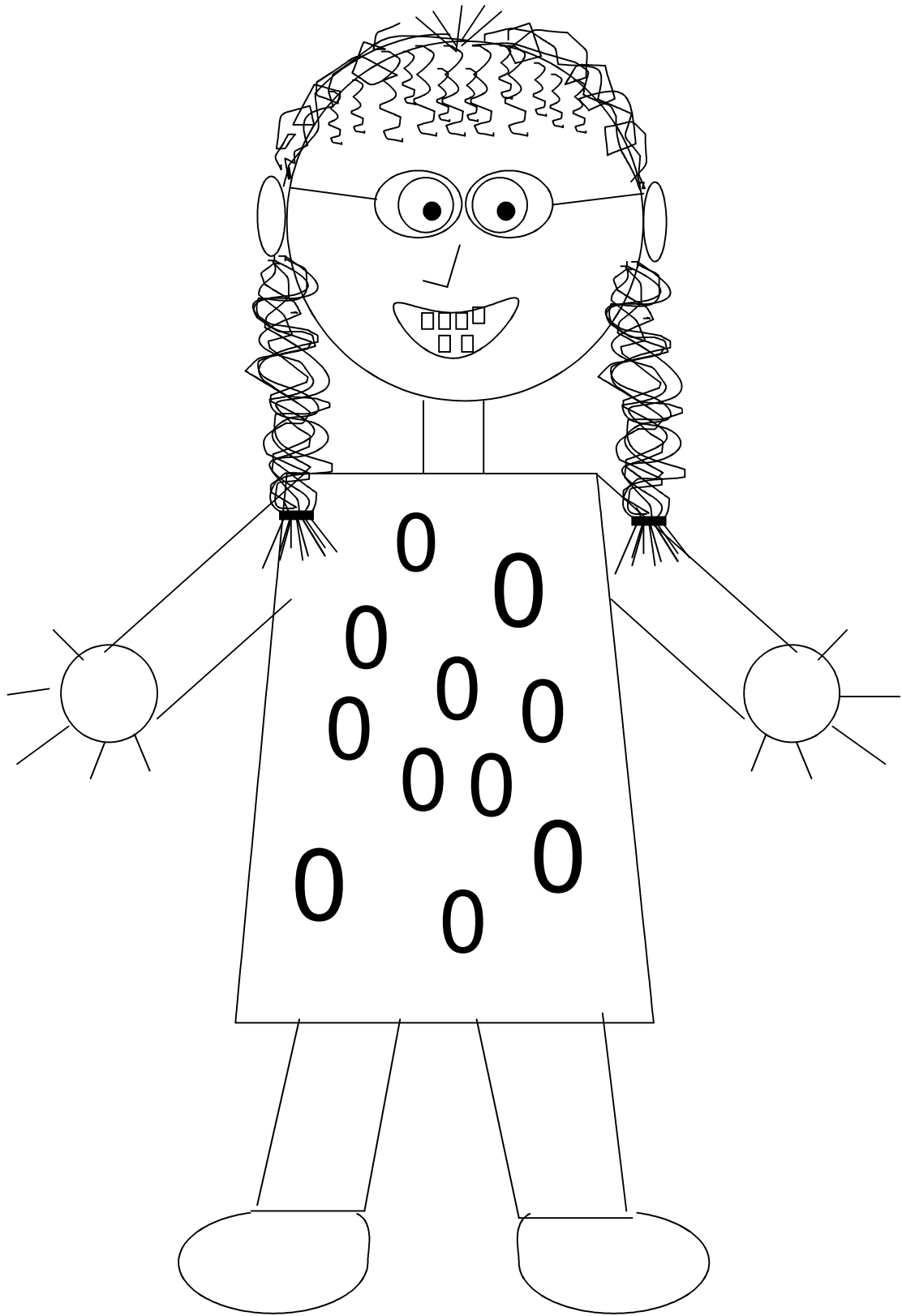
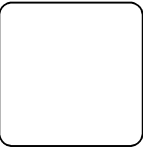
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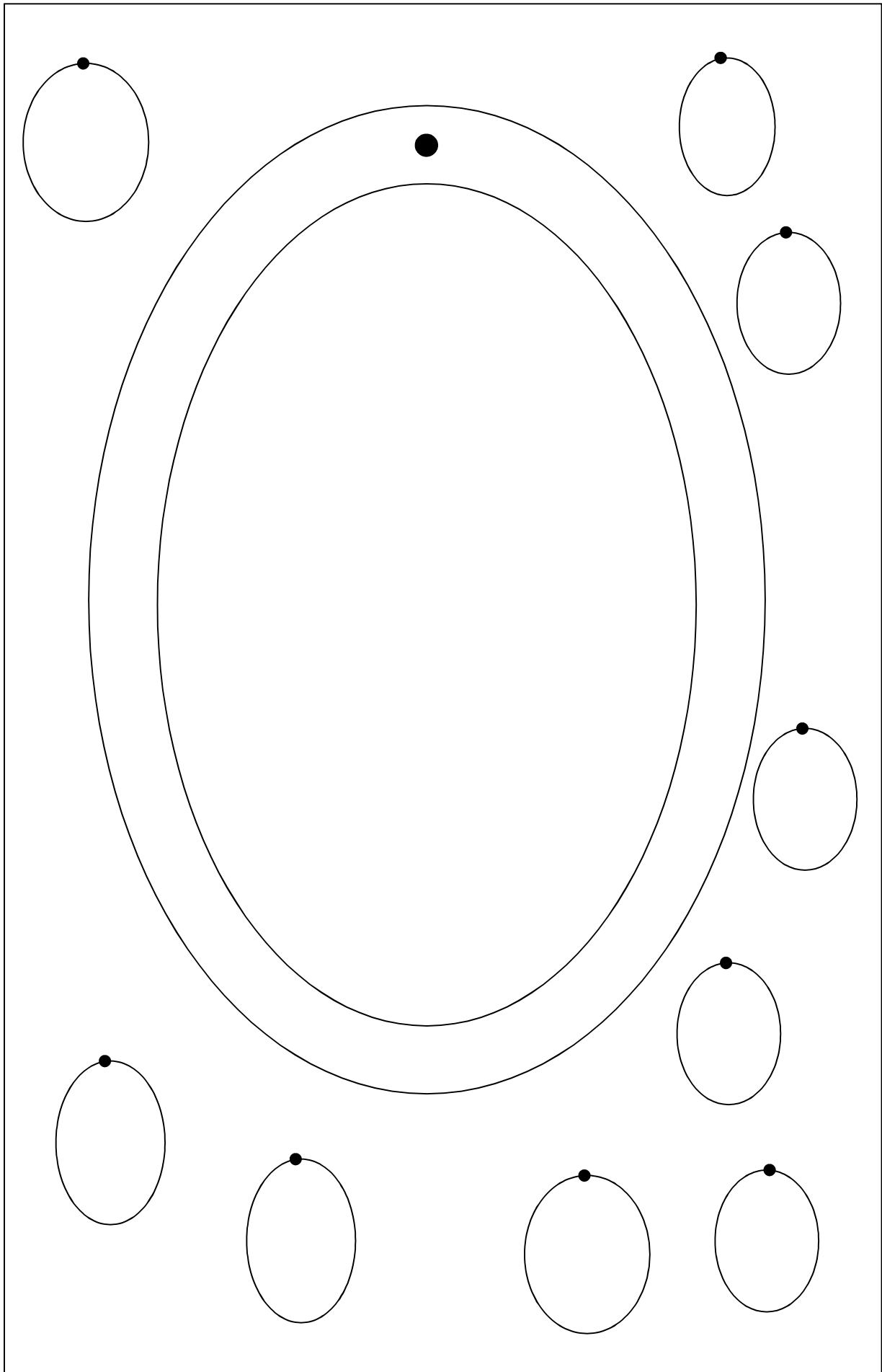
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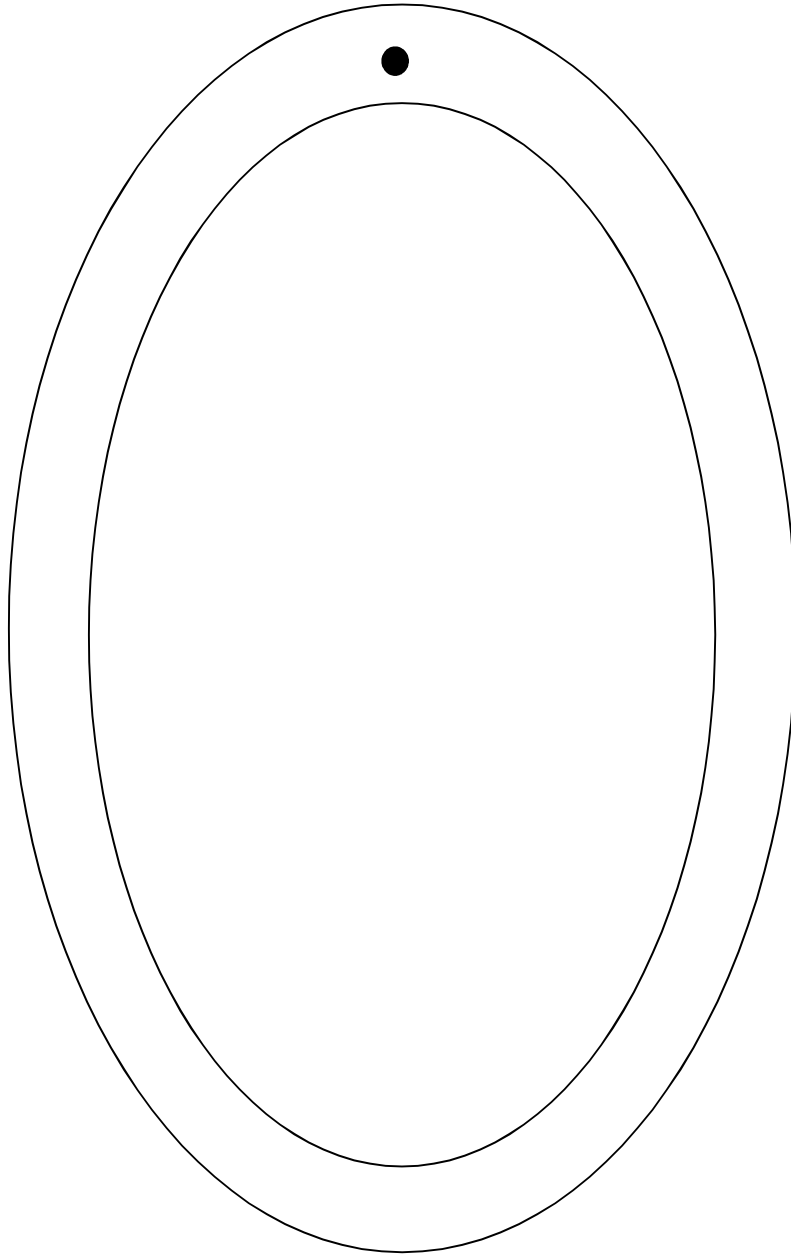
EMIL 1, LENA 2 oder MAX 3



NELLI 0



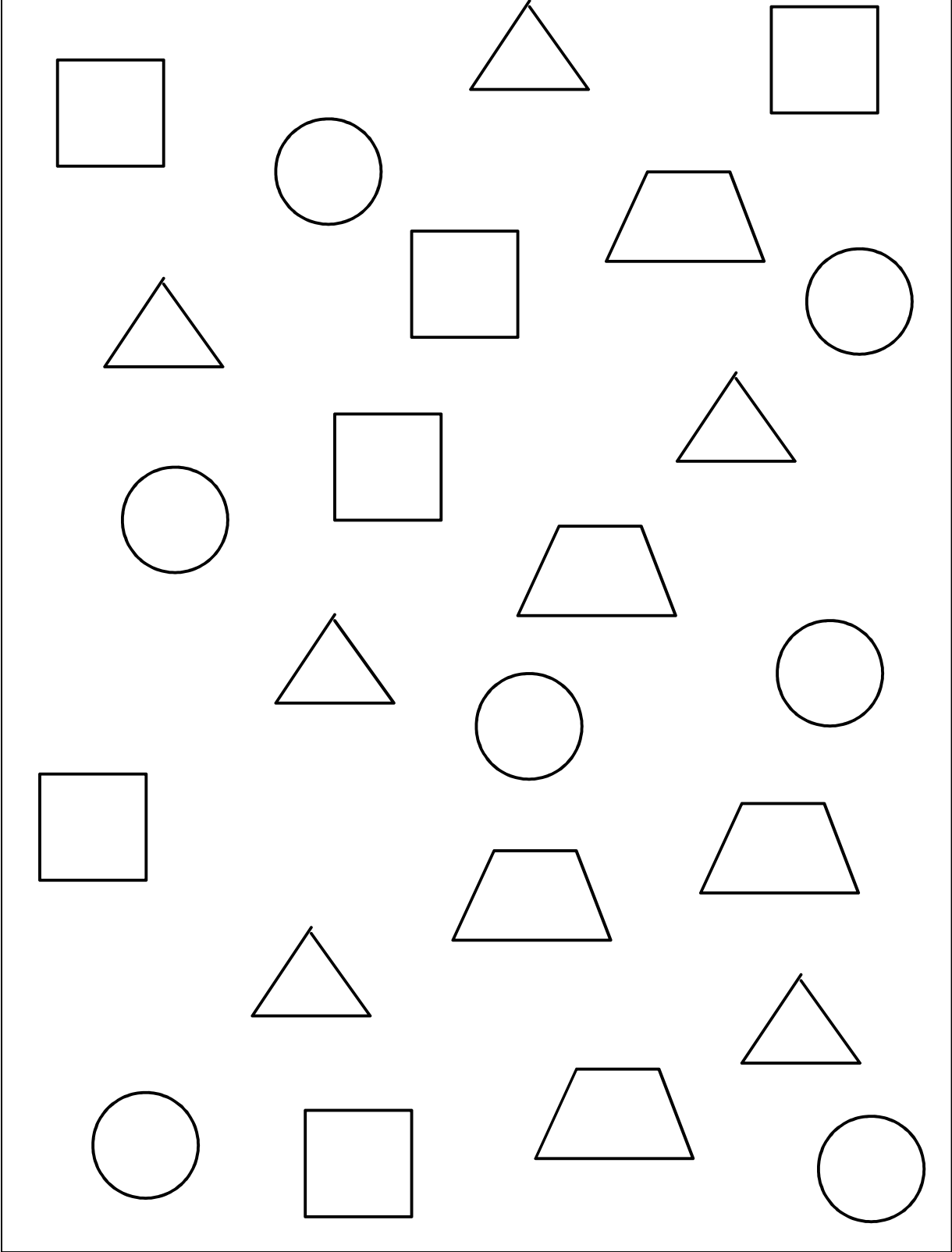




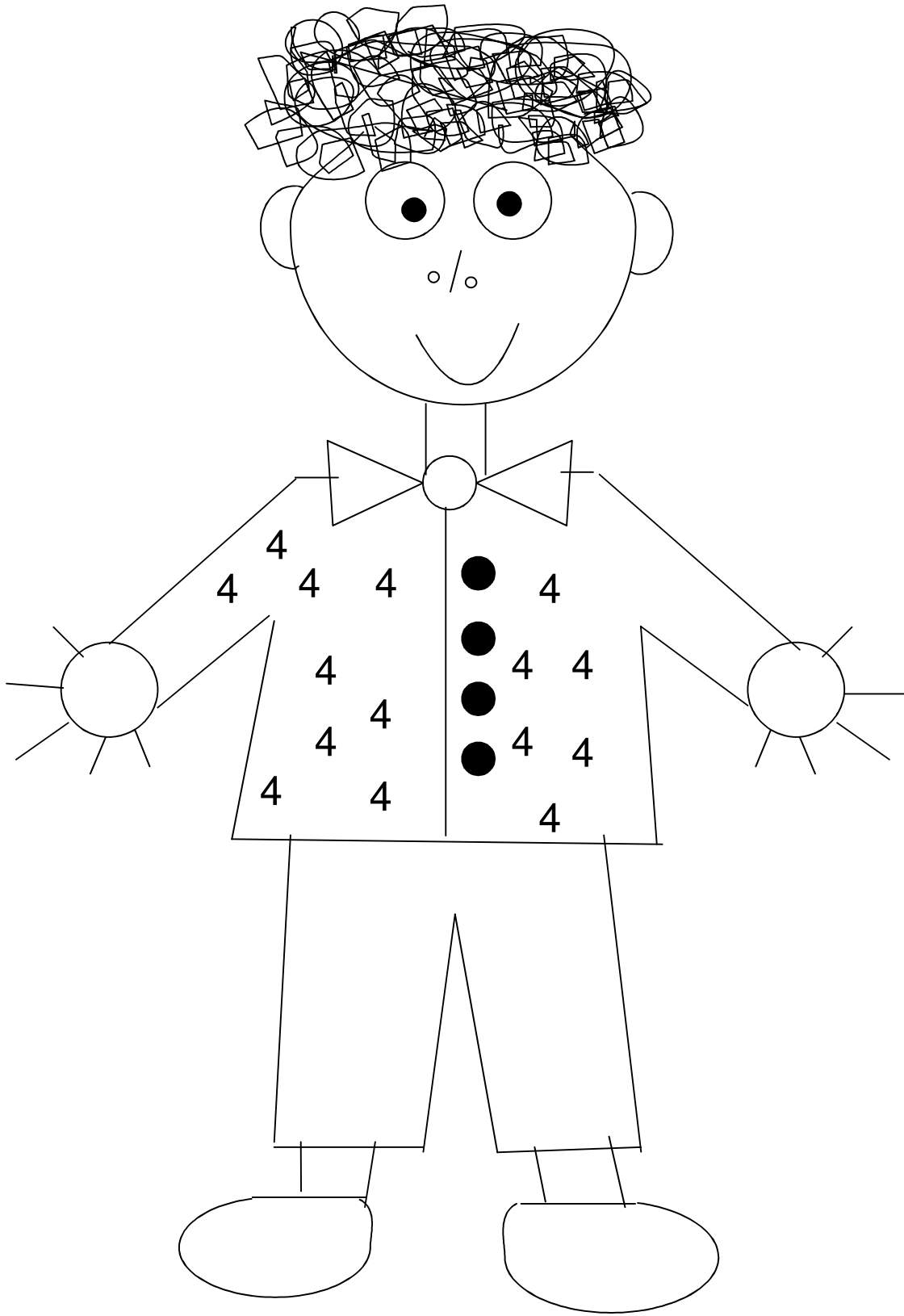
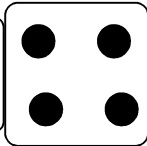
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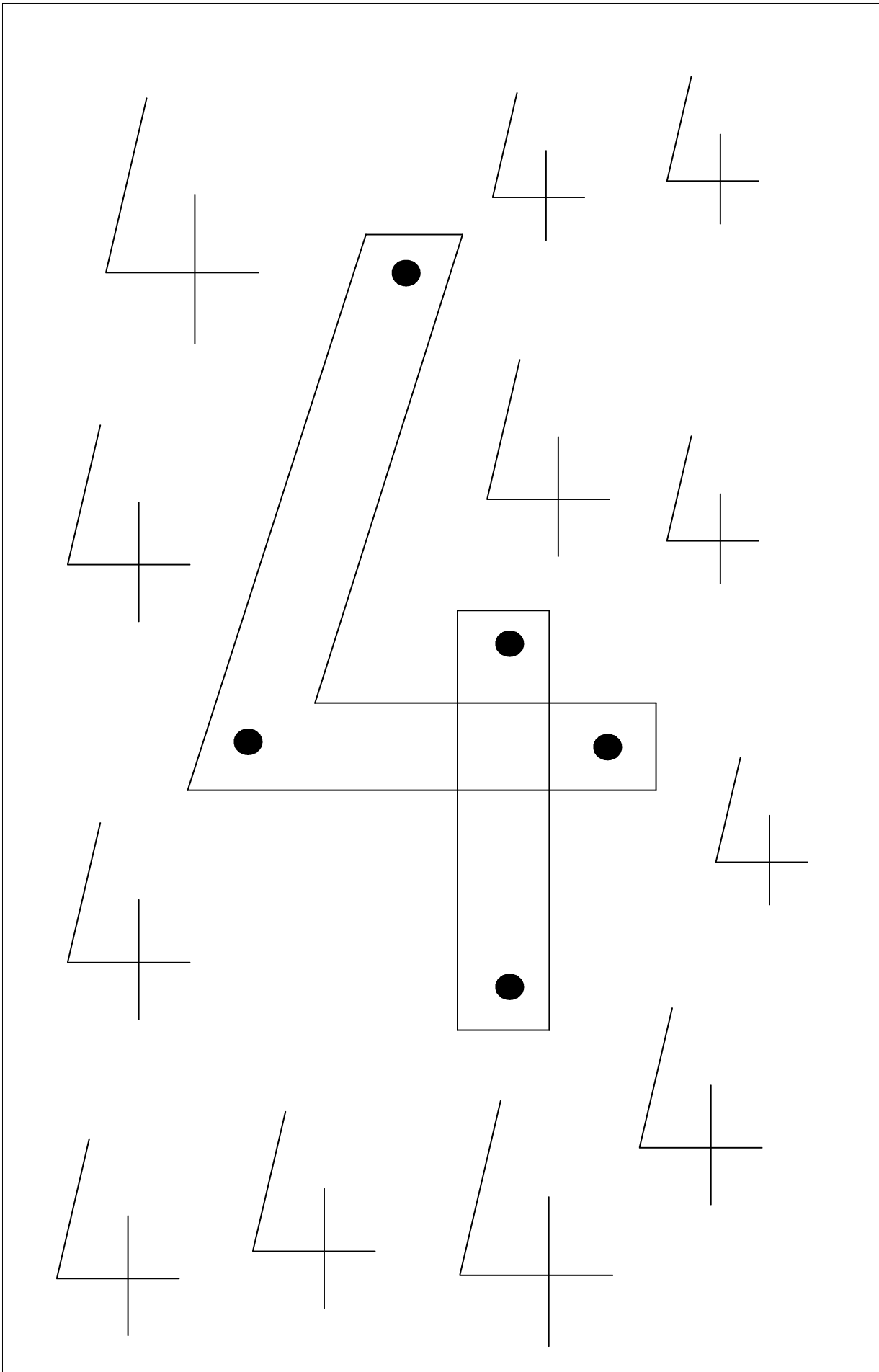
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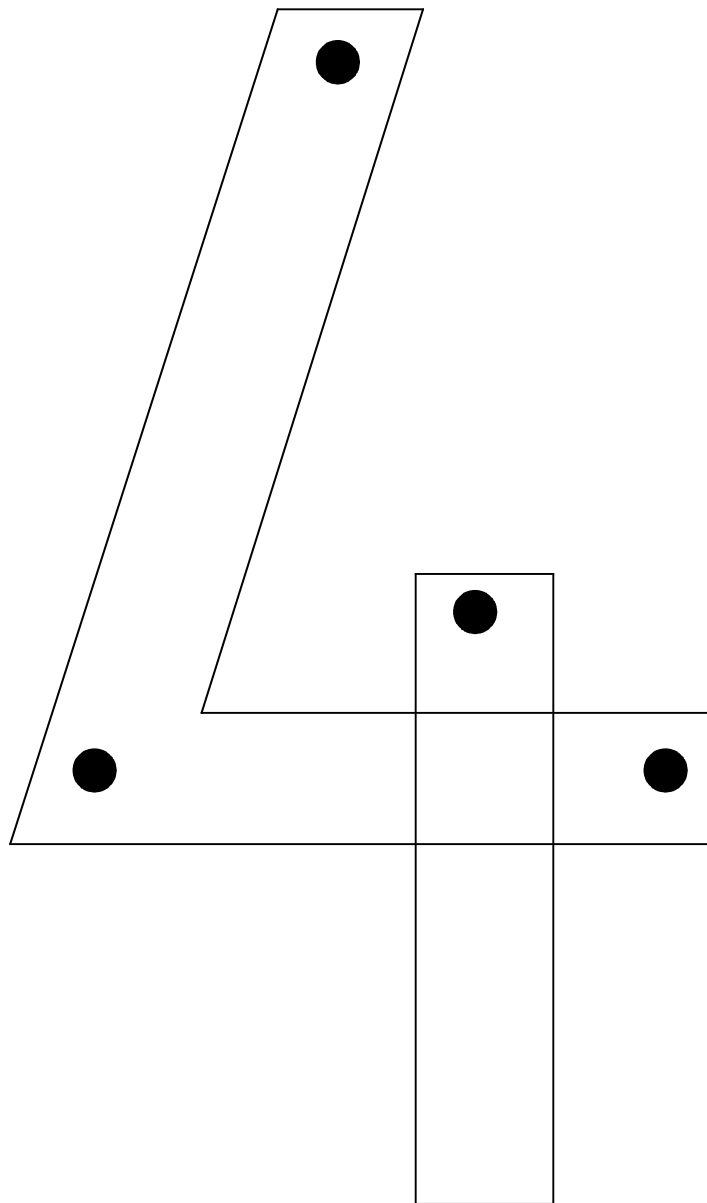
0 1 2 3



Fritz 4







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1	4	1	4

1	2	3	4

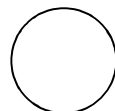
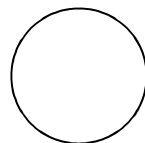
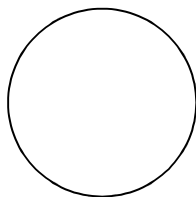
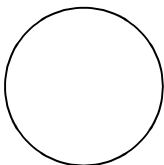
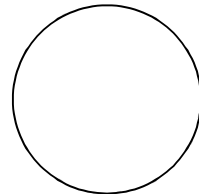
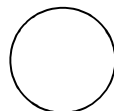
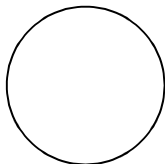
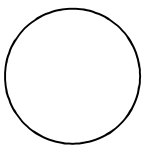
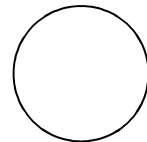
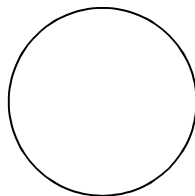
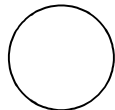
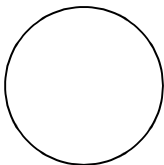
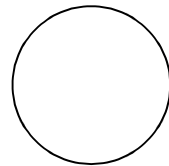
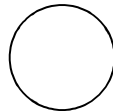
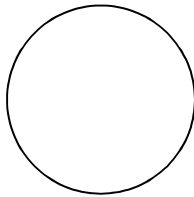
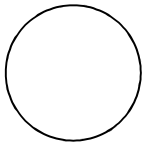
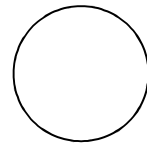
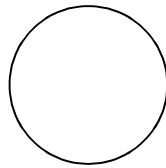
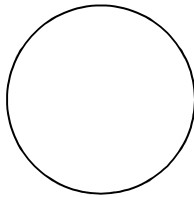
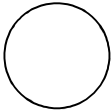
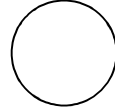
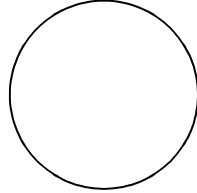
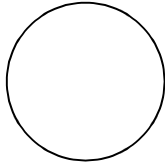
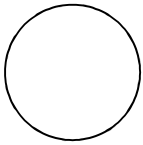
0	4								
4	1								
2	4								
4	3								

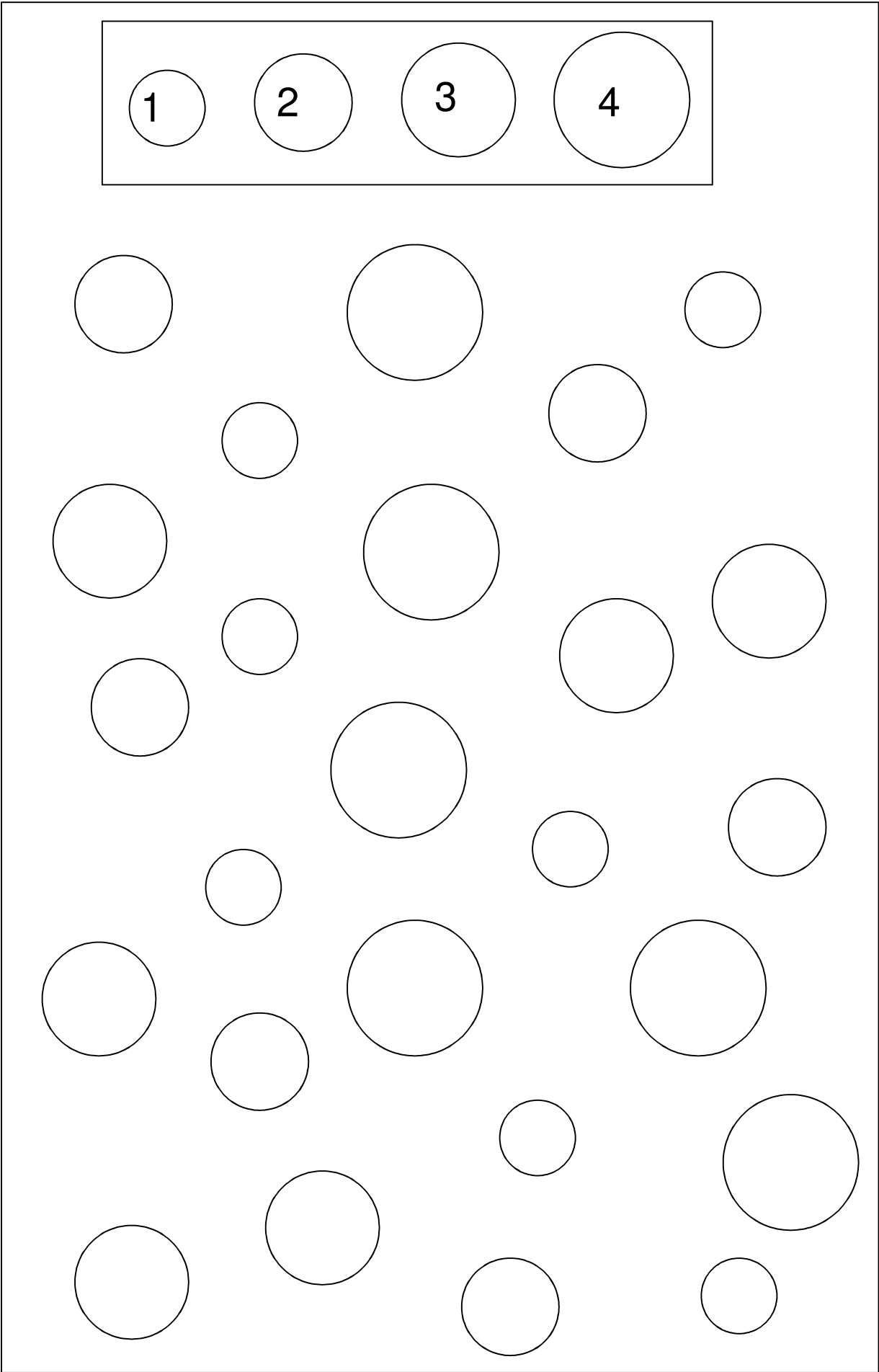
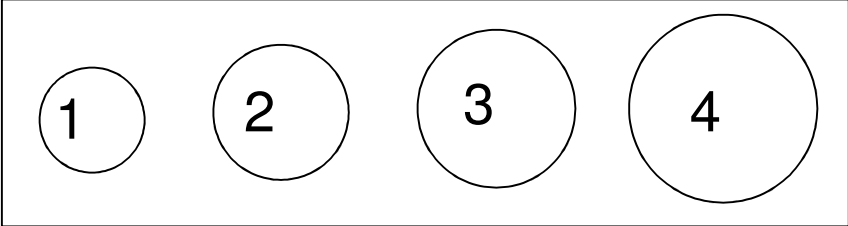
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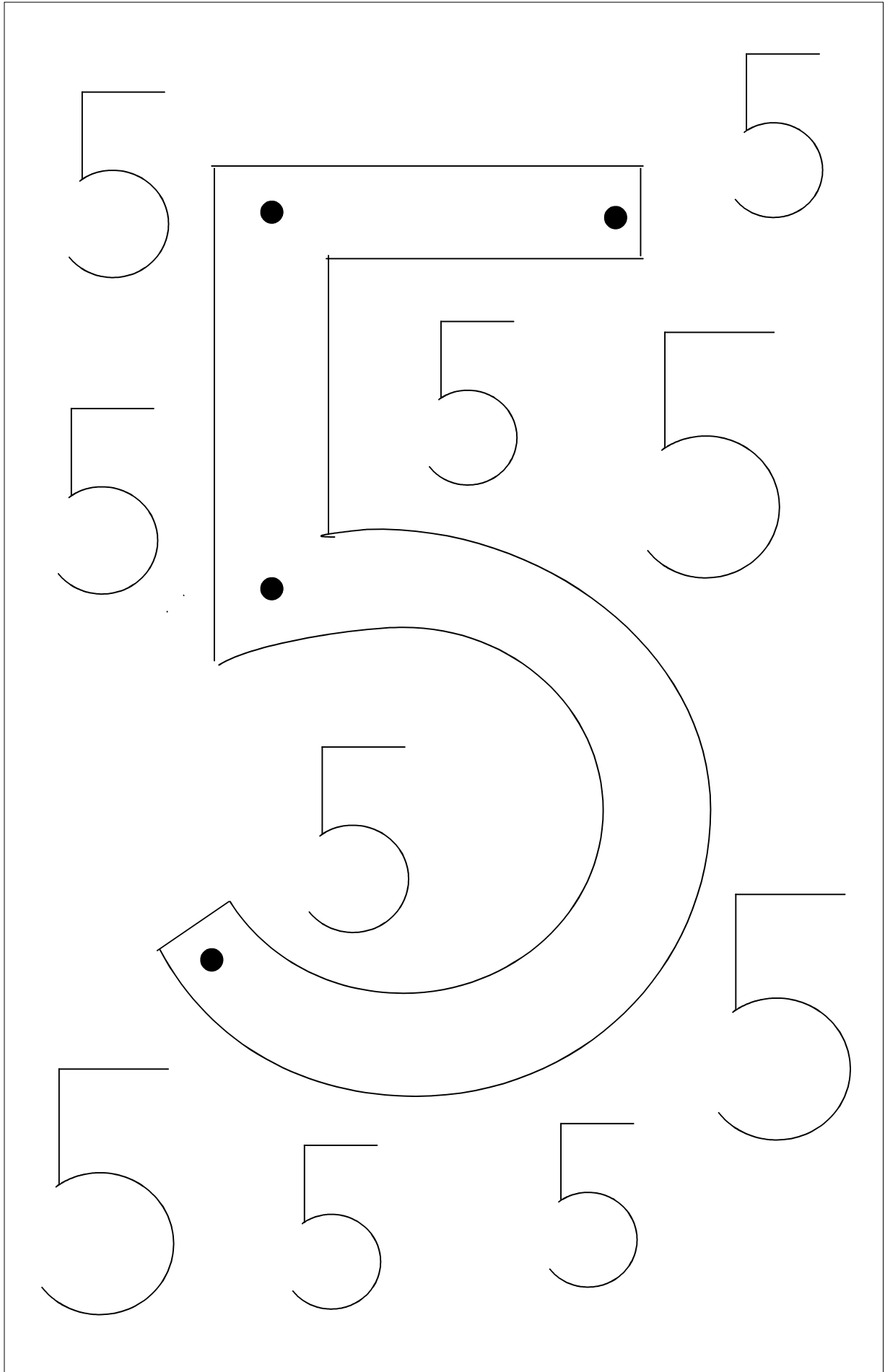
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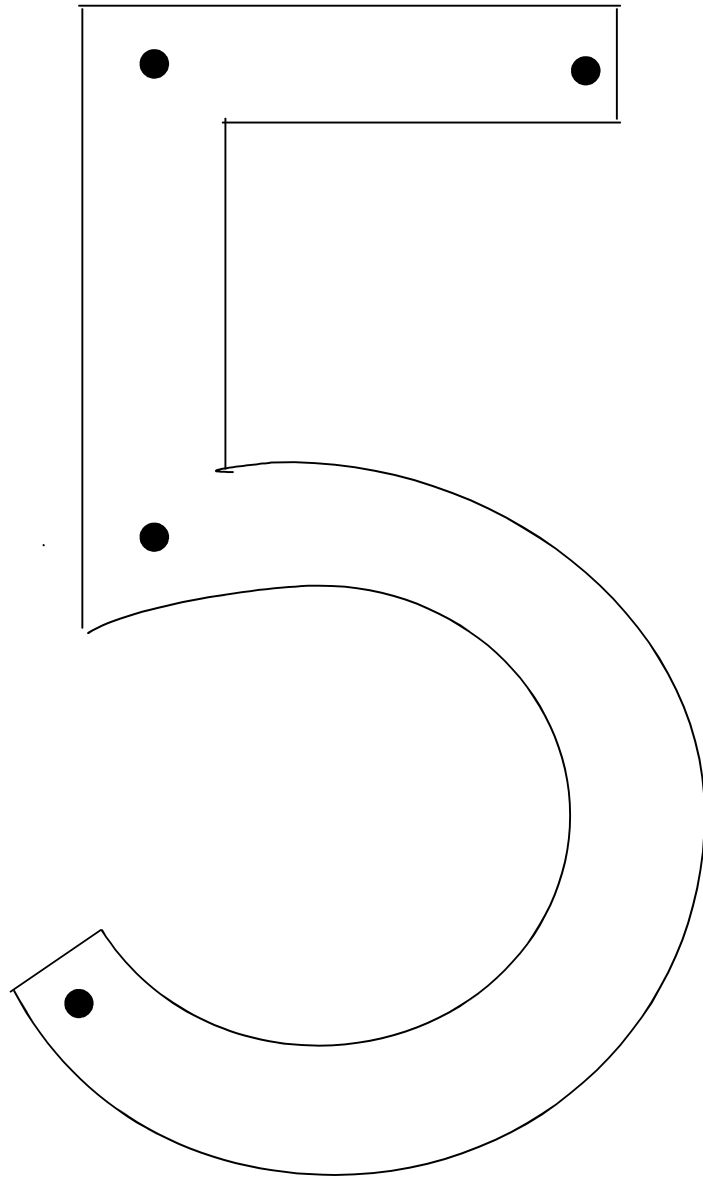
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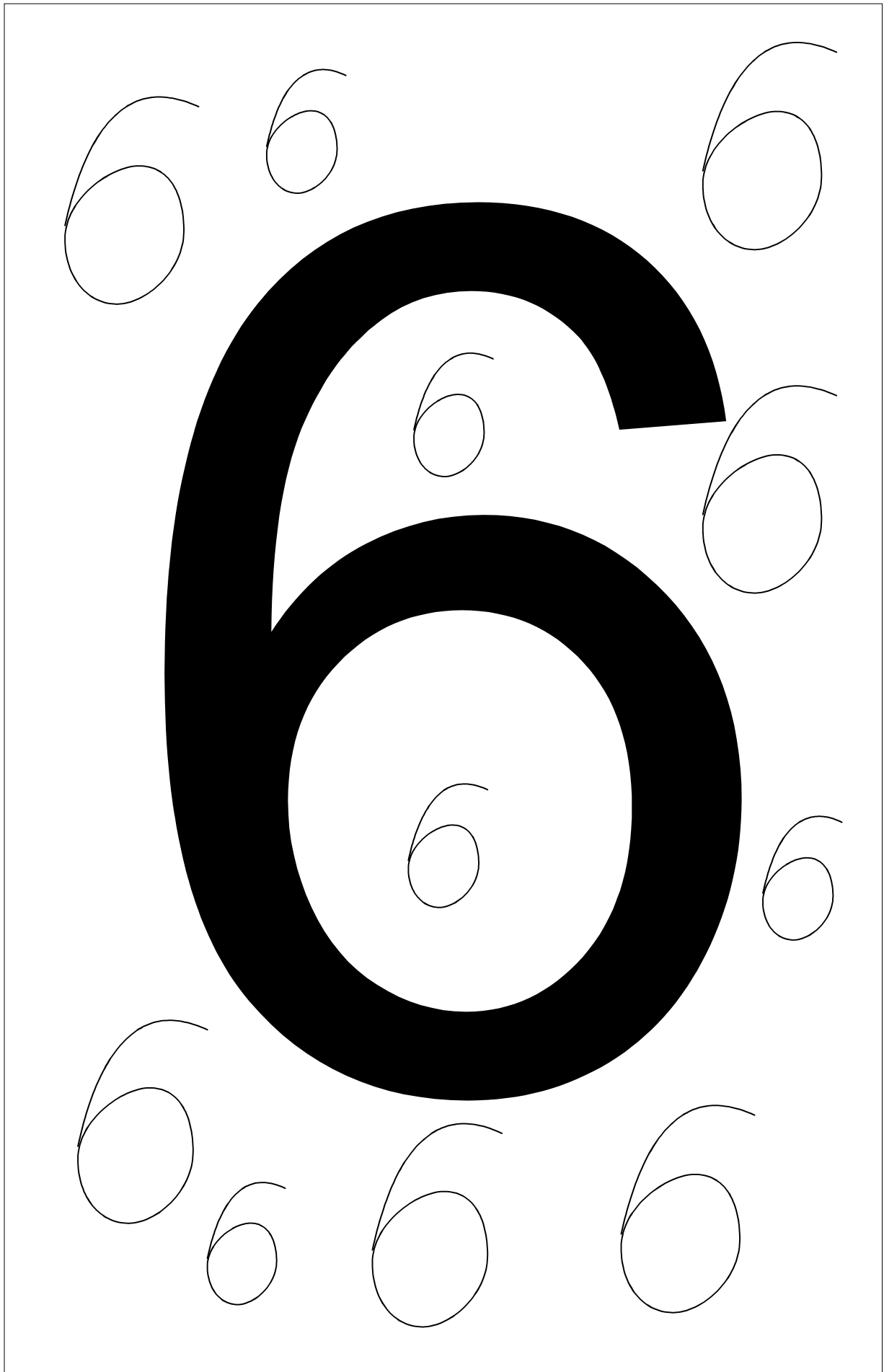
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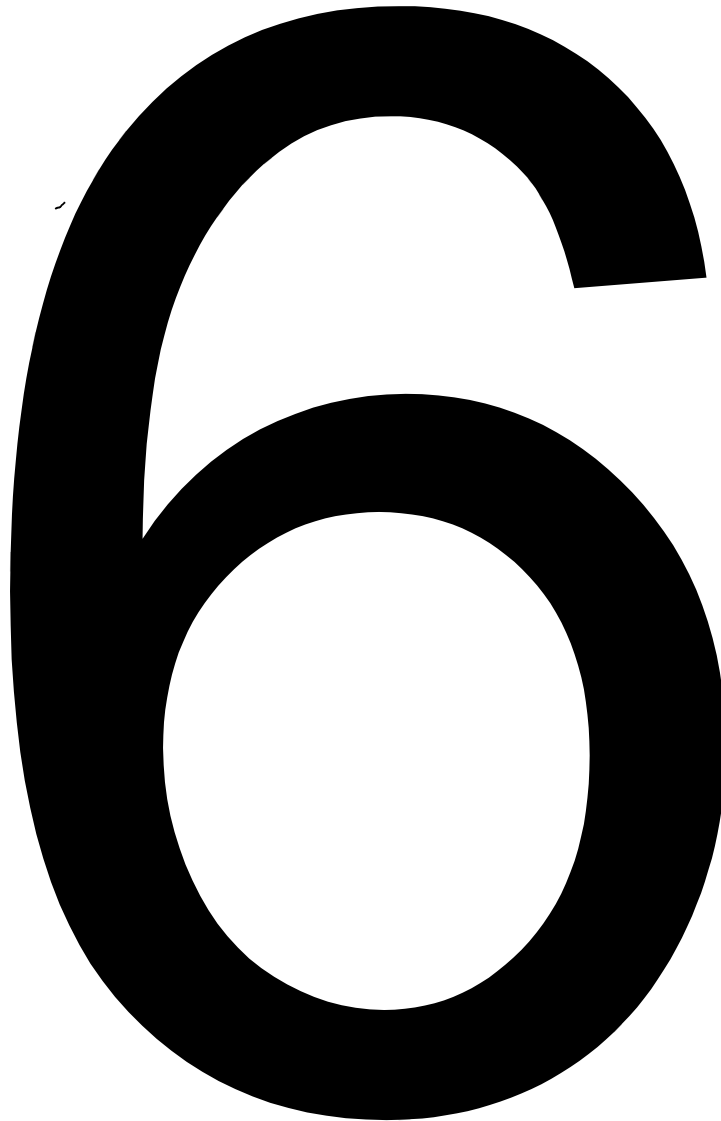
2	4
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1	5
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0	2
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5	3
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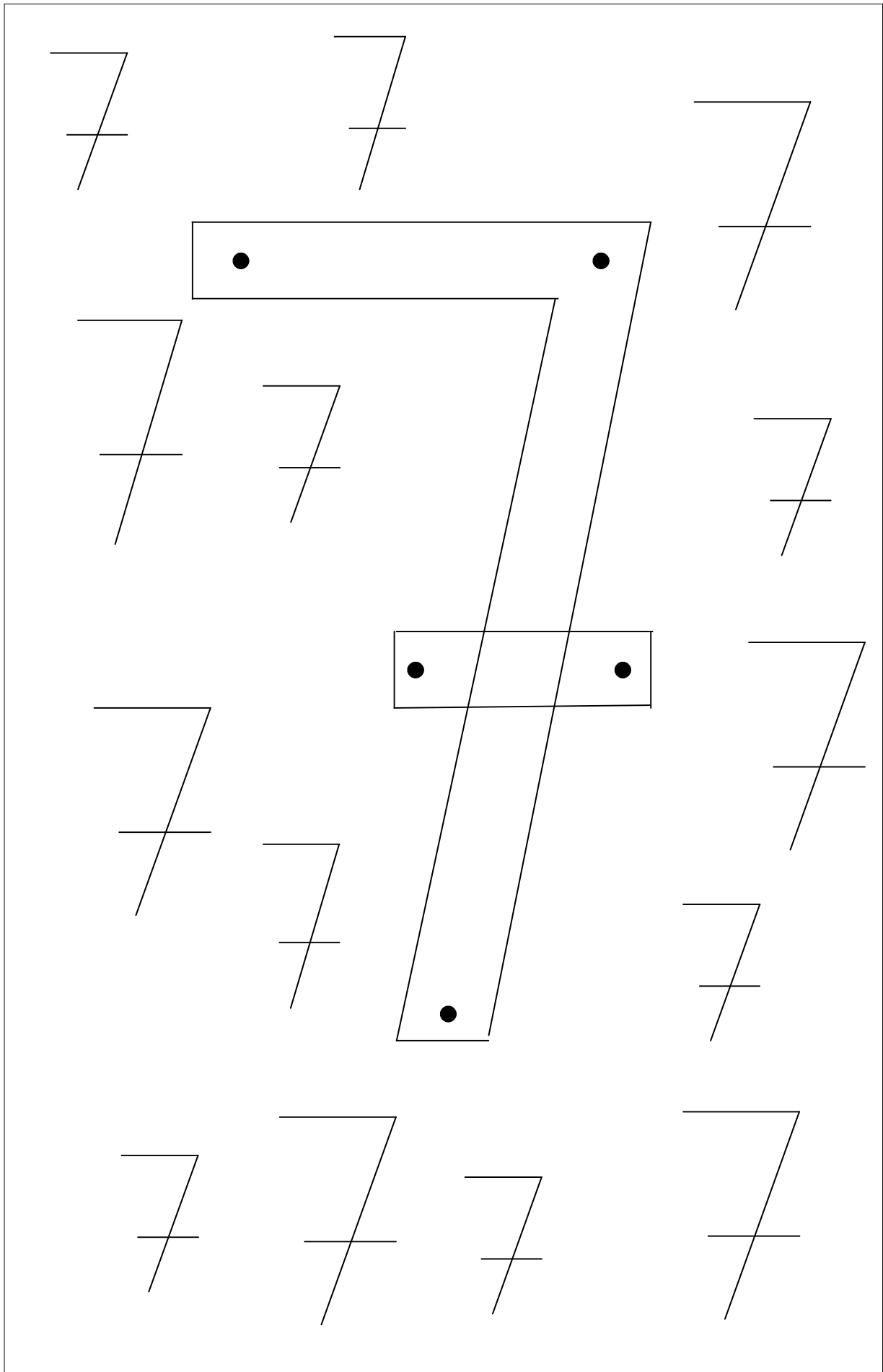
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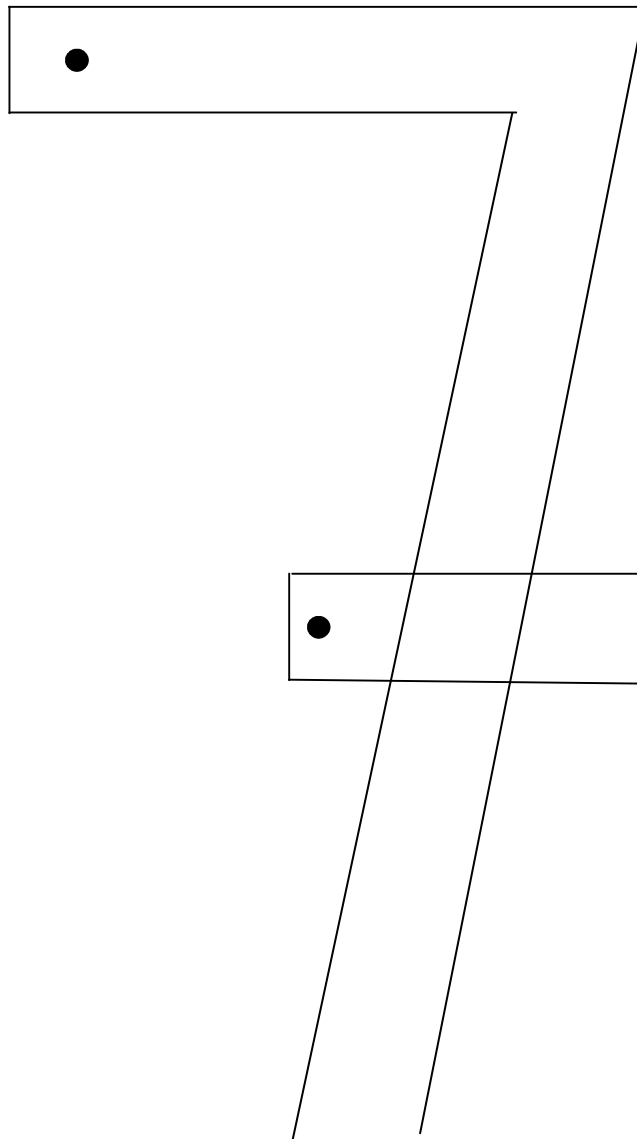
3	6	3	6

2	6	2	6

5	6	5	6

0	6								
1	6								
2	6								
4	6								





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4	3	2
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0	4	3
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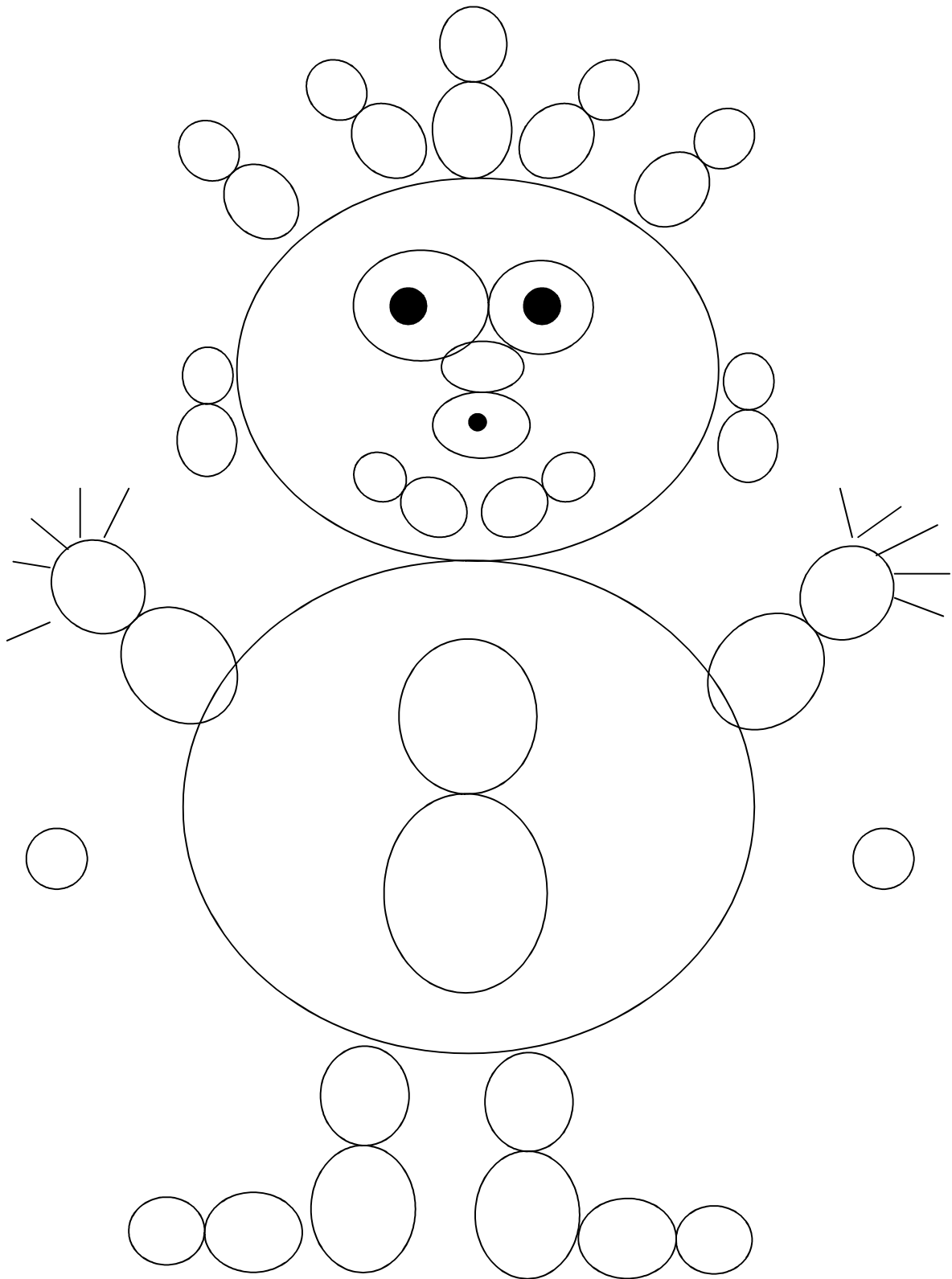
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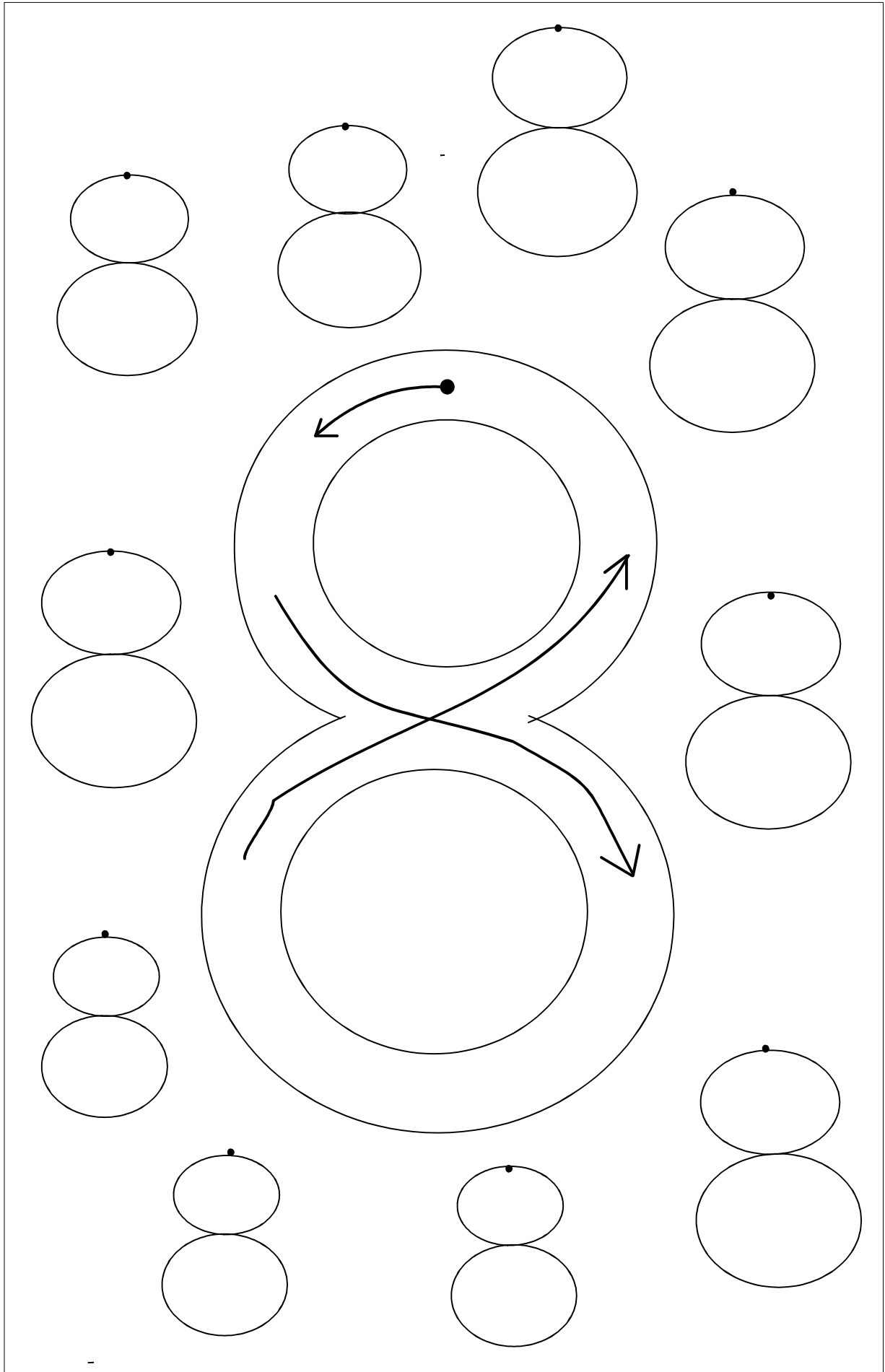
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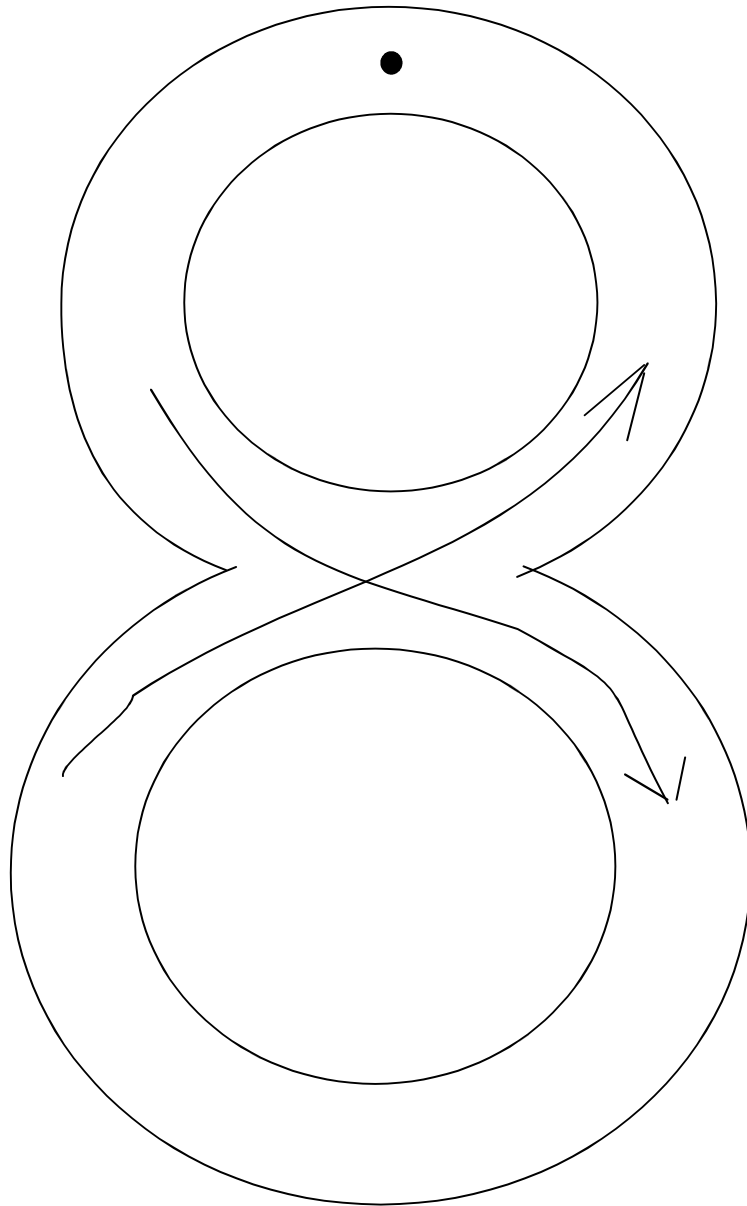
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5	3	0
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FRAU ACHTERMANN



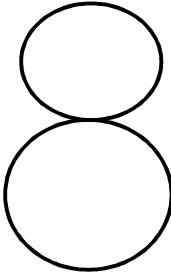
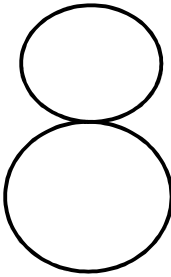
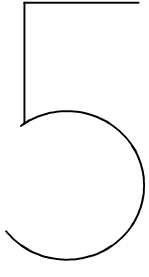
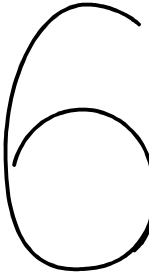
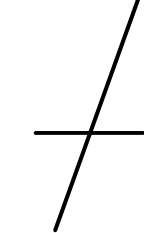
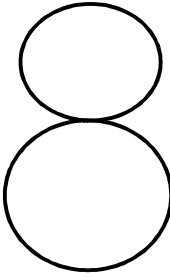




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8									
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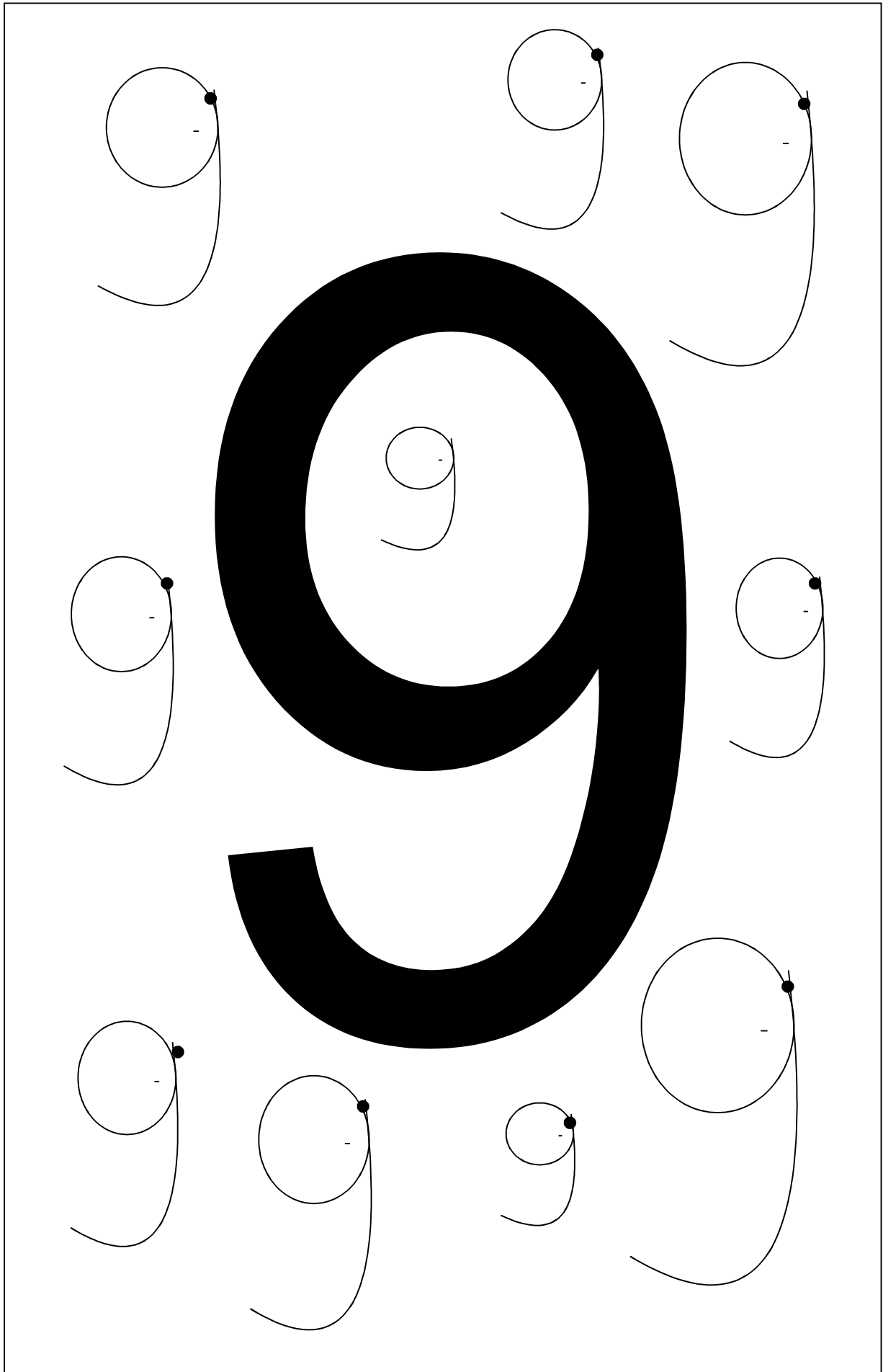
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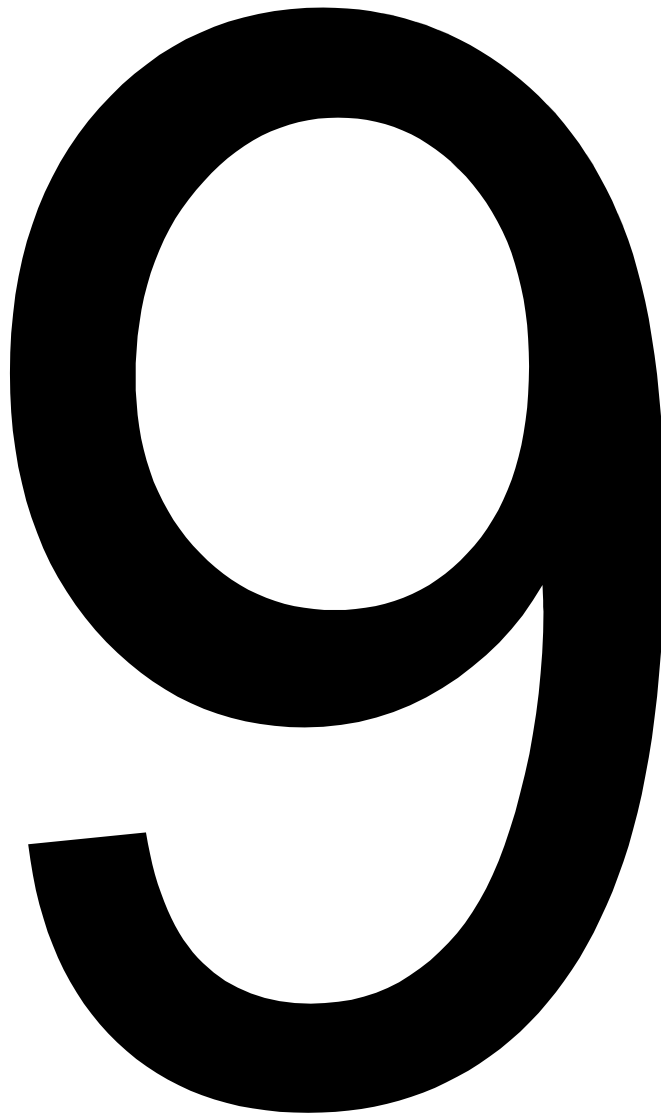
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5	8	5	8

3	8	3	8

8	6								
8	5								
7	8								
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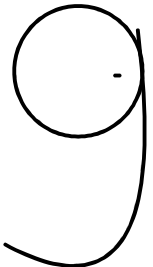
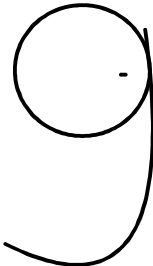
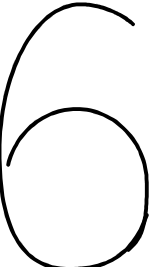
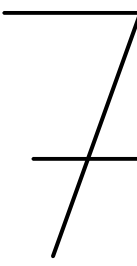
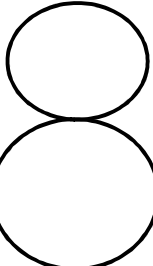
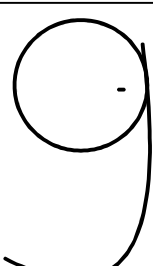




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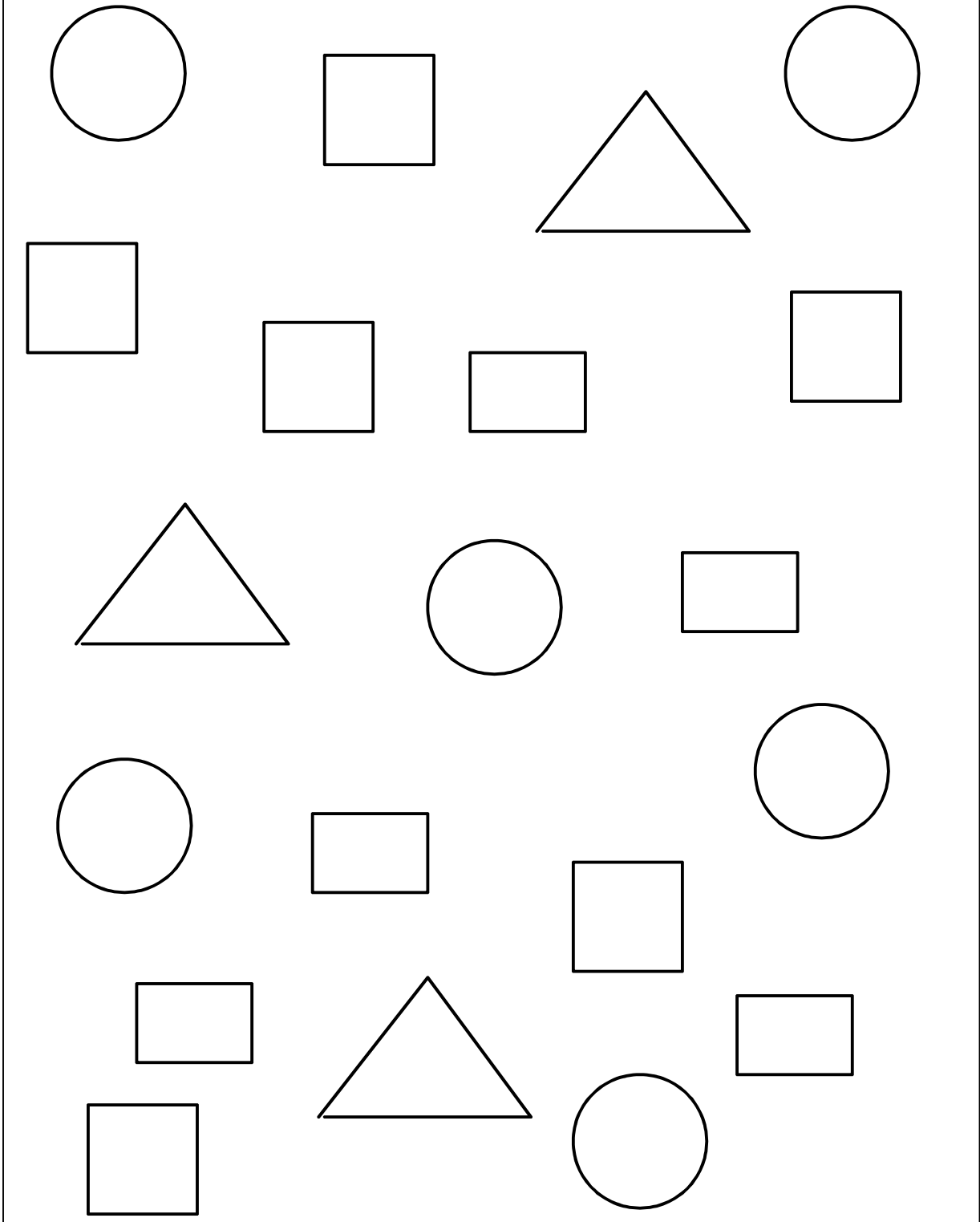
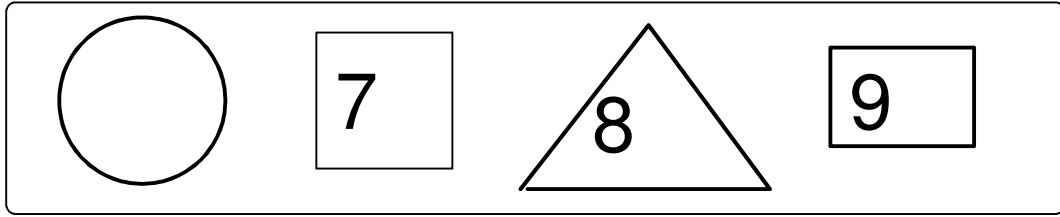
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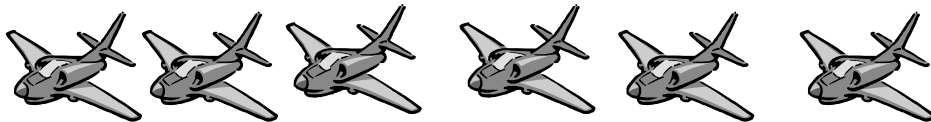
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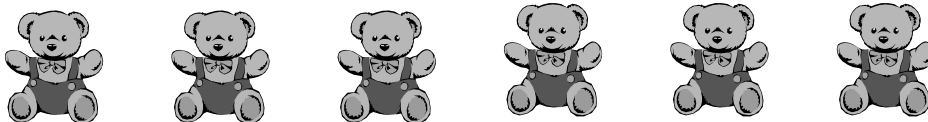
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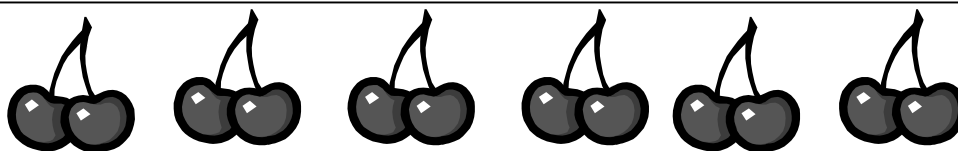
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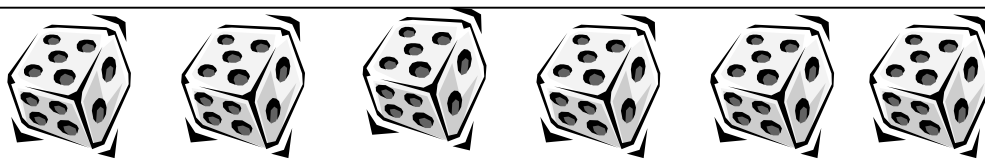
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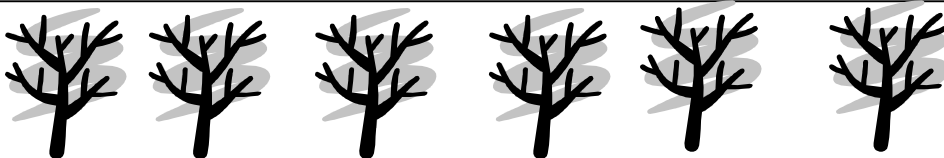
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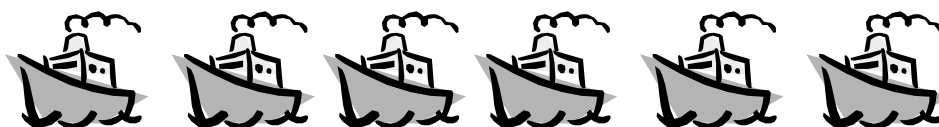
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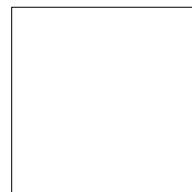
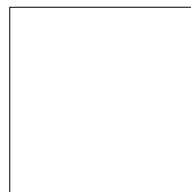
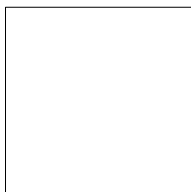
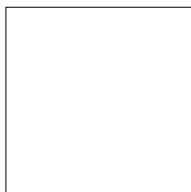
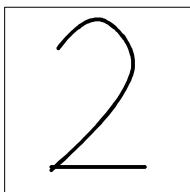
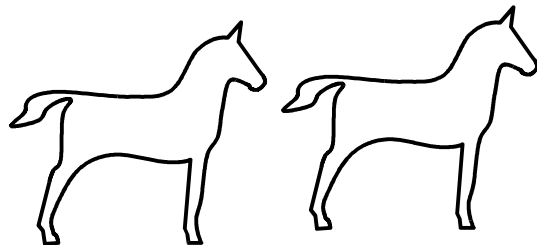
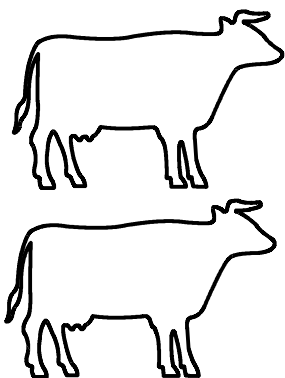
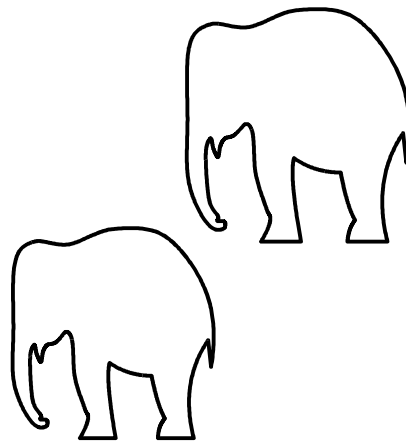
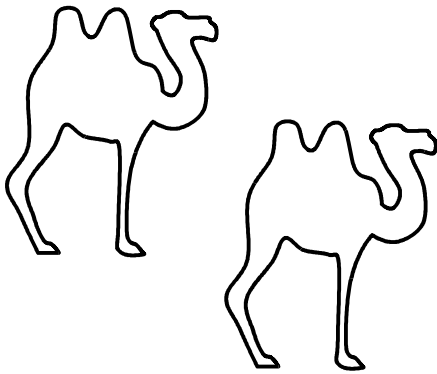
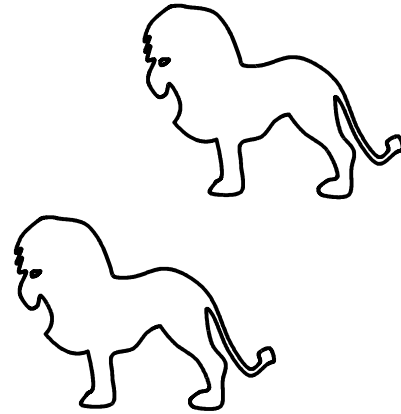
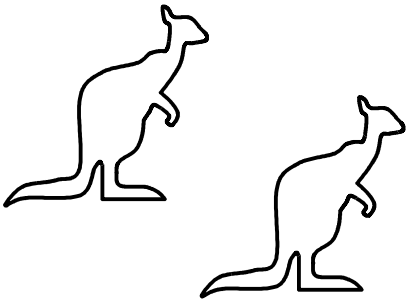
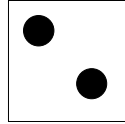
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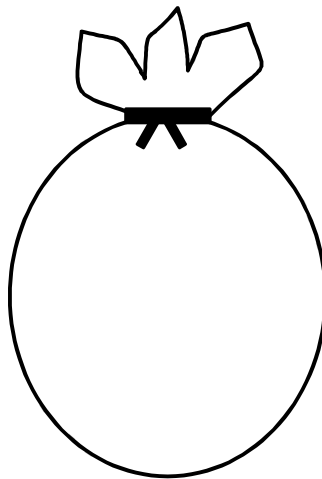
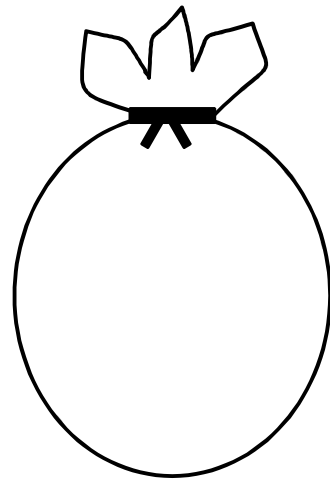
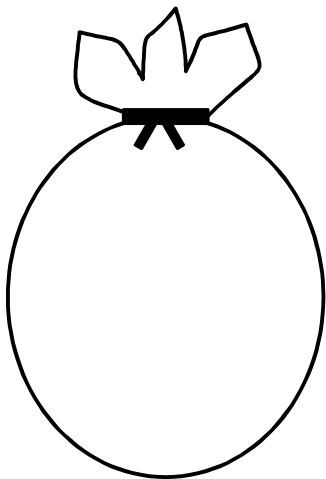
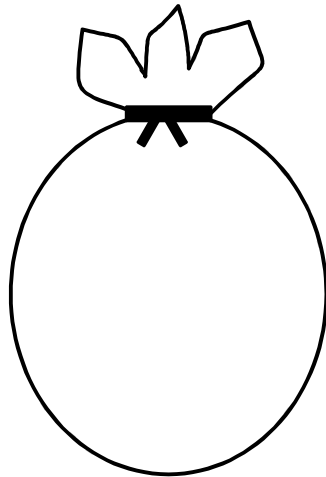
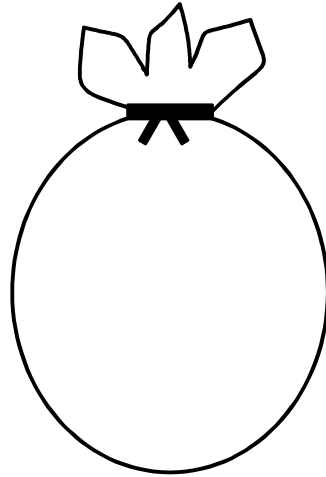
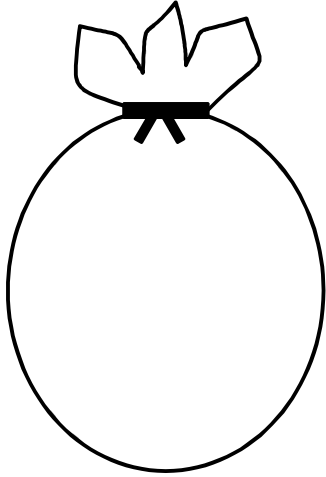
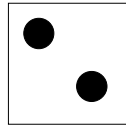
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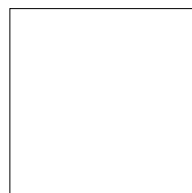
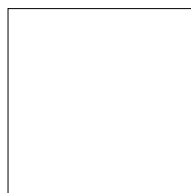
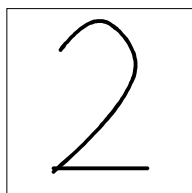
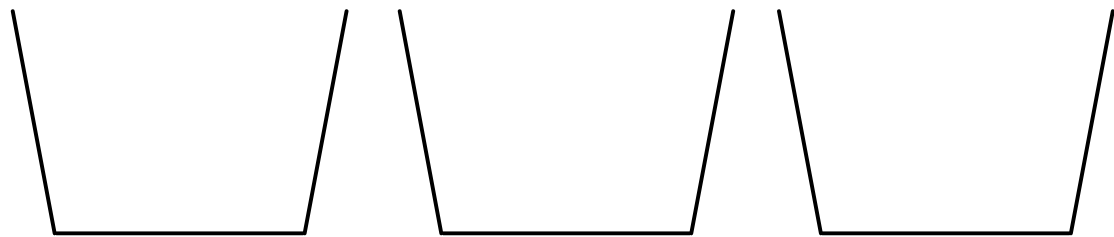
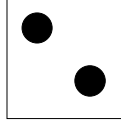
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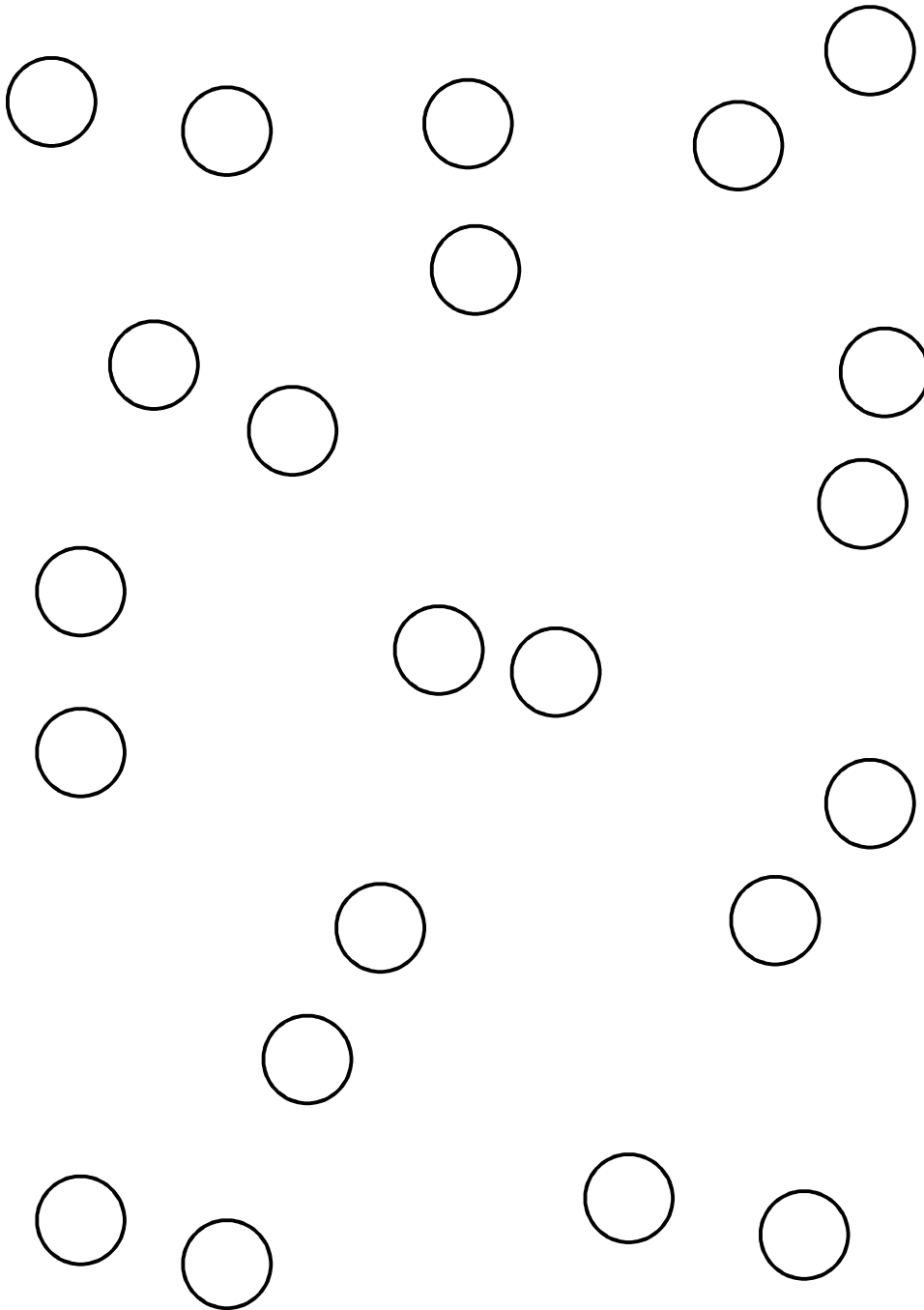
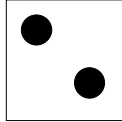
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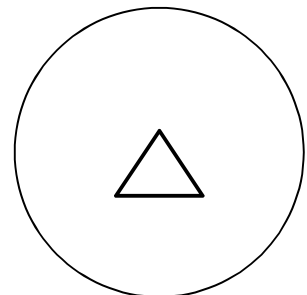
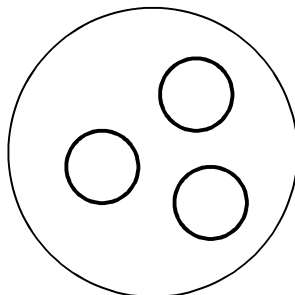
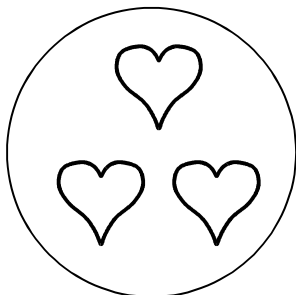
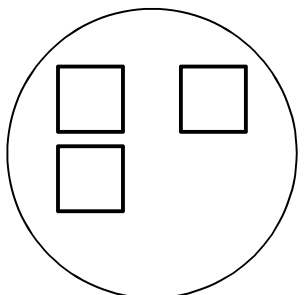
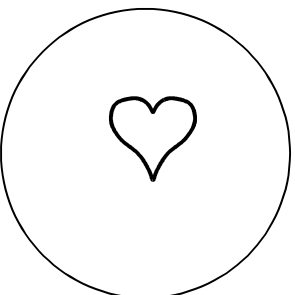
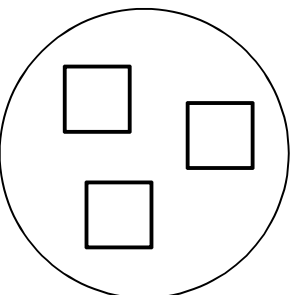
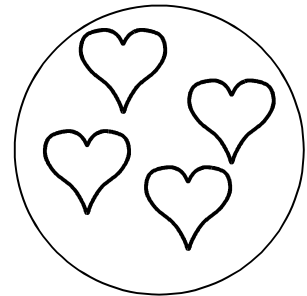
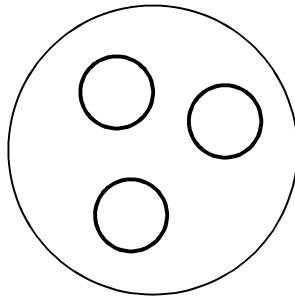
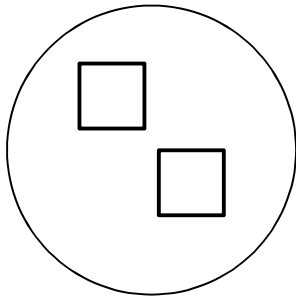
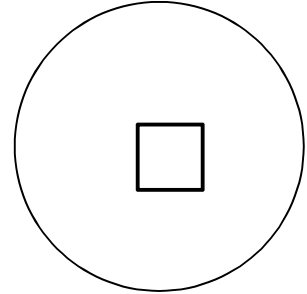
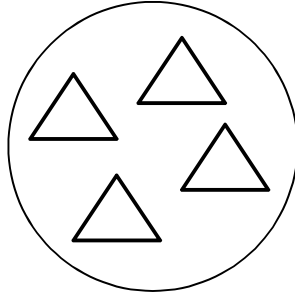
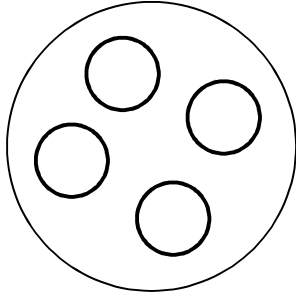
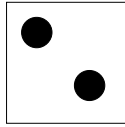
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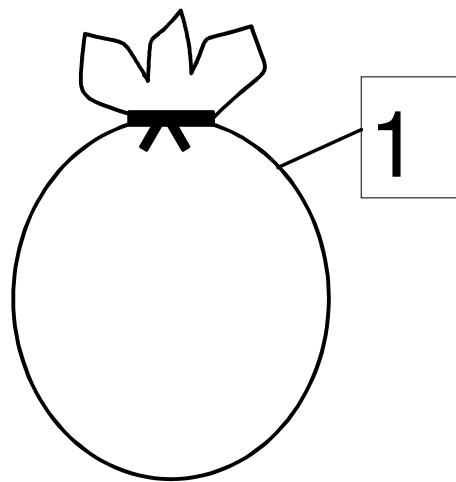
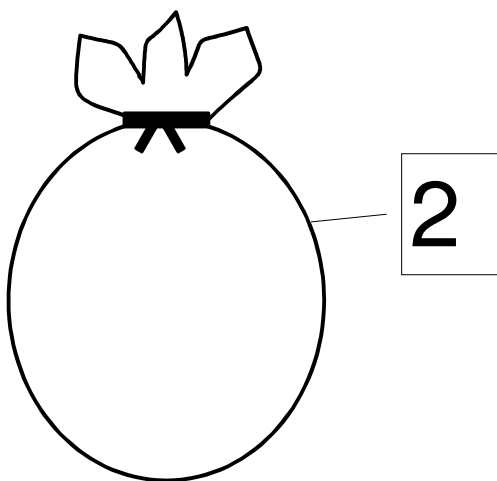
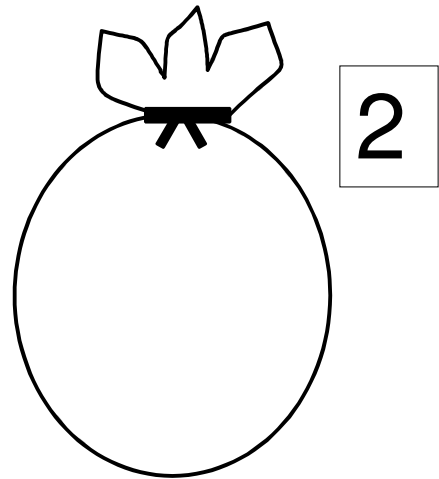
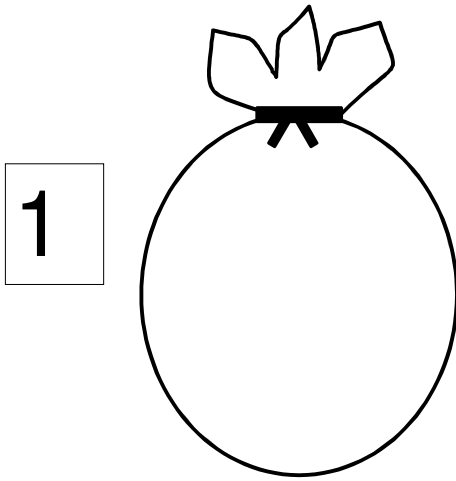
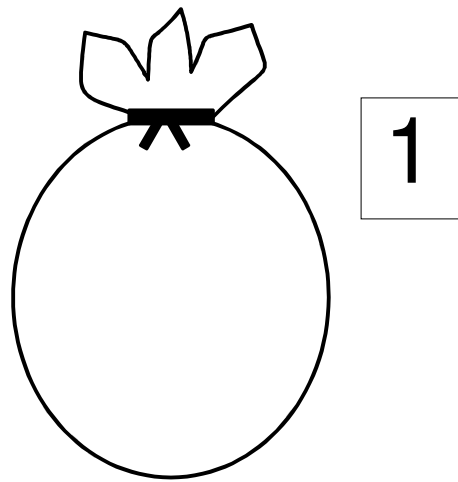
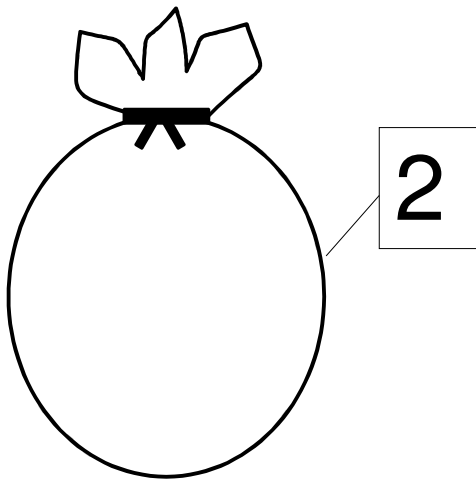
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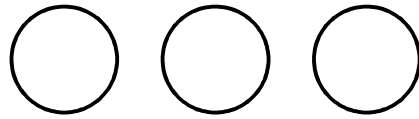
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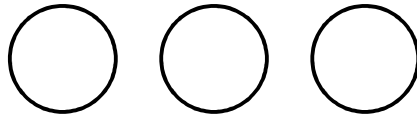




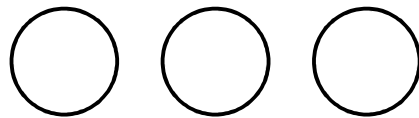
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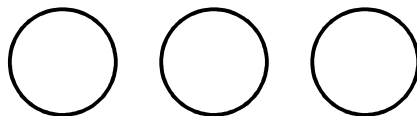
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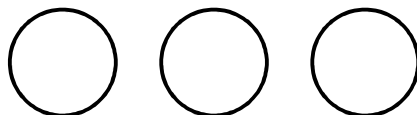
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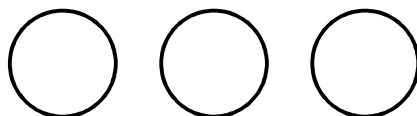
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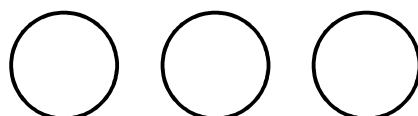
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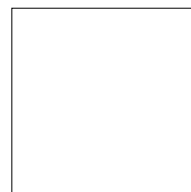
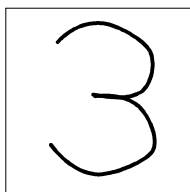
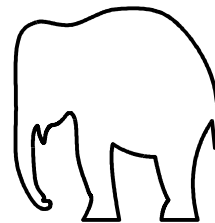
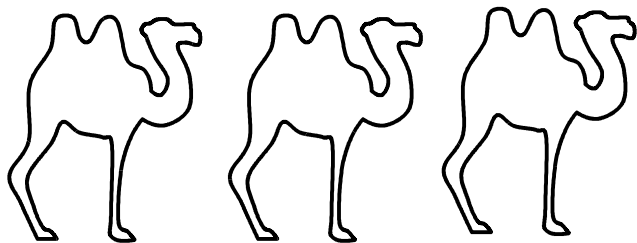
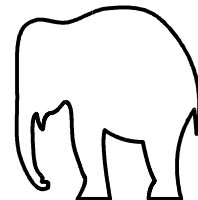
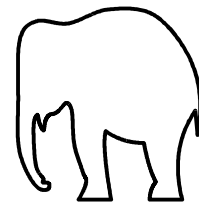
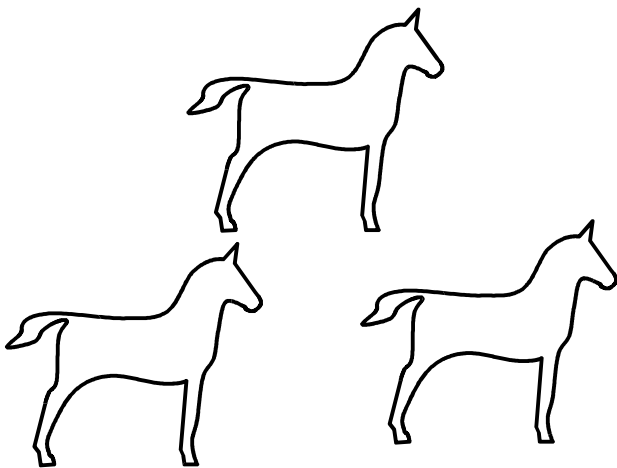
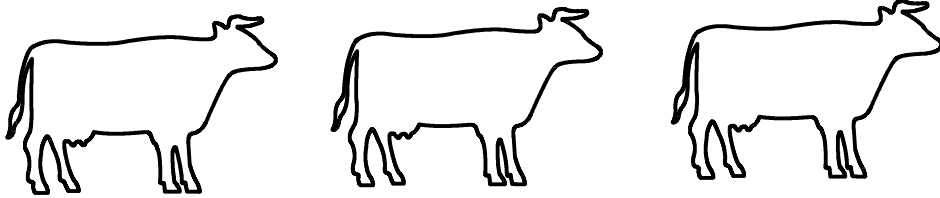
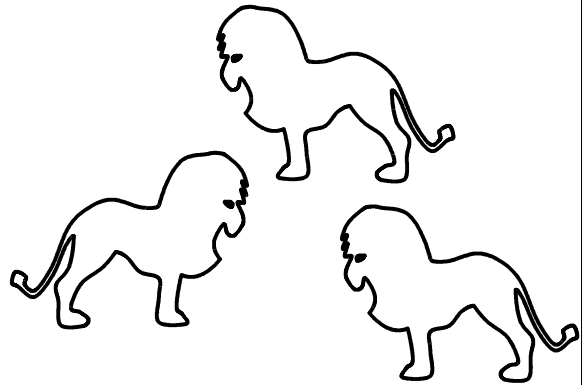
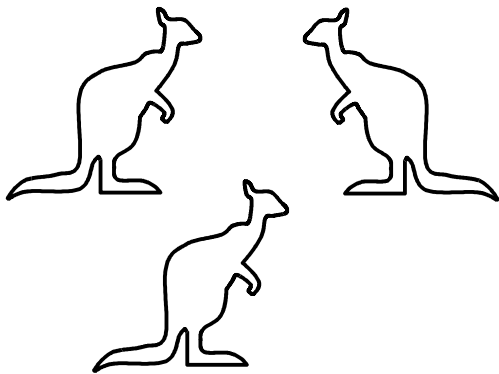
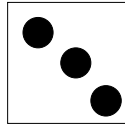


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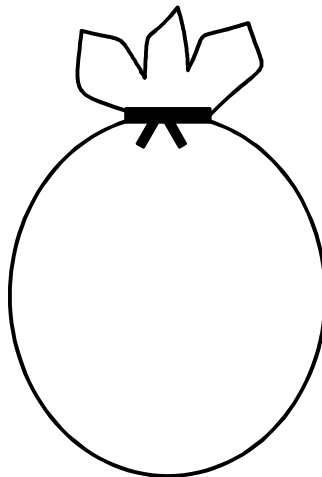
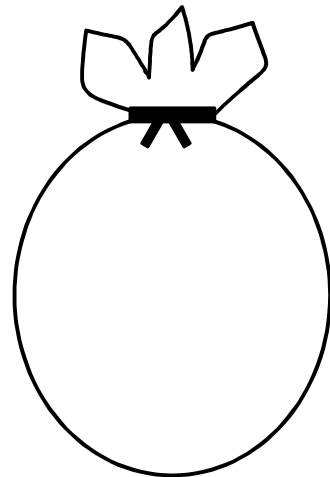
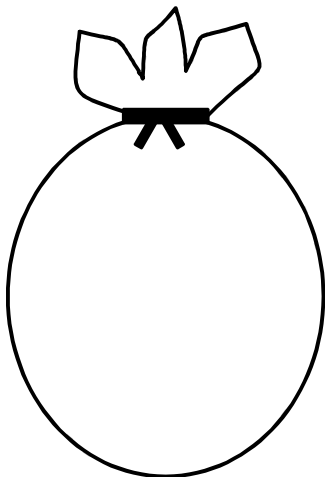
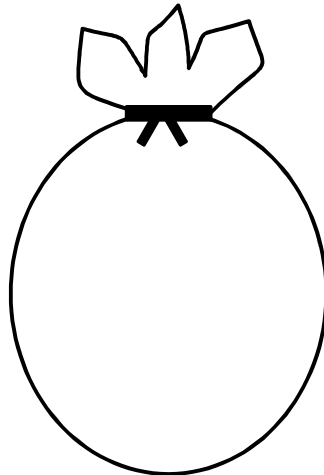
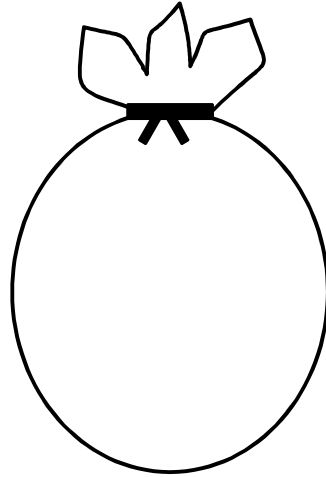
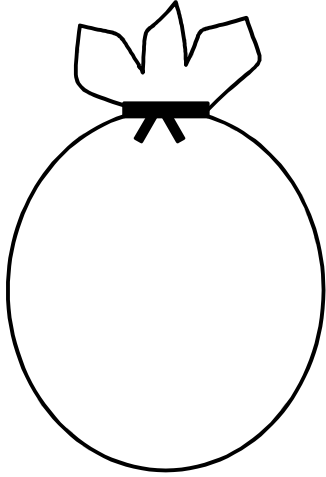


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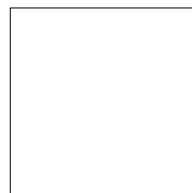
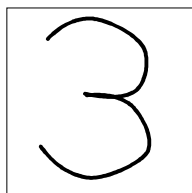
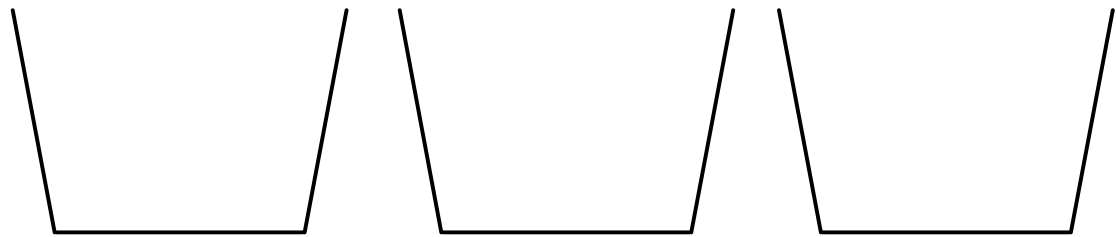
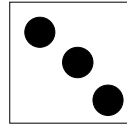


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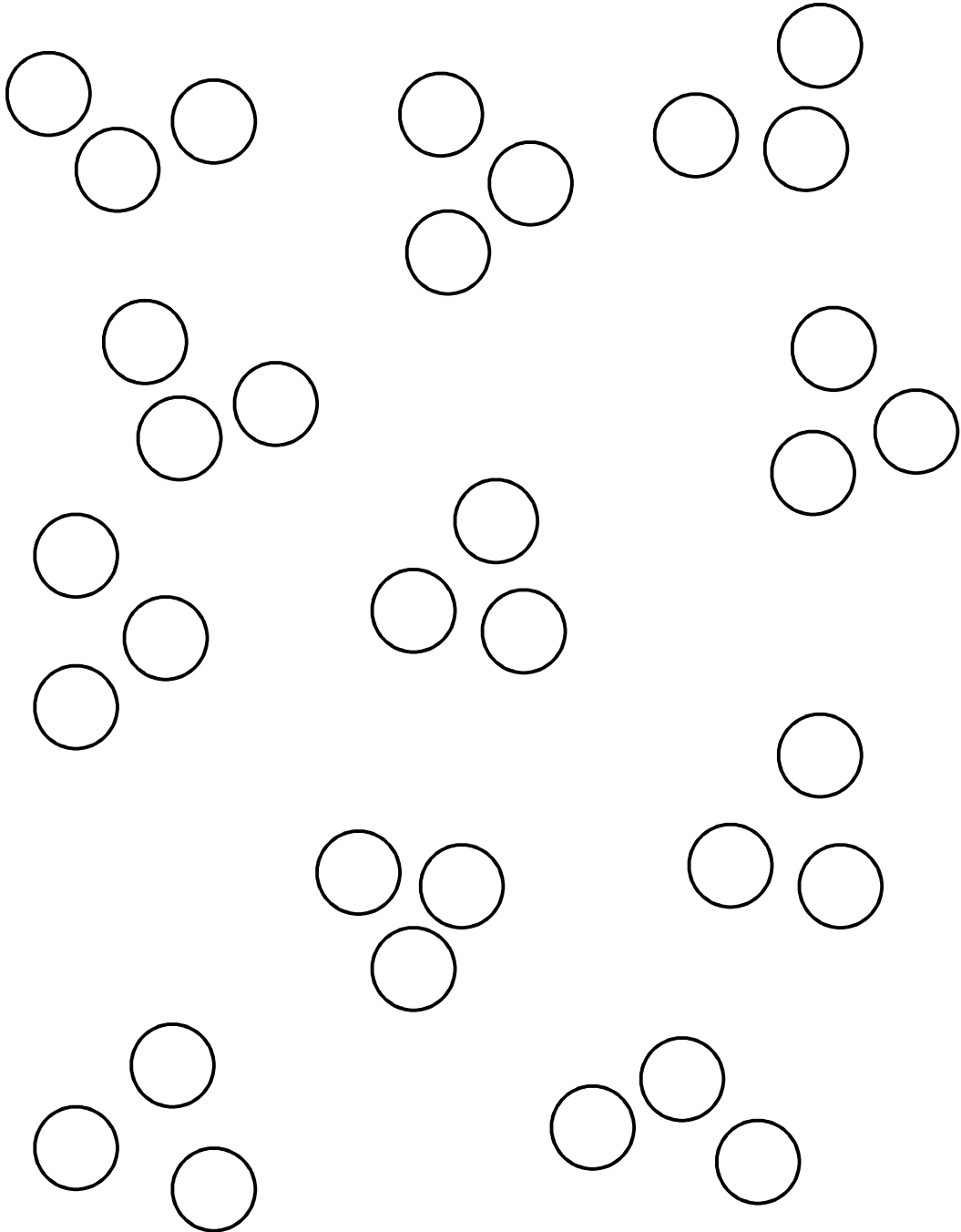
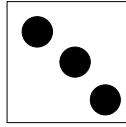


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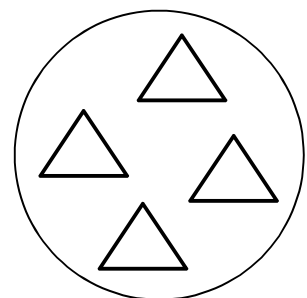
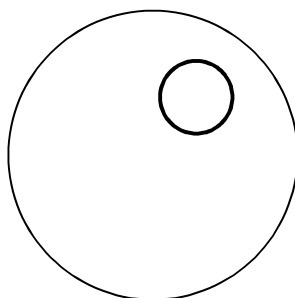
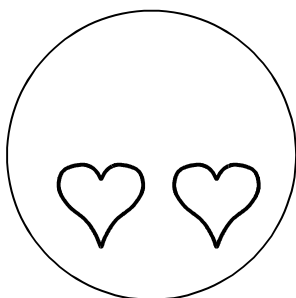
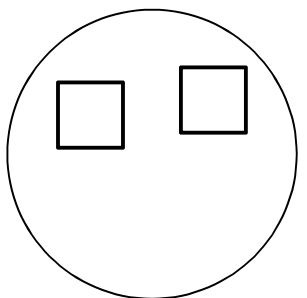
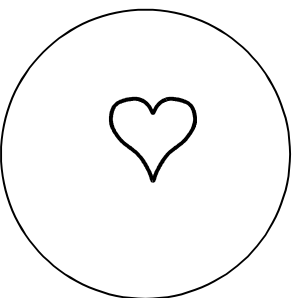
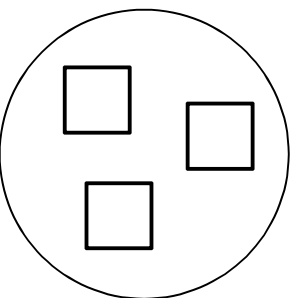
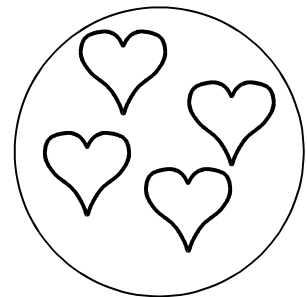
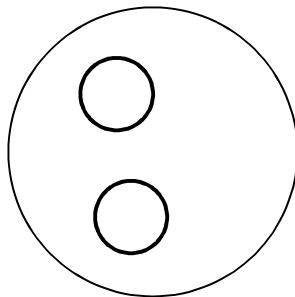
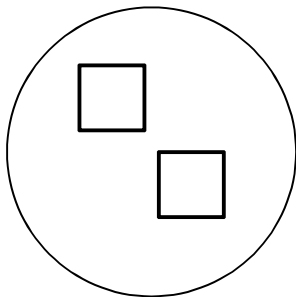
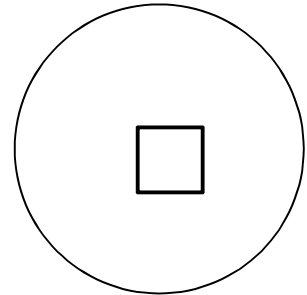
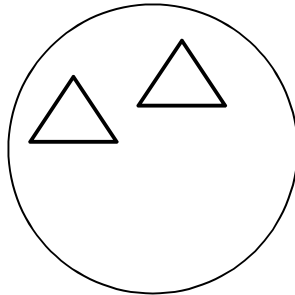
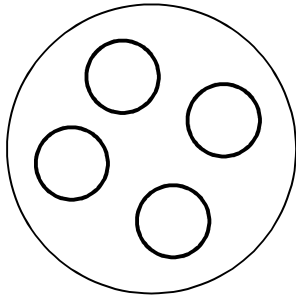
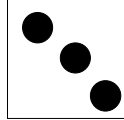
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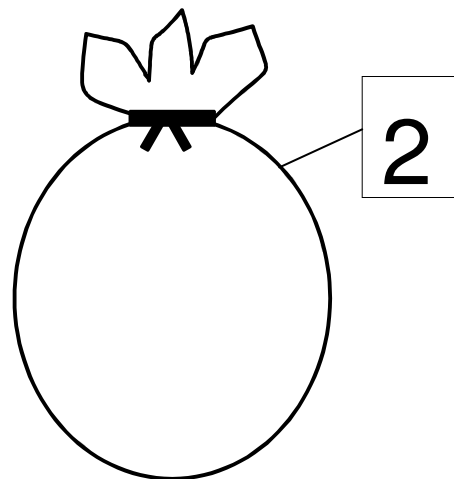
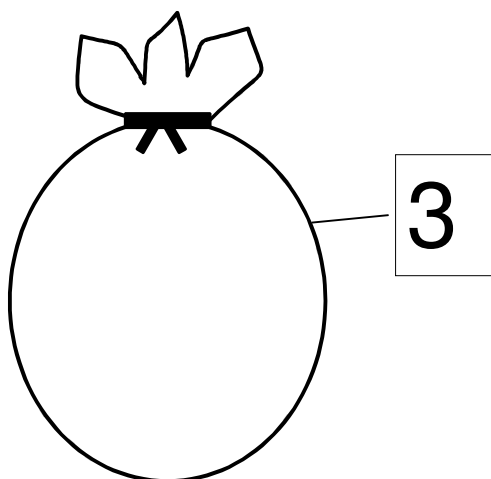
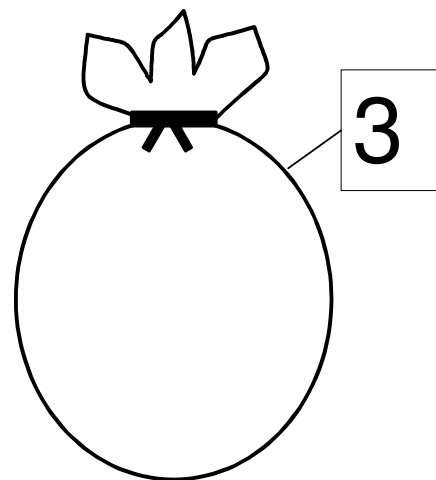
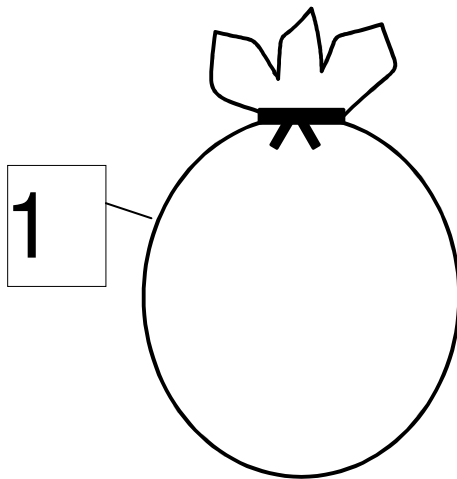
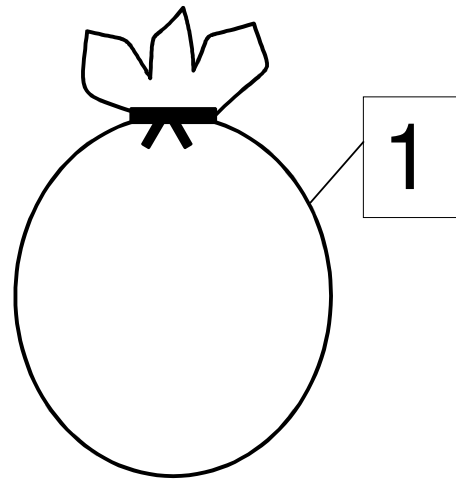
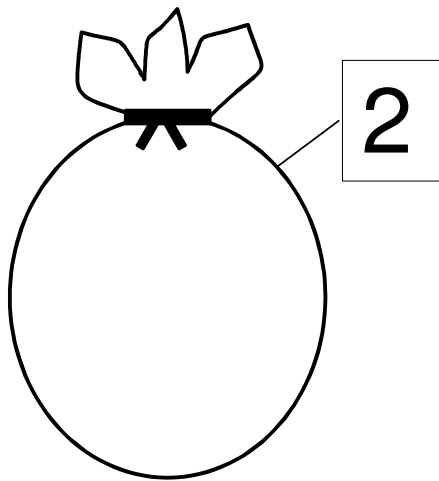


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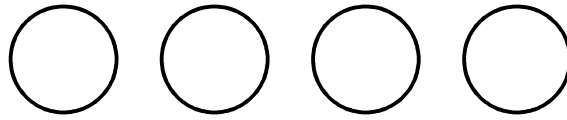
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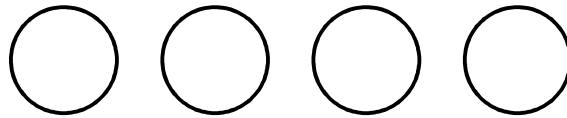




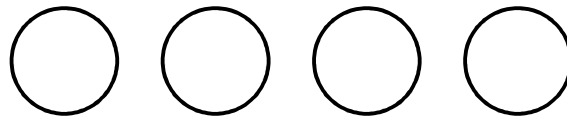
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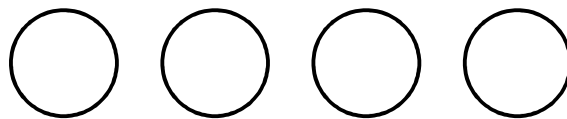
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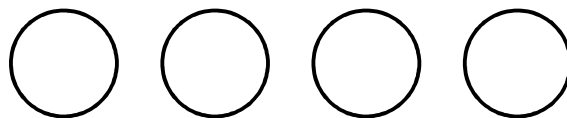
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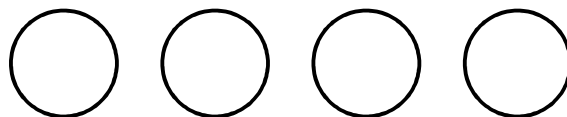
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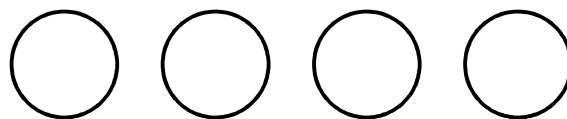
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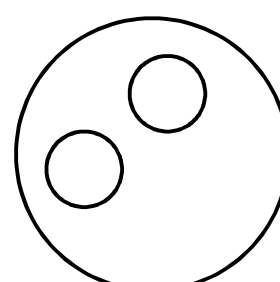
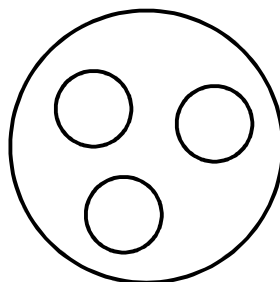
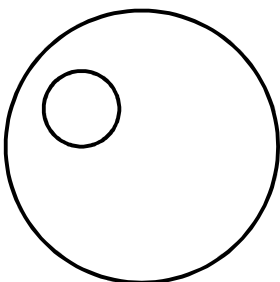
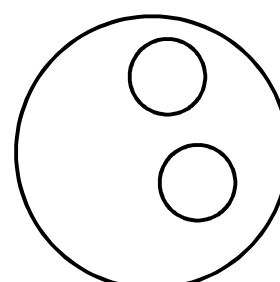
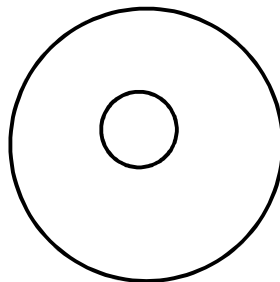
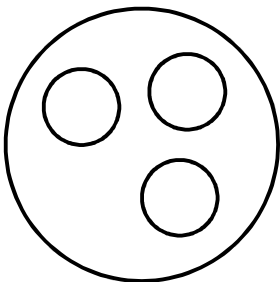
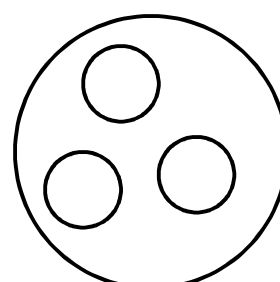
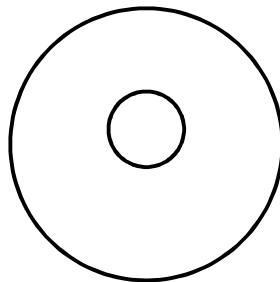
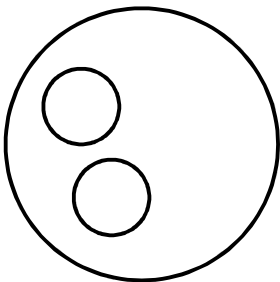
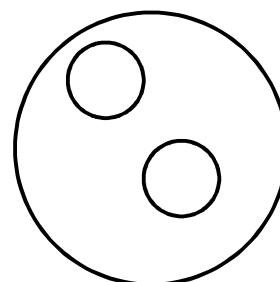
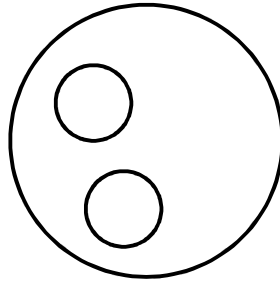
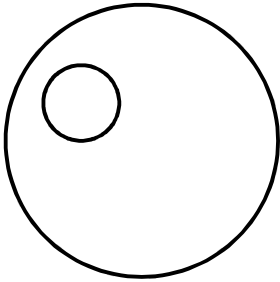
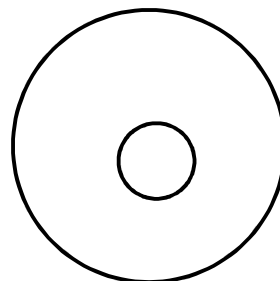
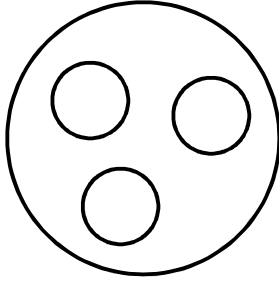
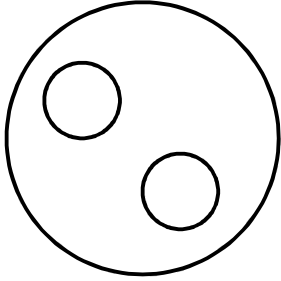
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2 grün

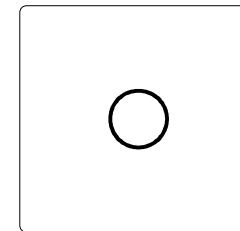
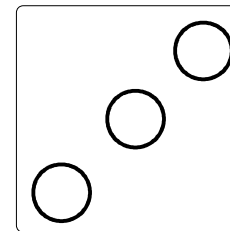
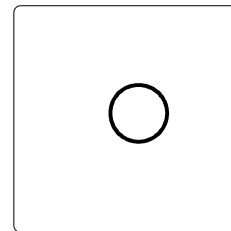
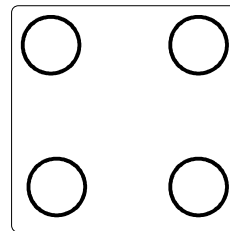
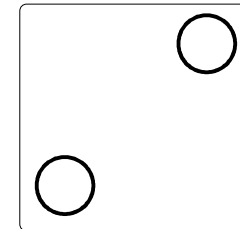
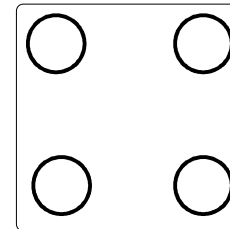
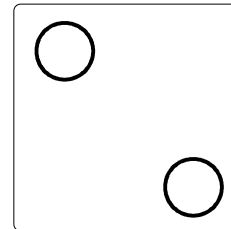
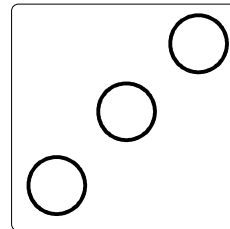
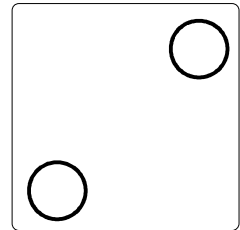
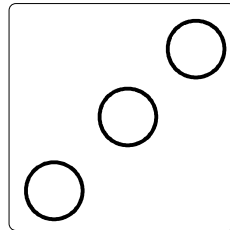
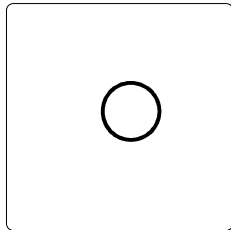
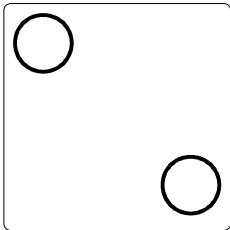
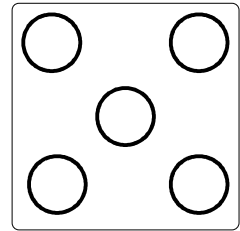
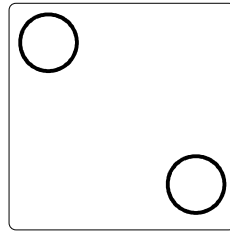
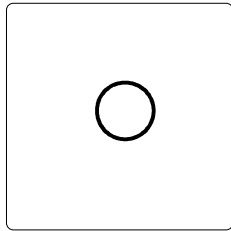
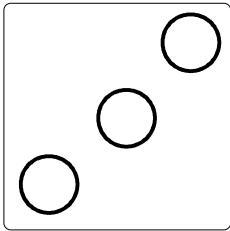
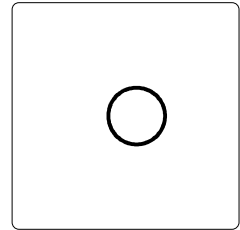
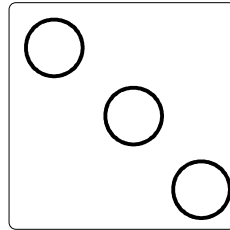
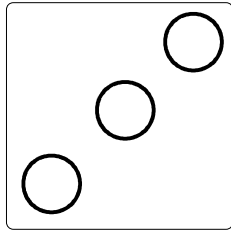
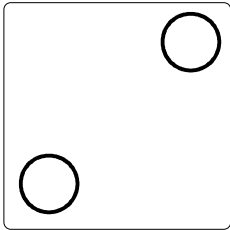
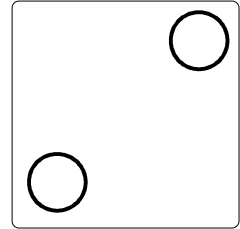
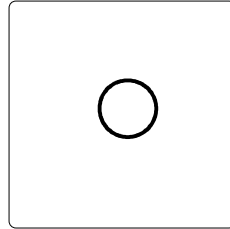
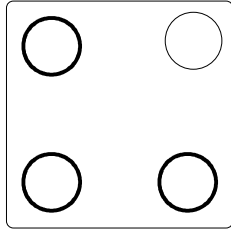
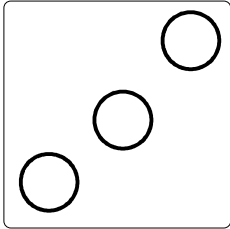
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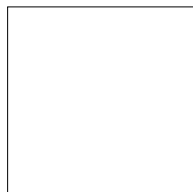
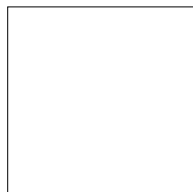
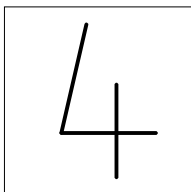
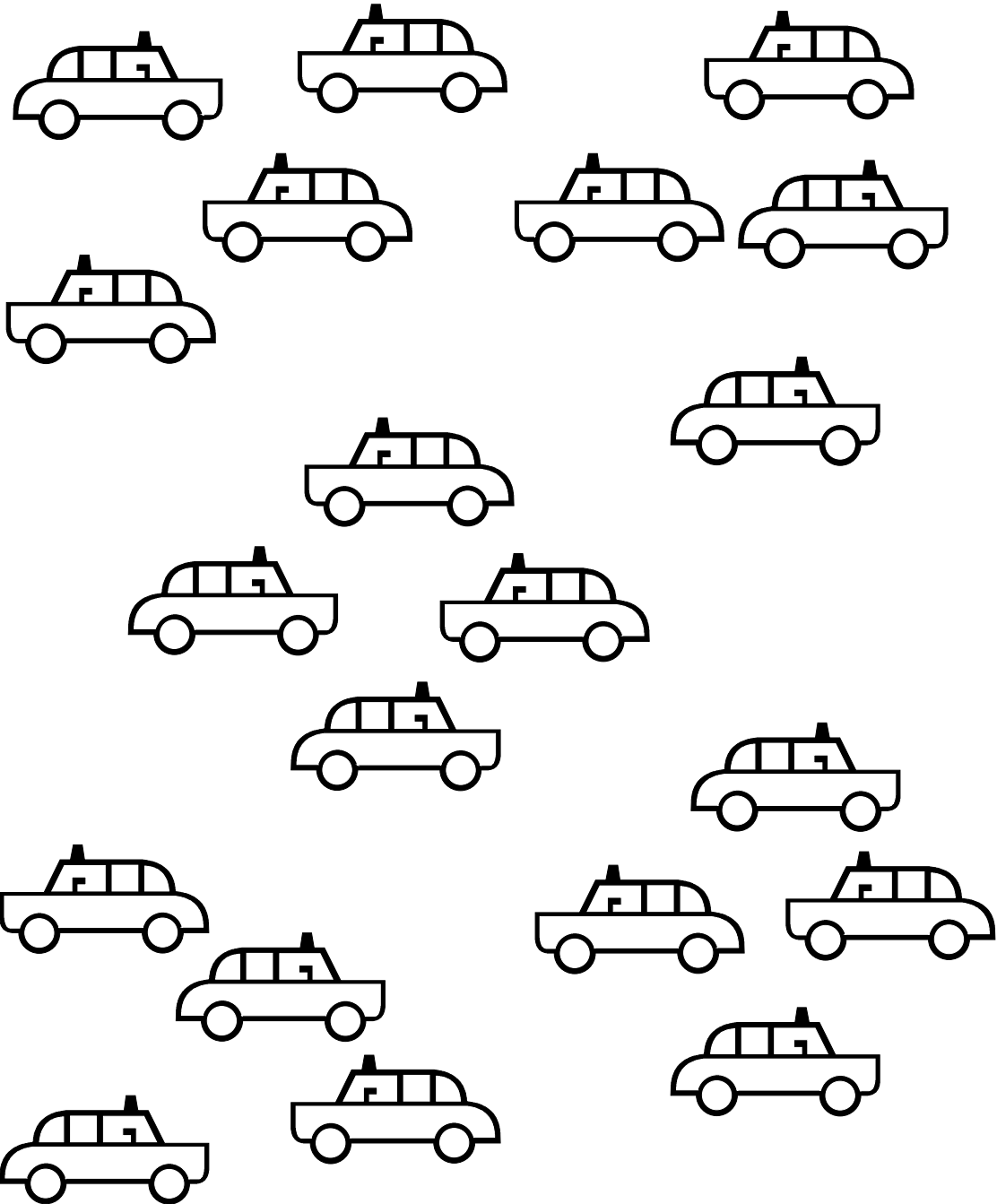
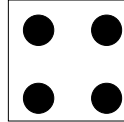
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3 GRÜN

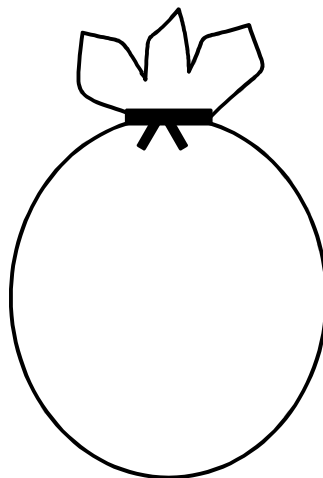
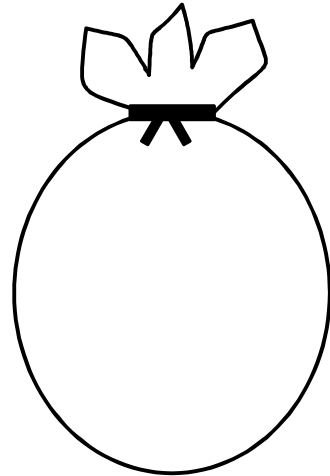
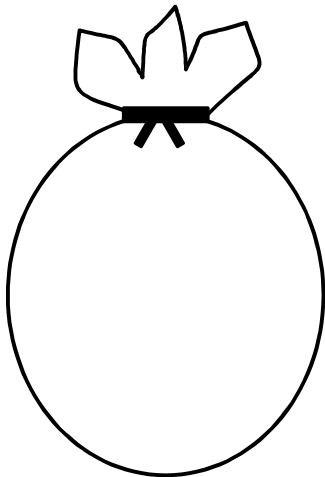
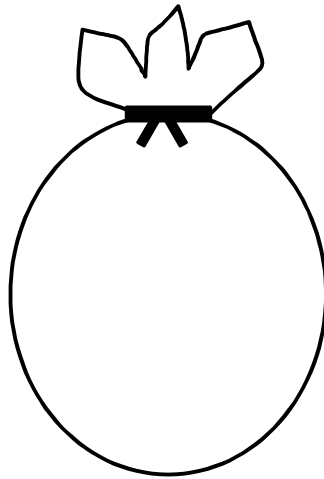
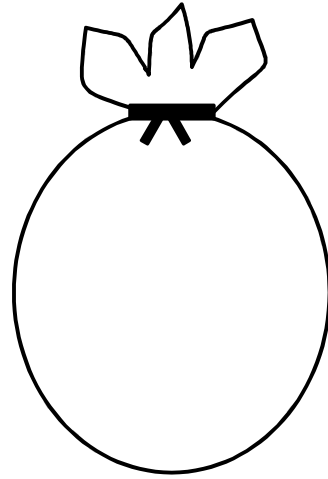
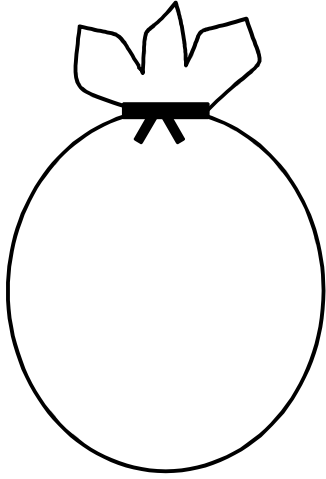


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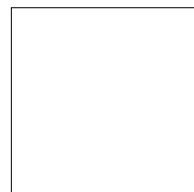
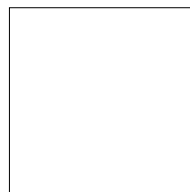
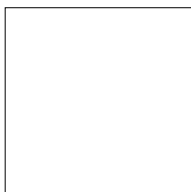
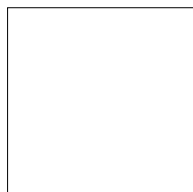
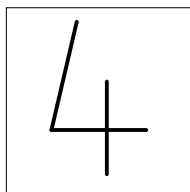
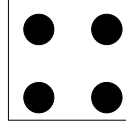
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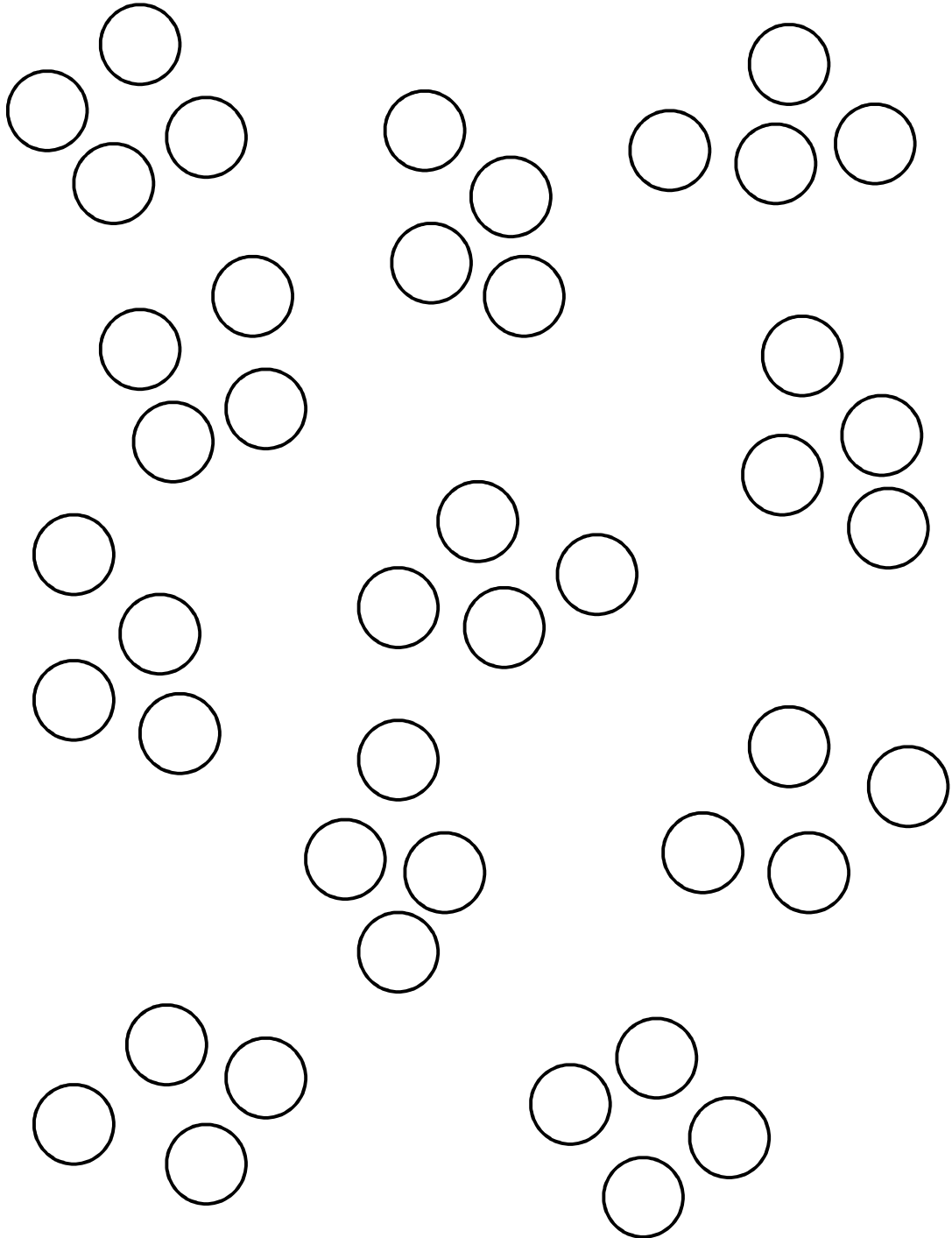
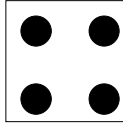


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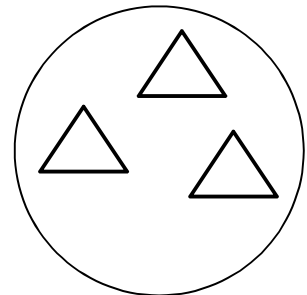
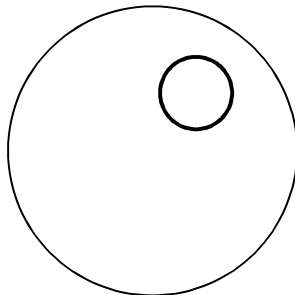
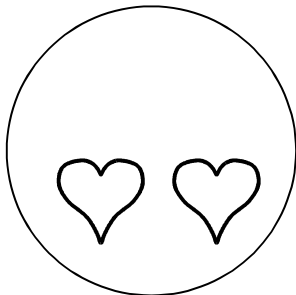
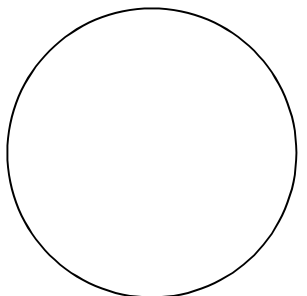
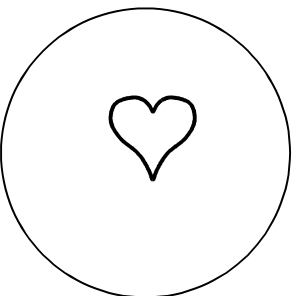
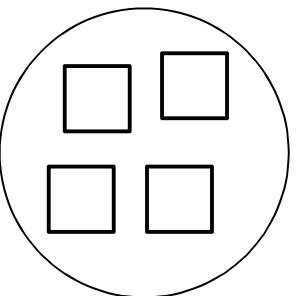
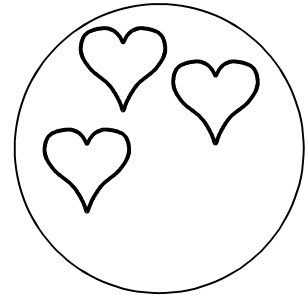
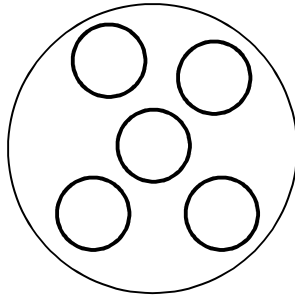
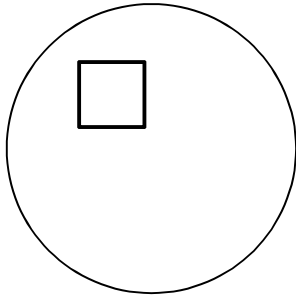
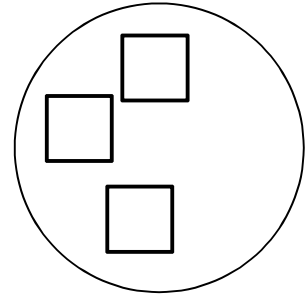
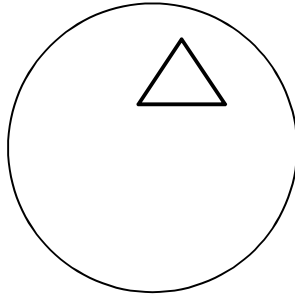
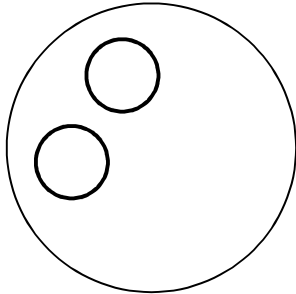
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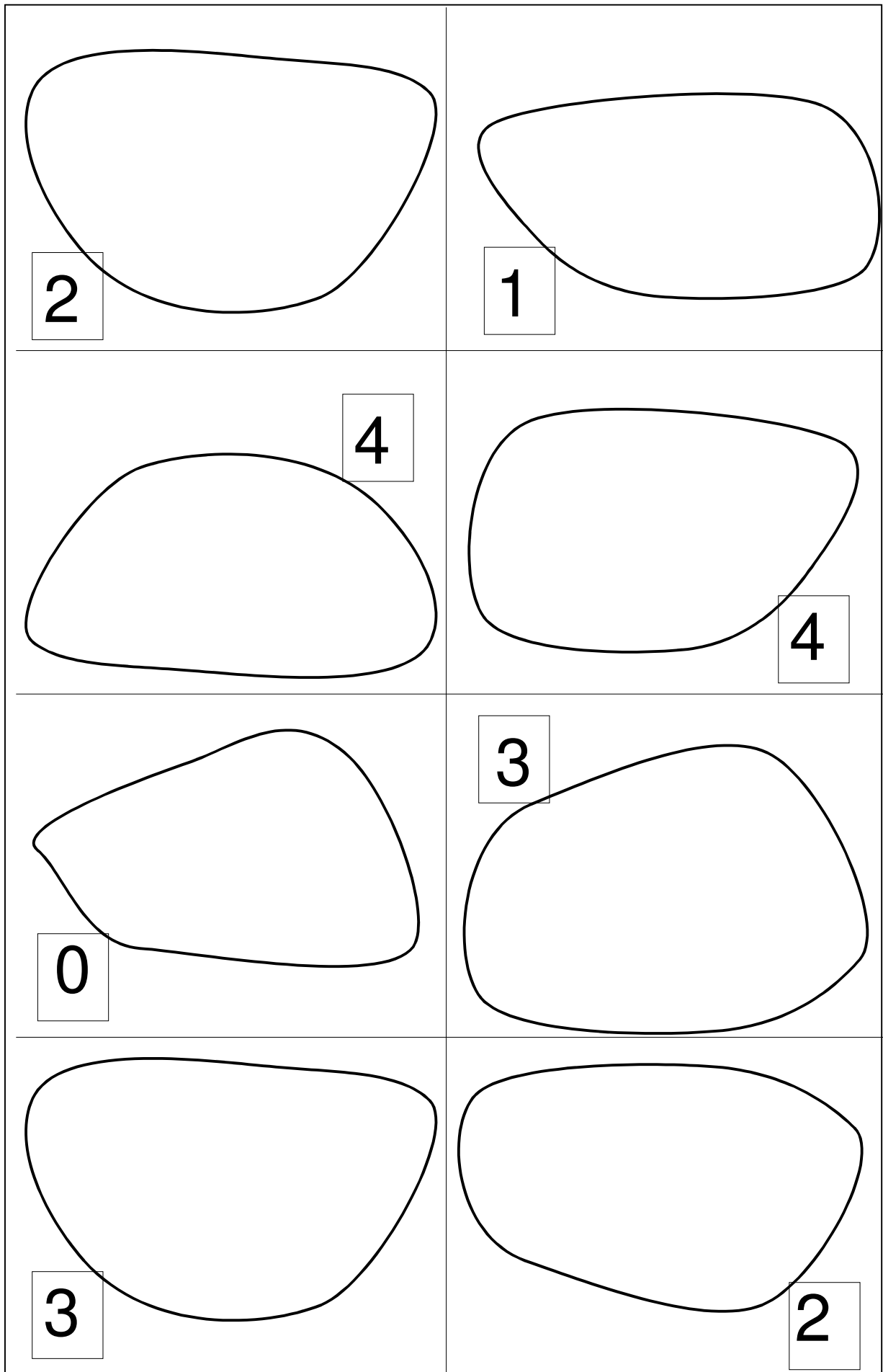
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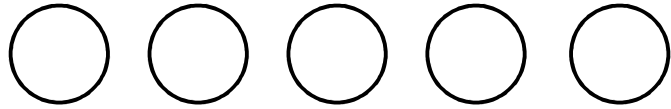
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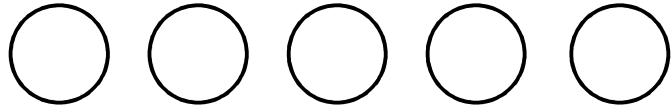




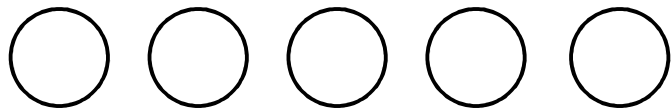
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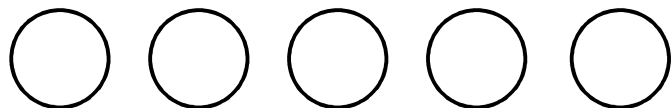
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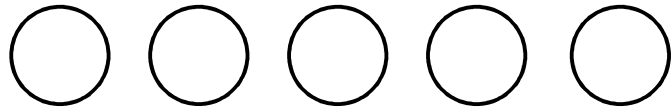
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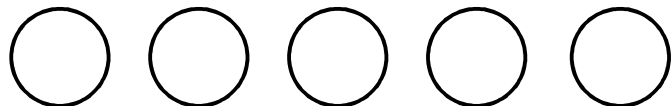
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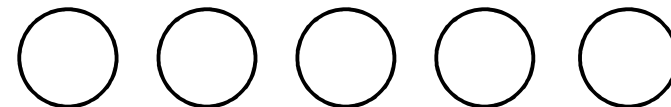
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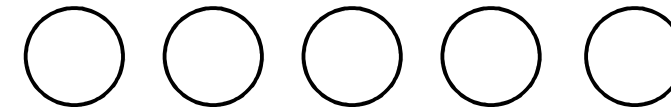
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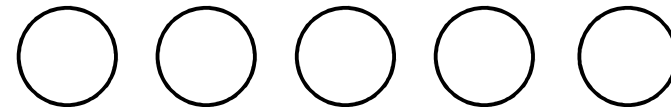
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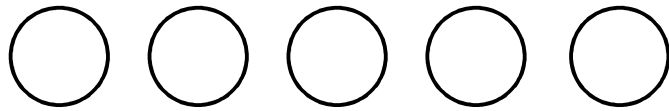


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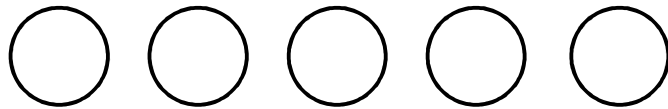




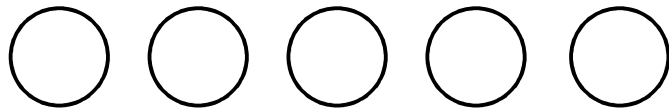
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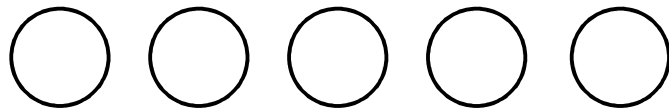
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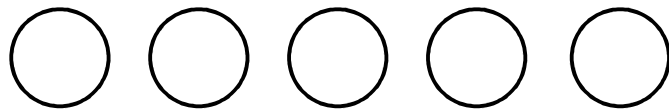
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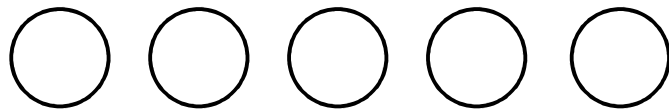
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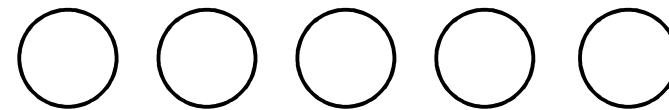
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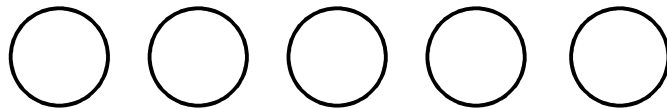
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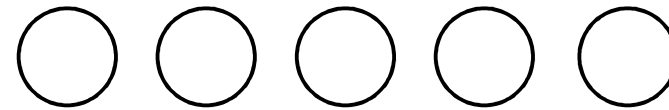
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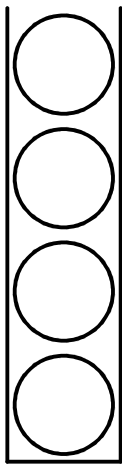
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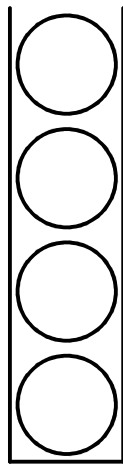
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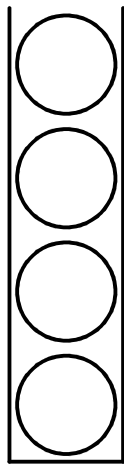
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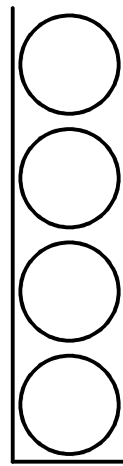
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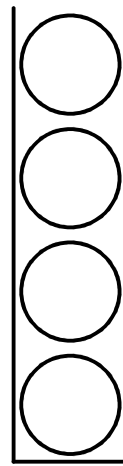
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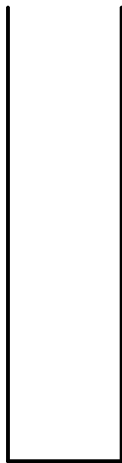


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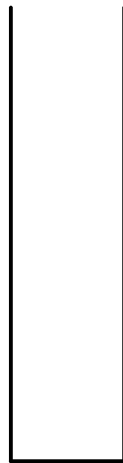


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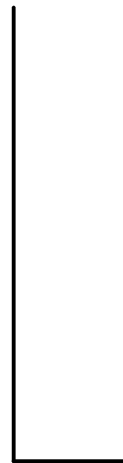
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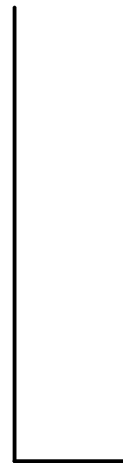
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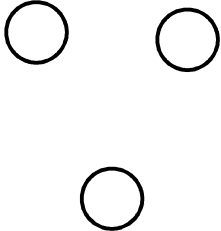
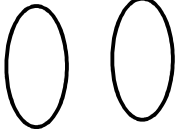

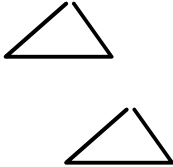
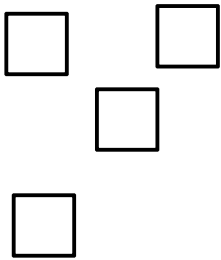

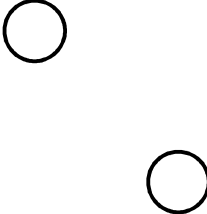
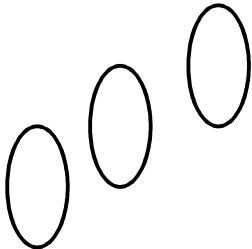

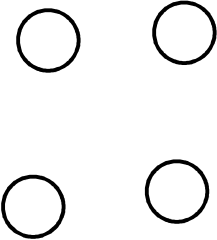
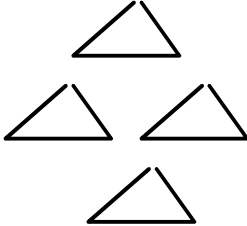

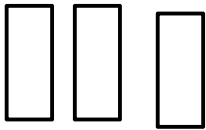
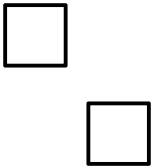
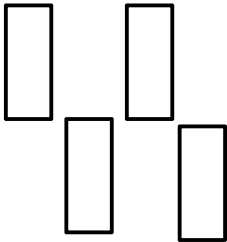
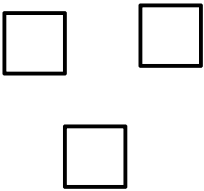
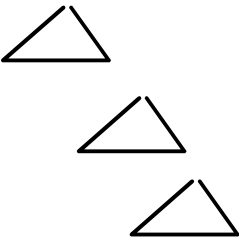
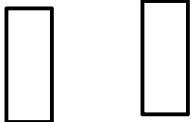
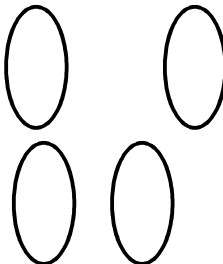

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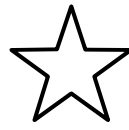
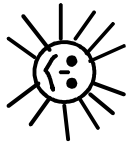
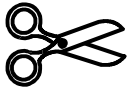
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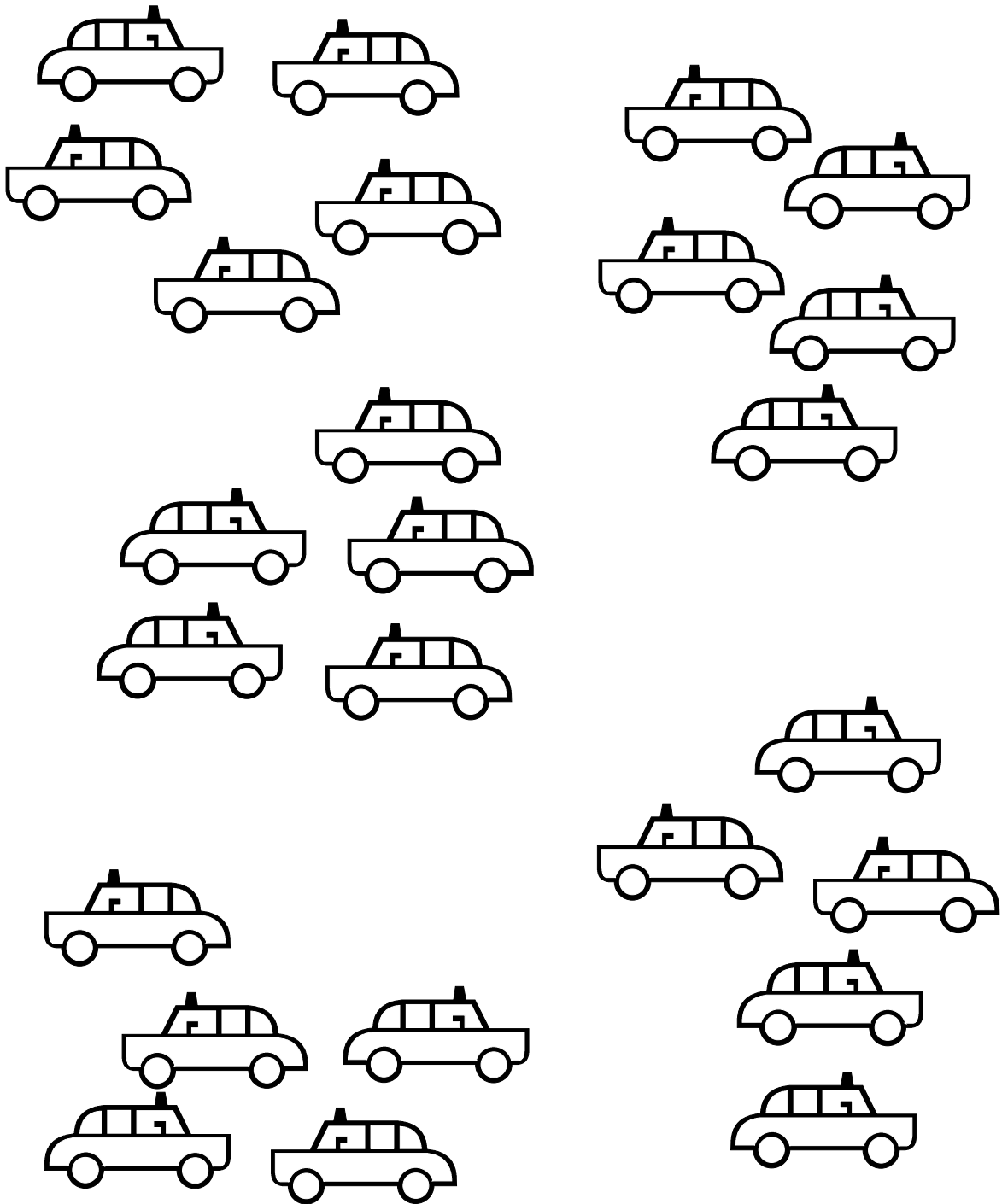
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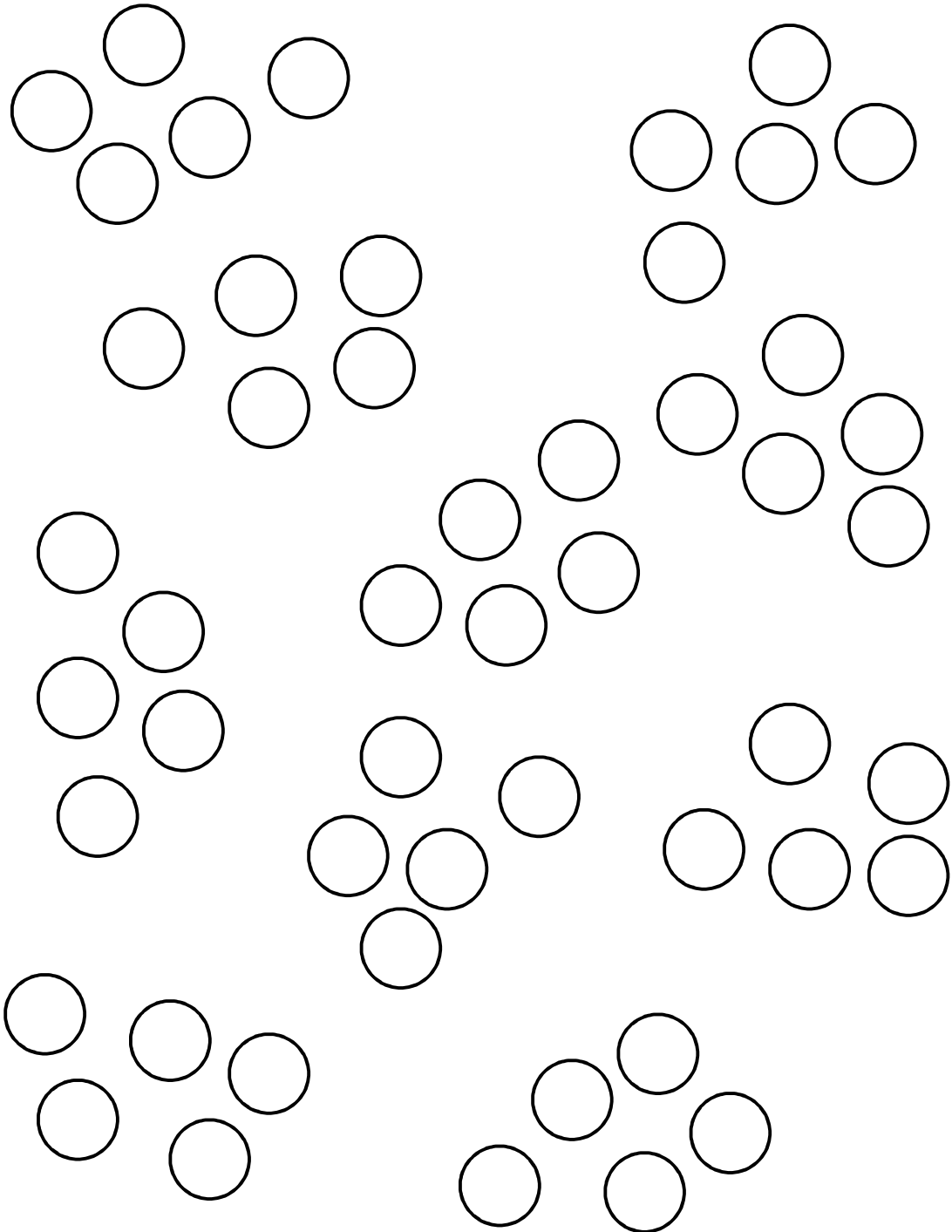
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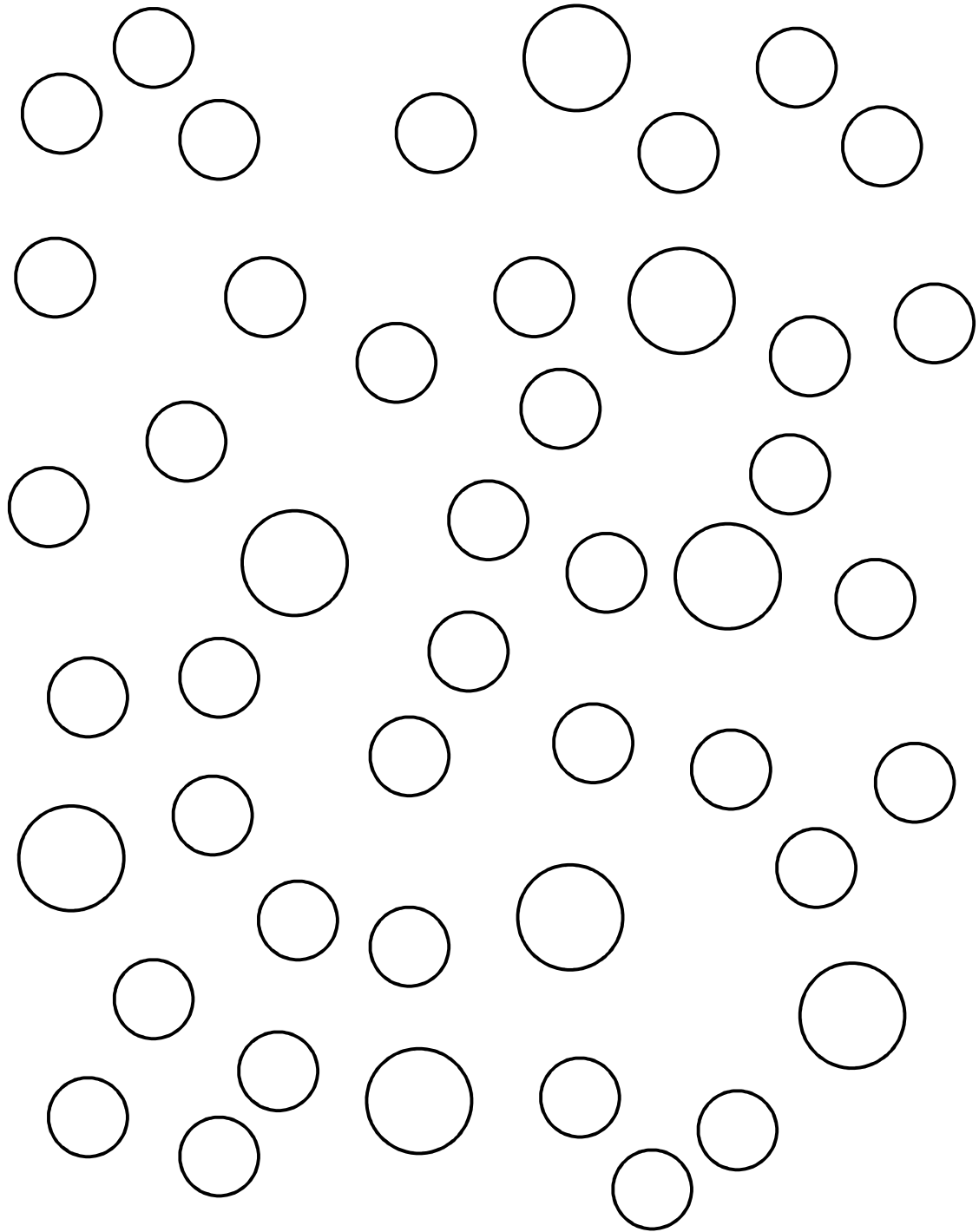
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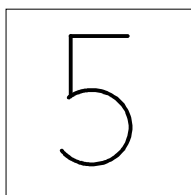
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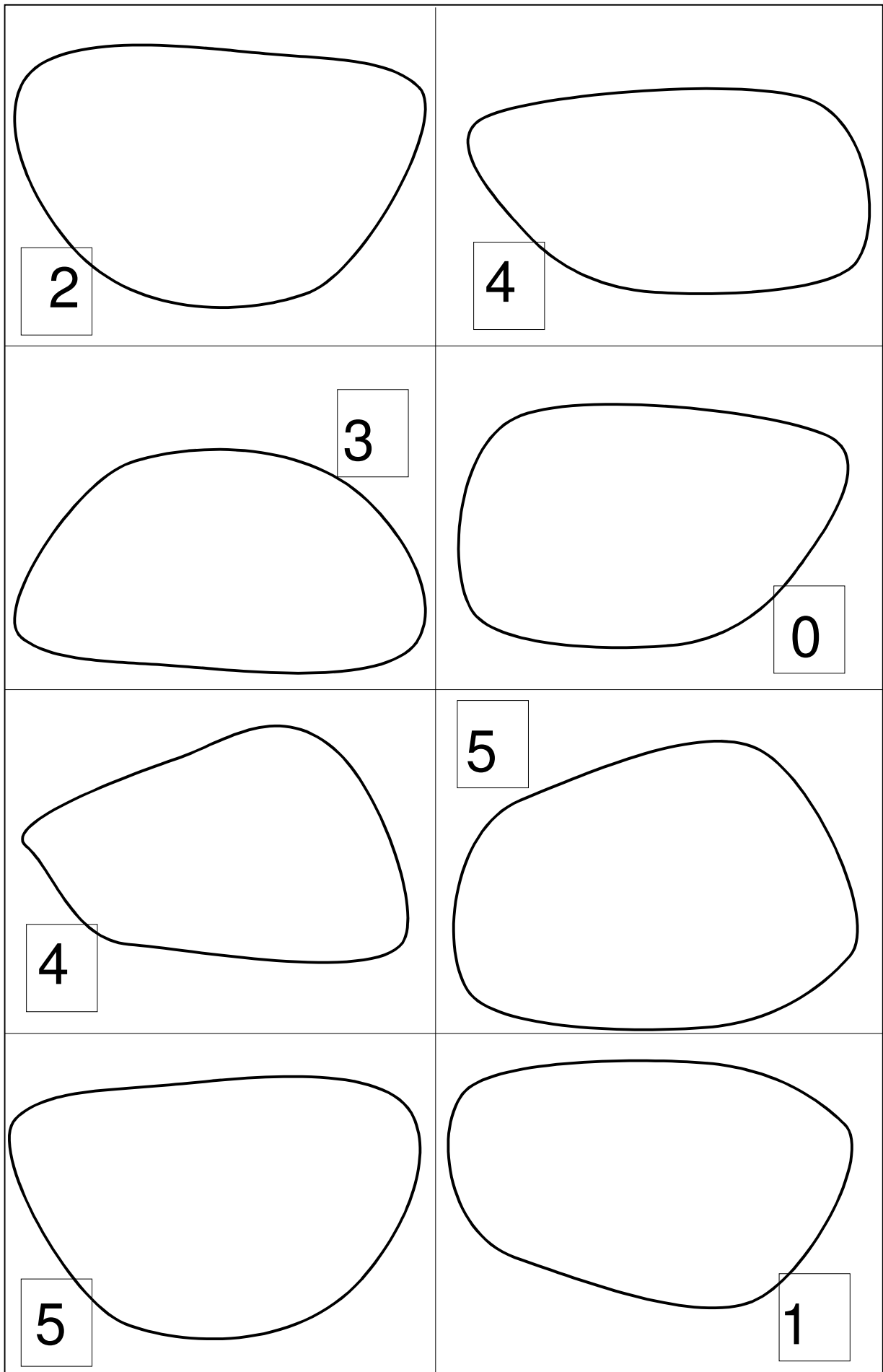
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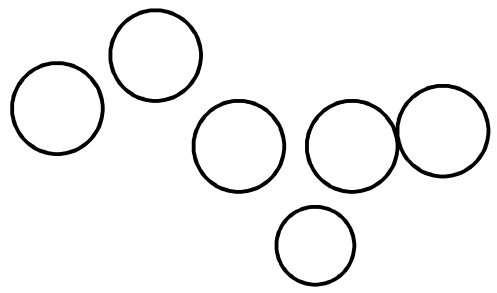
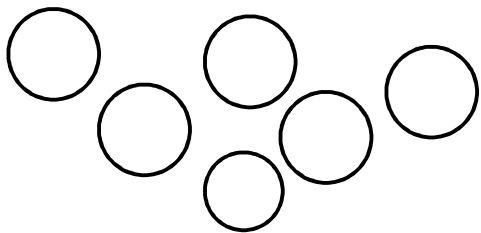
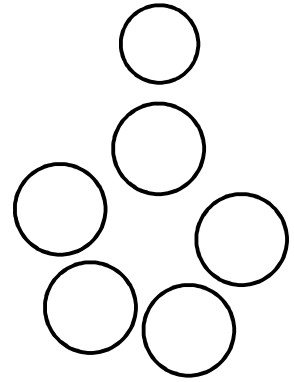
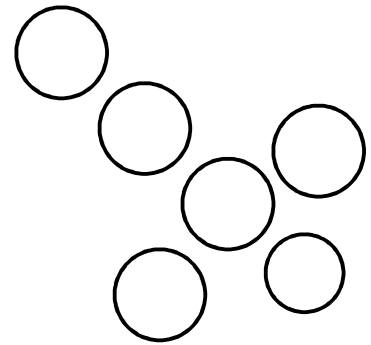
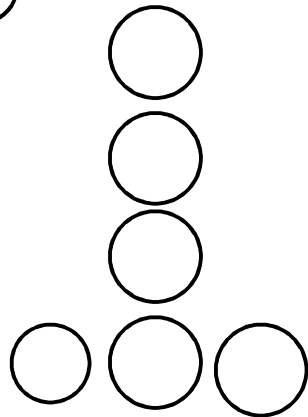
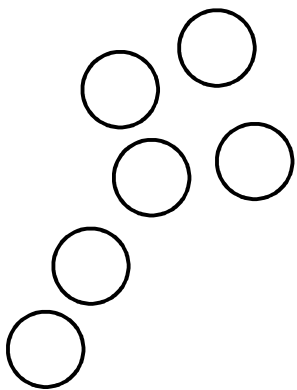
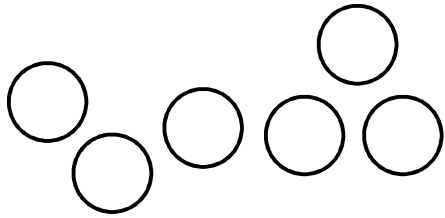
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βa ⁰	1a ¹	2a ²	3a ³	4a ⁴	5a ⁵
"a ⁰	6a ¹	7a ²	8a ³	9a ⁴	0a ⁵

1a	0a	6a	4a	8a
3a	2a	βa	9a	5a
"a	7a	3a	2a	βa
6a	4a	8a	3a	βa
βa	9a	5a	"a	3a
7a	3a	9a	βa	9a
4a	8a	βa	3a	2a
3a	2a	7a	8a	3a
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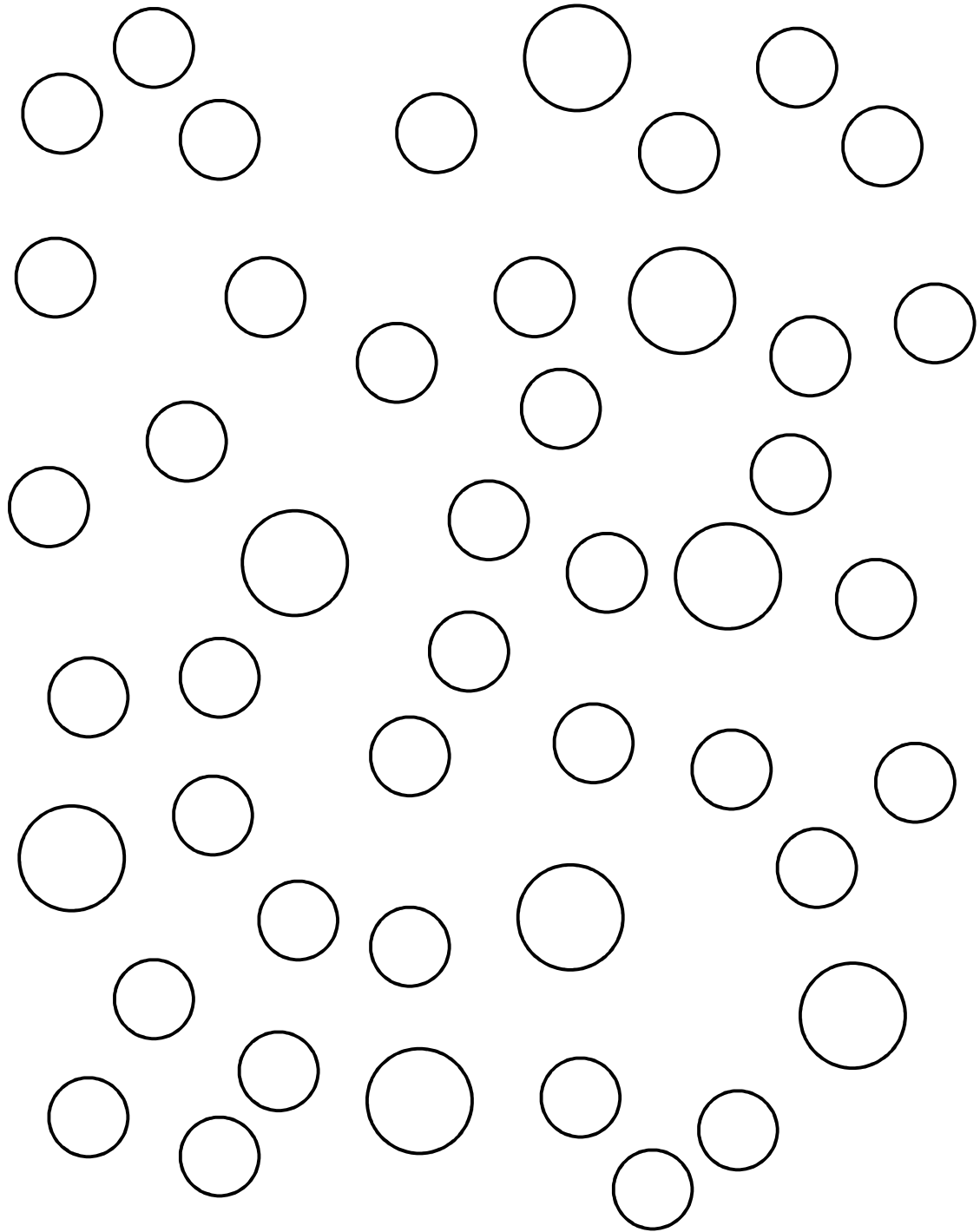
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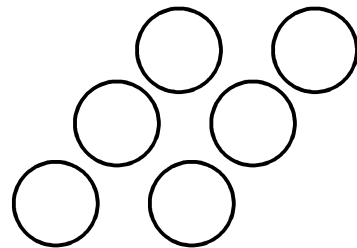
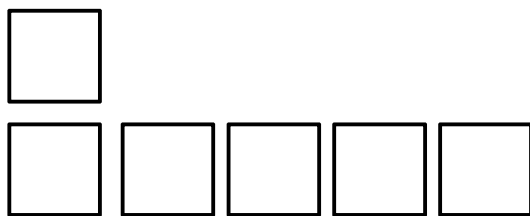
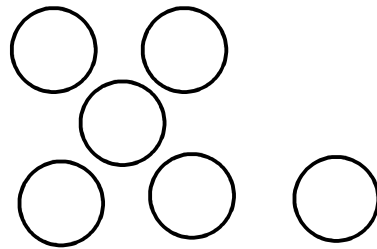
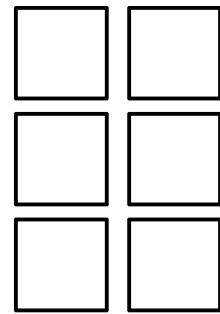
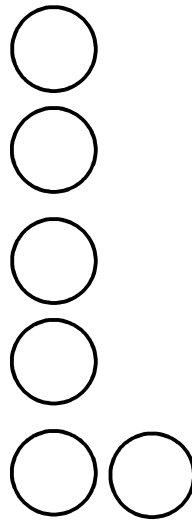
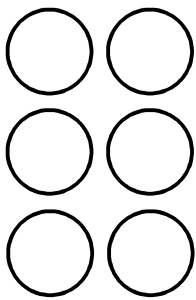
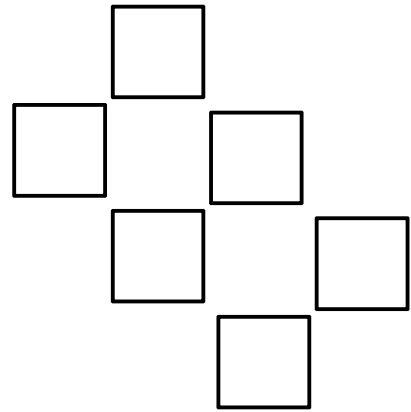
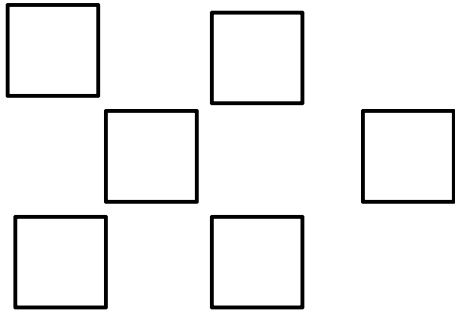
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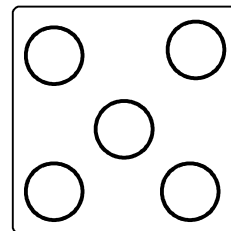
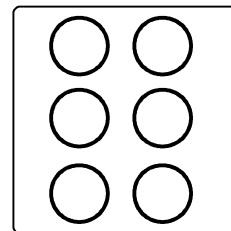
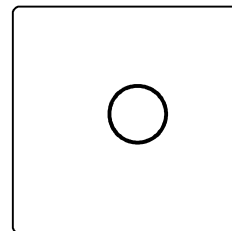
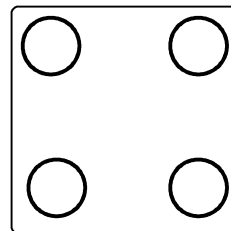
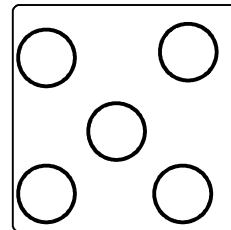
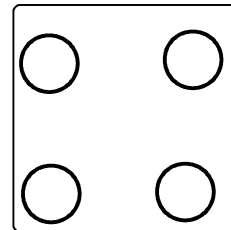
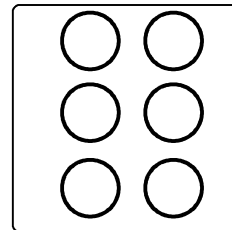
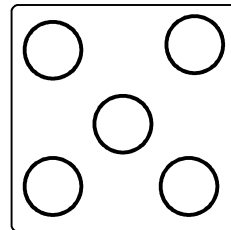
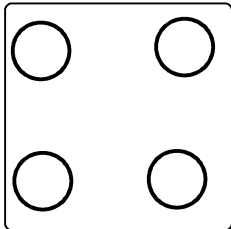
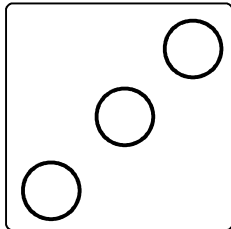
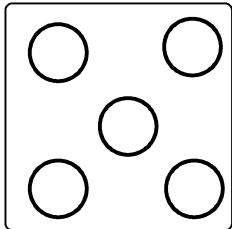
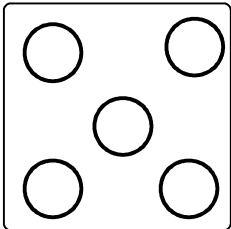
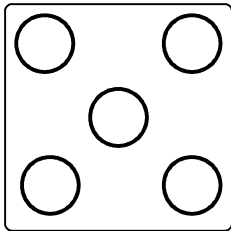
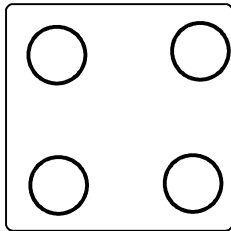
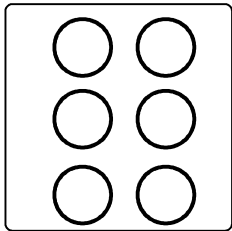
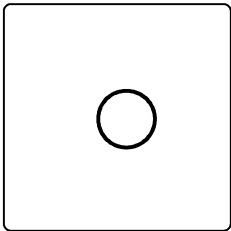
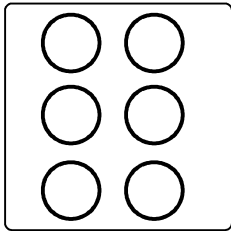
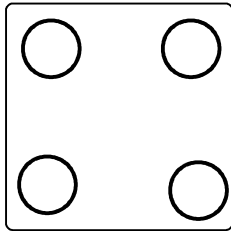
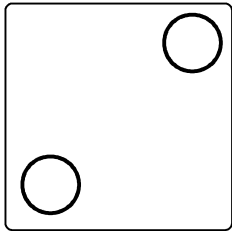
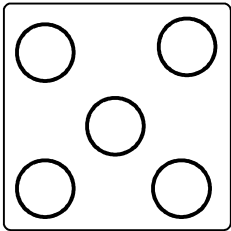
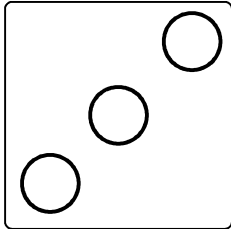
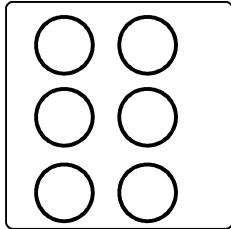
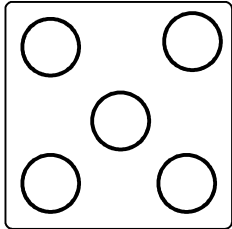
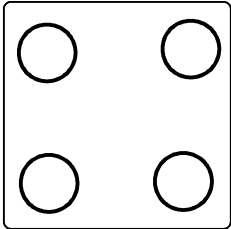


6

4 ROT

5 BLAU

6 GRÜN



ea ³ ra ⁴ ta ⁵ za ⁶

ta ra za ra ea

za ea ra ea ta

ea ta za ra ta

za ra ta ea ra

ta za ta ra ea

za ra ea ta za

ra ea ta ra ta

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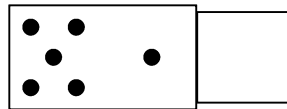
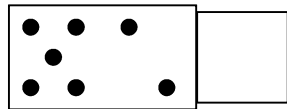
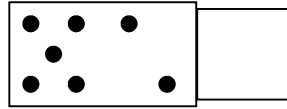
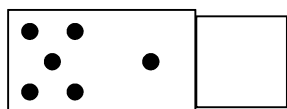
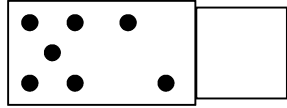
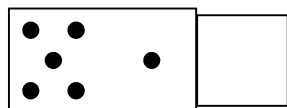
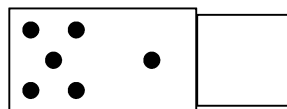
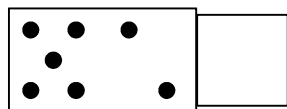
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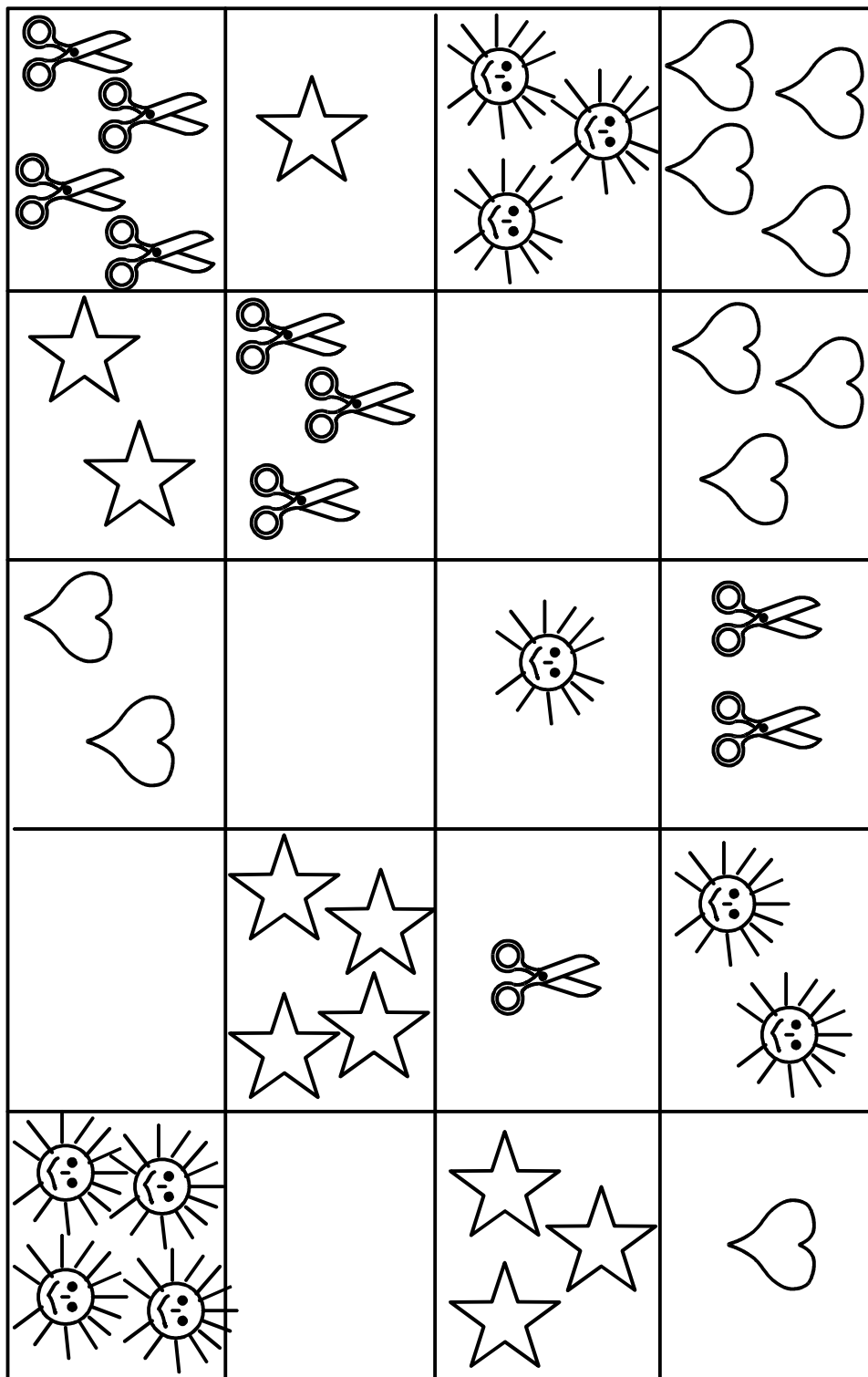
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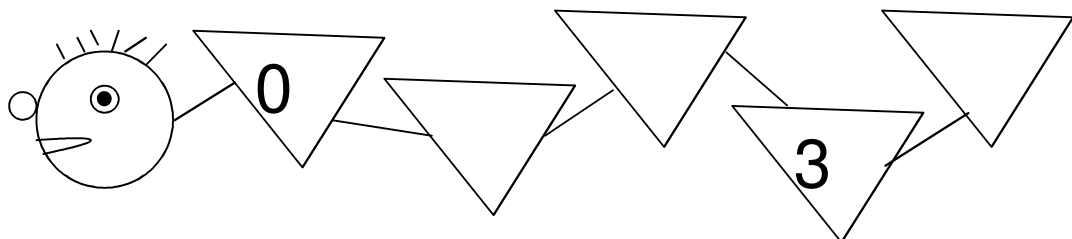
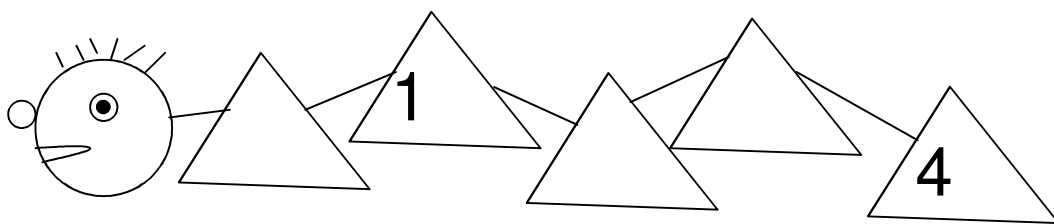
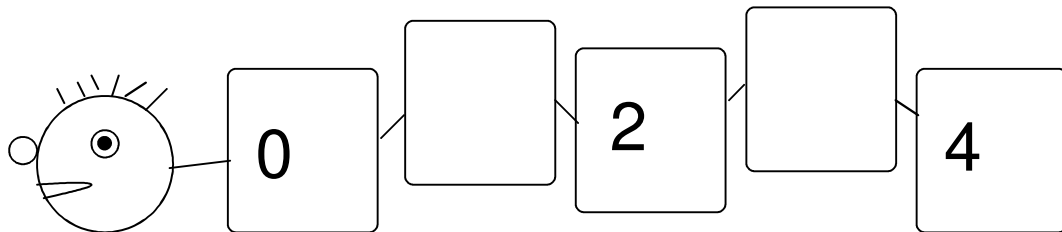
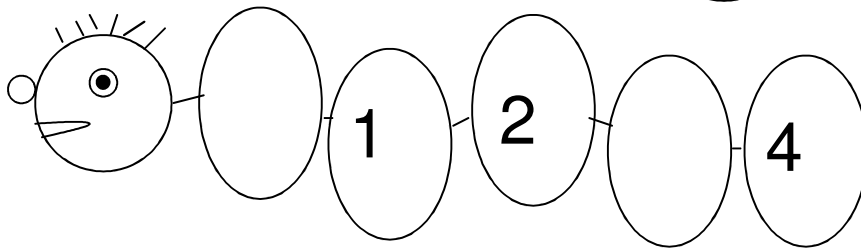
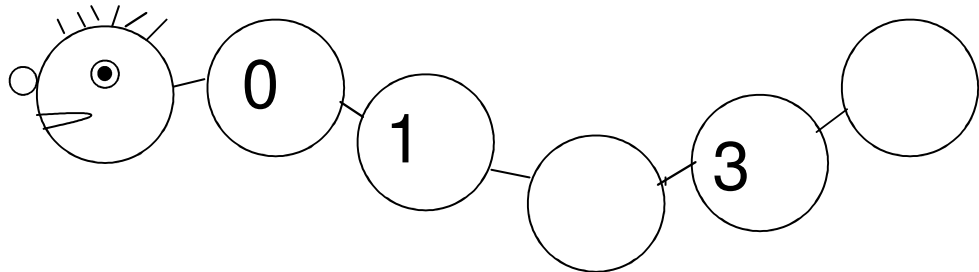
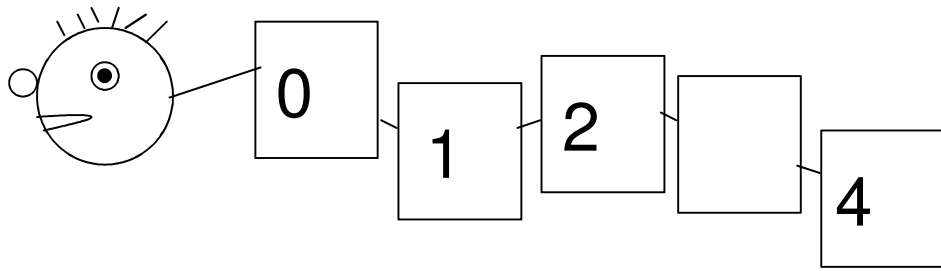
57a

Ausschneidebogen zu Abl. 27



The image contains several number sequence puzzles:

- Row 1:** A sequence of four rectangles. The first contains '0', the second '1', the third is empty, and the fourth '3'.
- Row 2:** A sequence of four circles. The first contains '0', the second is empty, the third '2', and the fourth '3'.
- Row 3:** A sequence of four tulip shapes. The first is empty, the second '1', the third '2', and the fourth '3'.
- Row 4:** A sequence of four rounded rectangles. The first contains '0', the second '1', the third '2', and the fourth is empty.
- Row 5:** A sequence of four hearts. The first contains '0', the second '1', the third is empty, and the fourth '3'.
- Row 6:** A sequence of four circles. The first is empty, the second is empty, the third '2', and the fourth is empty.



1	2	3	4	5	6
---	---	---	---	---	---

1			4	5	
	2	3			6
1			4	5	
			4		6
	2			5	

0

1

2

3

4

5

2

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1

2

0

3

4

1

2

4

3

0

1

2

0

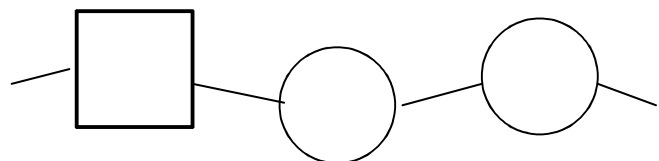
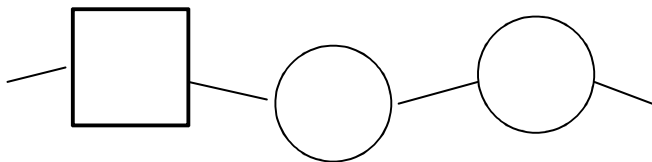
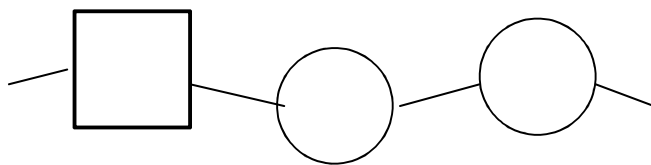
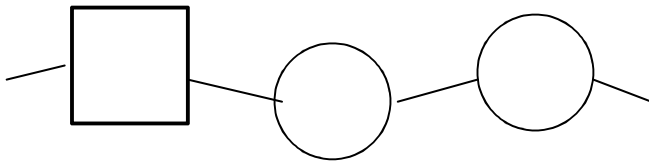
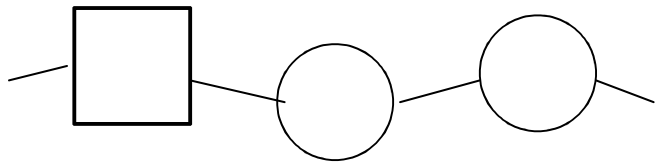
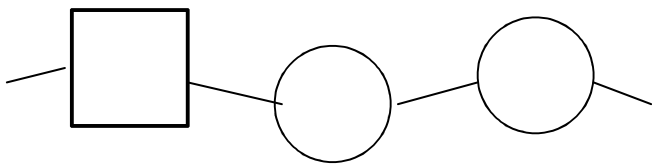
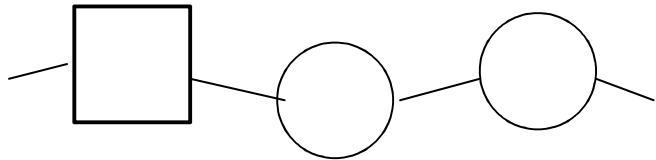
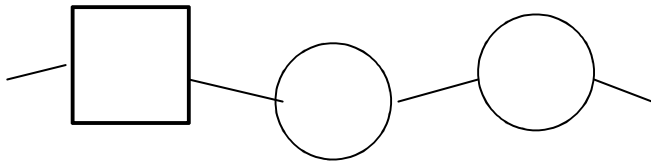
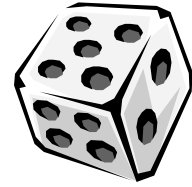
3

2

4

3

0



?

2 4

1 3

0 2

4 6

2 4

3 5

2 4

0 2

3 5

1 3

?

3 5

2 4

3 5

1 3

0 2

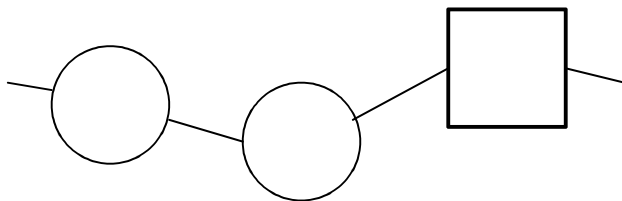
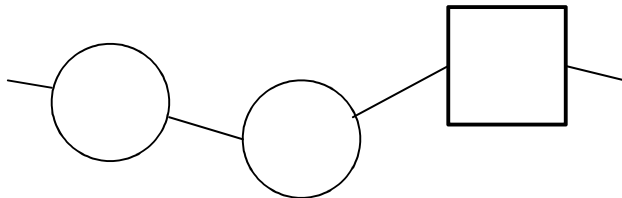
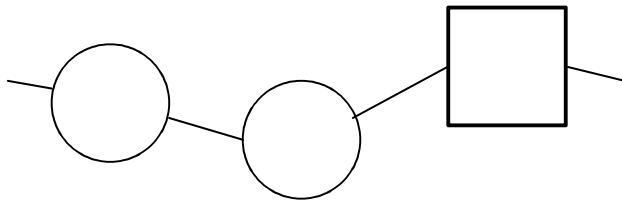
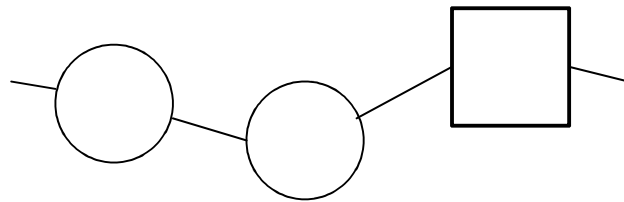
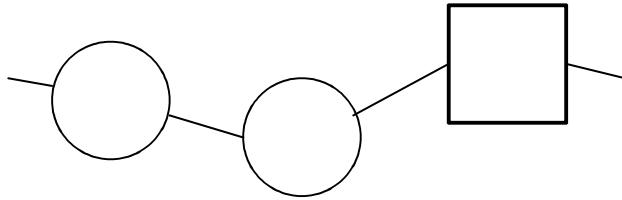
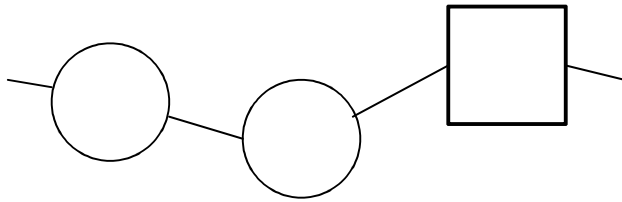
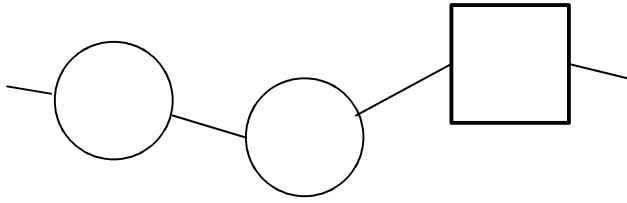
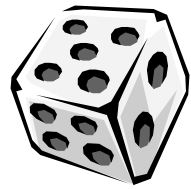
4 6

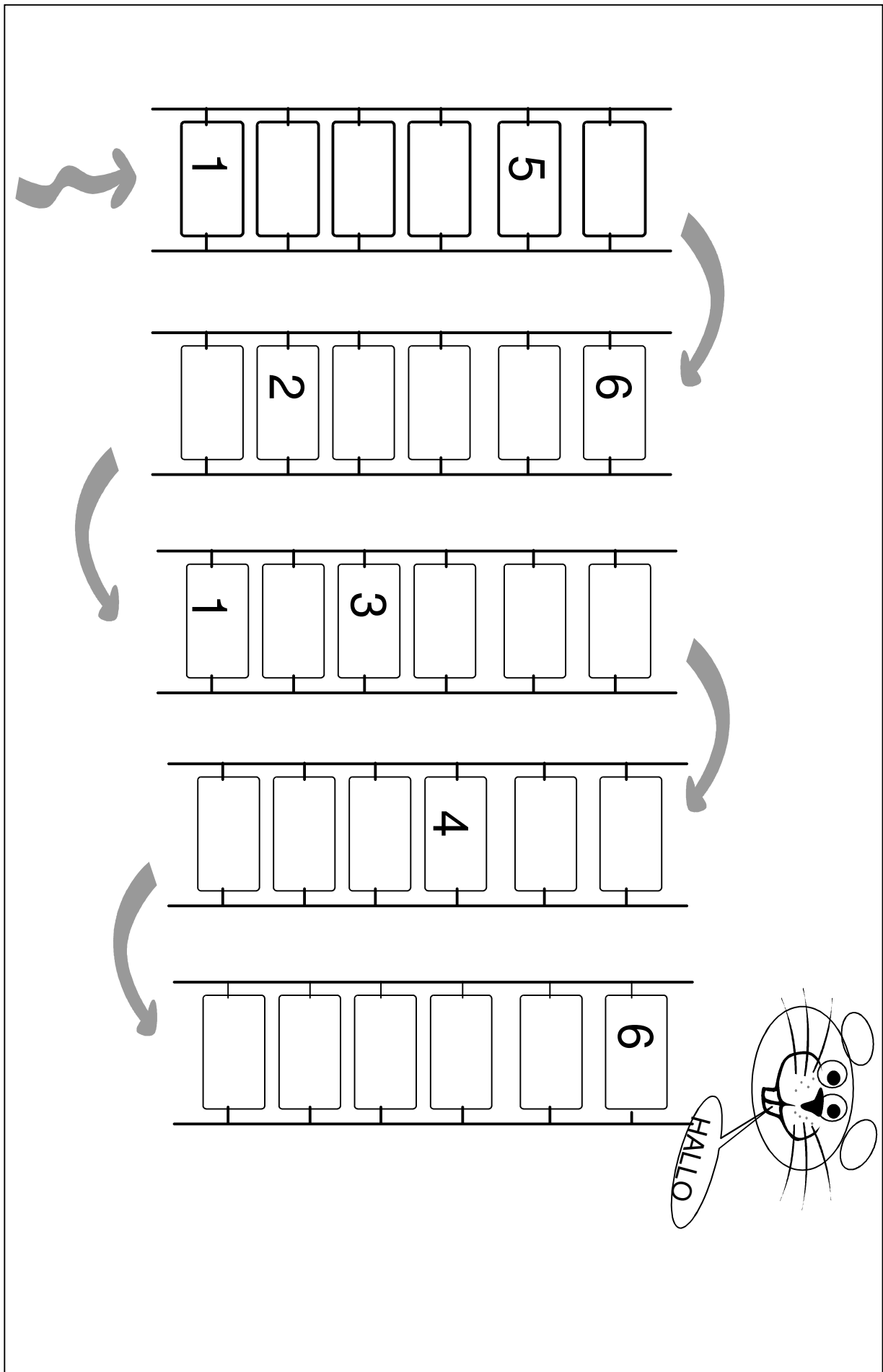
3 5

4 6

2 4

3 5





3

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2

3

4

5

5

1

3

2

1

4

4

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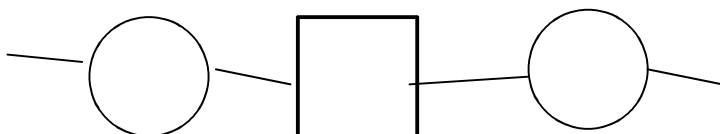
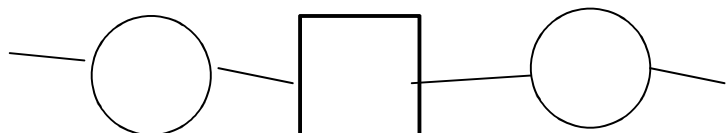
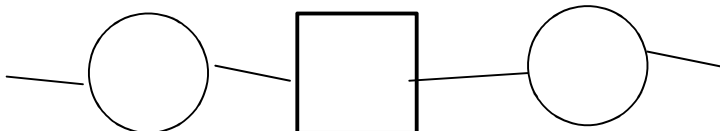
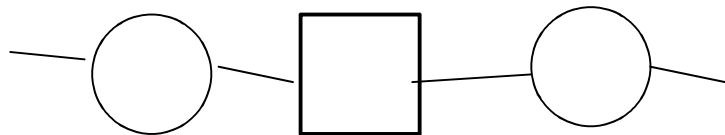
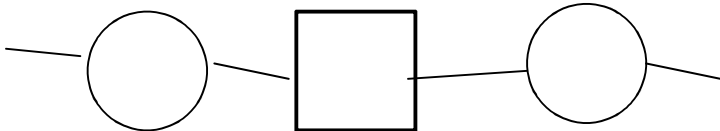
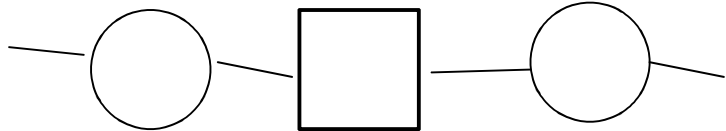
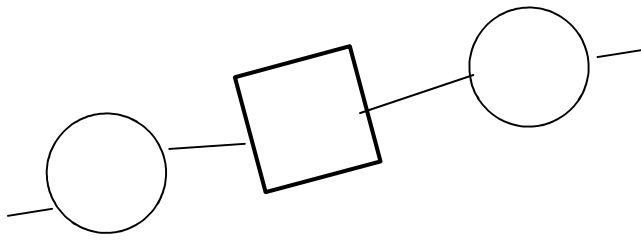
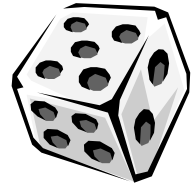
1

3

2

2

4



2		
6		
1		
5		
4		
3		
0		

Schreibe die Nachfolger!

3		5
2		4
4		6
6		8
1		3
5		7
0		2

Schreibe die Zahl in der Mitte!!

	3	
	5	
	2	
	1	
	7	
	6	
	4	

Schreibe Vorgänger und Nachfolger!

		6
		2
		5
		3
		8
		4
		7

Schreibe die Vorgänger!

Die Zwillinge Manne und Willi ...

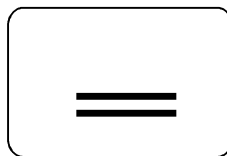


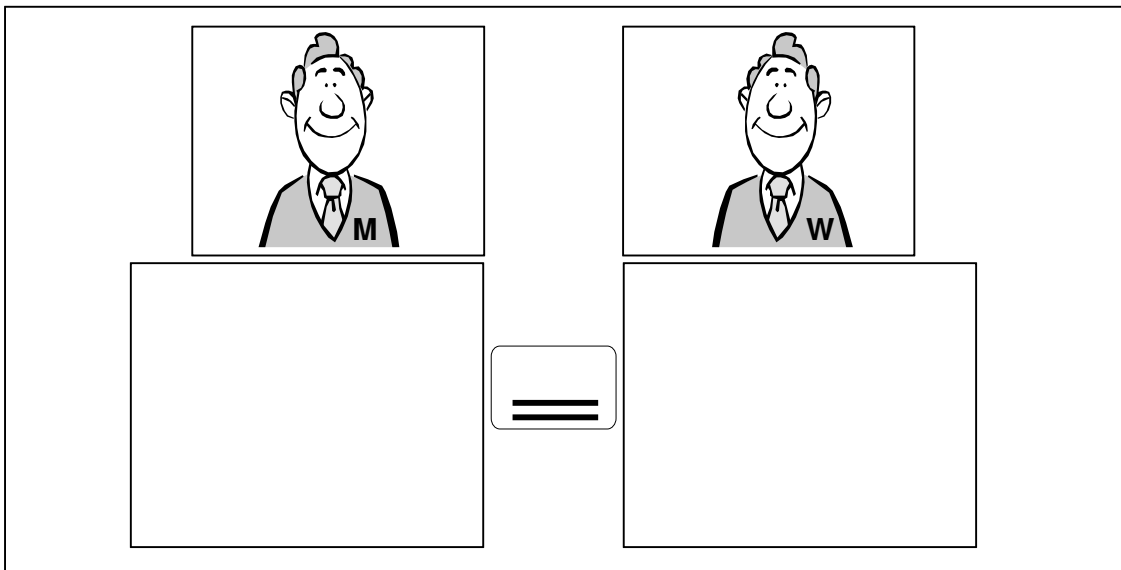
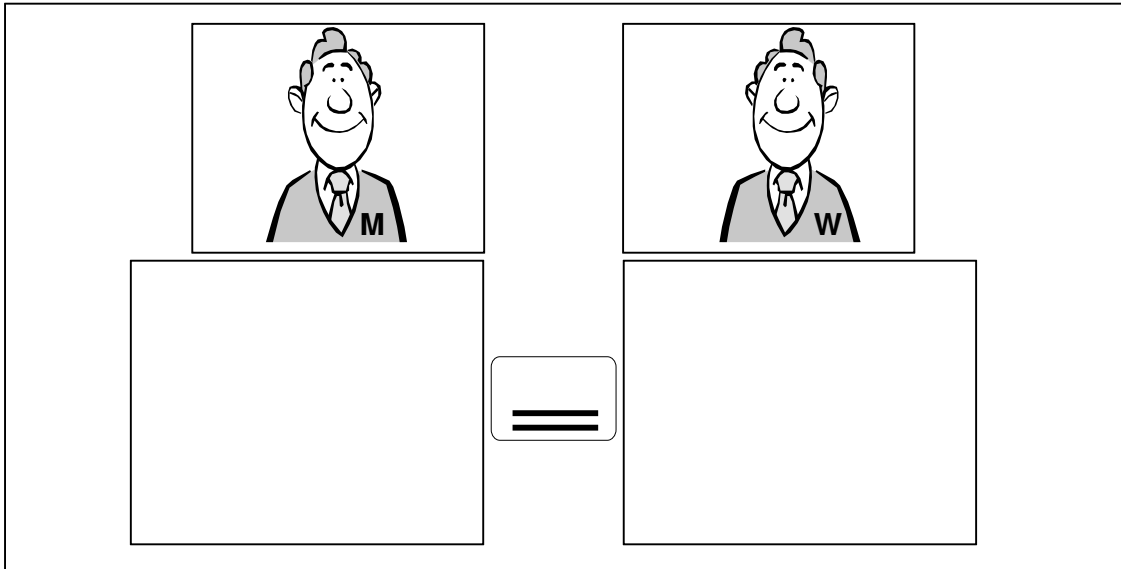
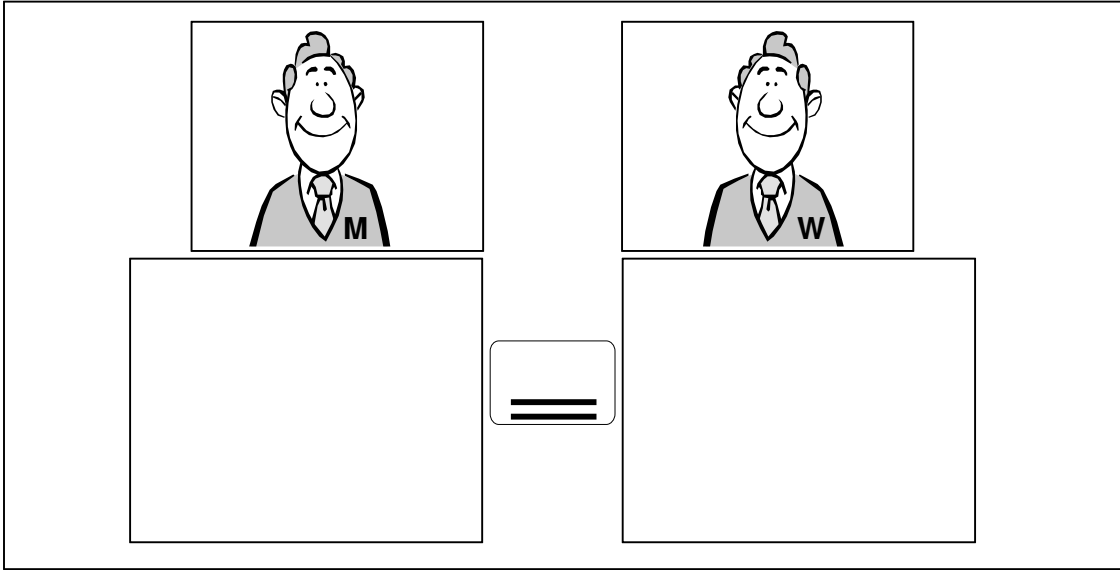
Manne

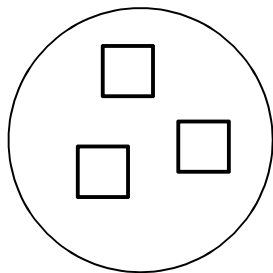


Willi

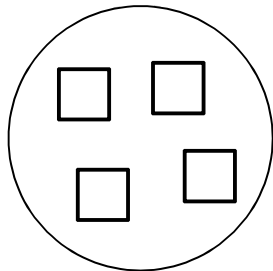
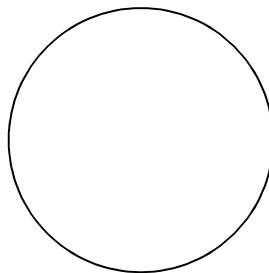
... und ihr Geheimzeichen



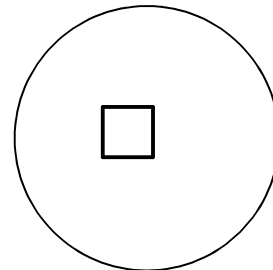
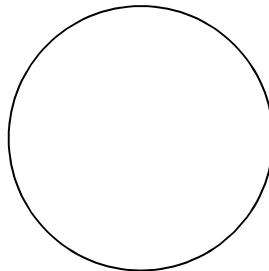




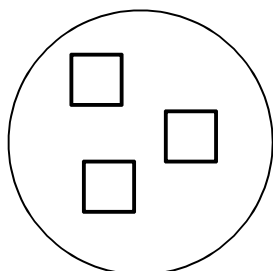
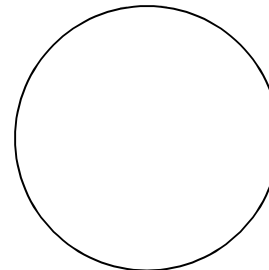
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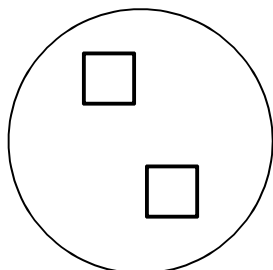
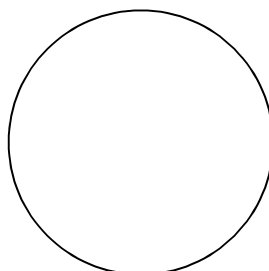
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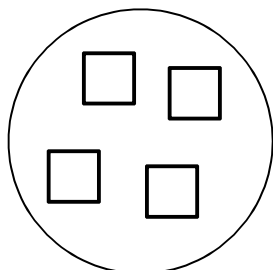
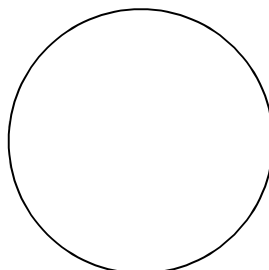
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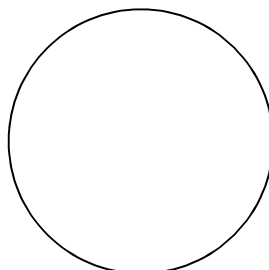
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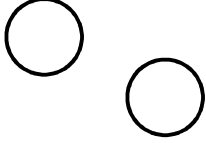





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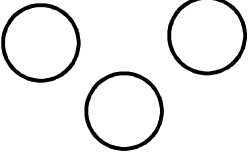




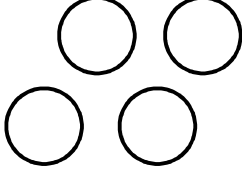
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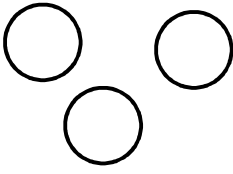
	
	
$2 = \square$	

	
	
$1 = \square$	

	
	
$3 = \square$	

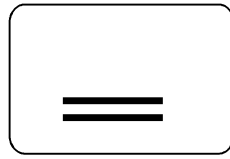
	
	
$4 = \square$	

	
$0 = \square$	

	
	
$3 = \square$	

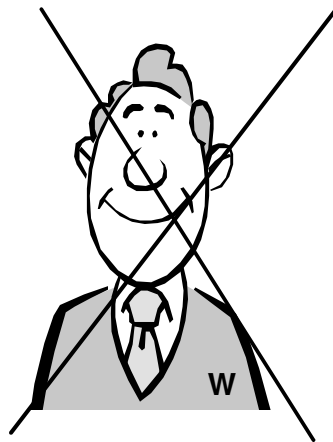
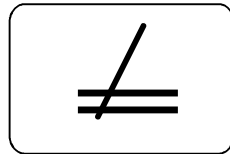
Willi soll genauso viel wie Manne haben!
Schreibe bei Willi die richtige Zahl!

a)

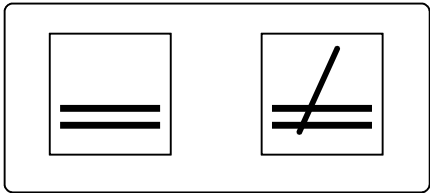


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b)

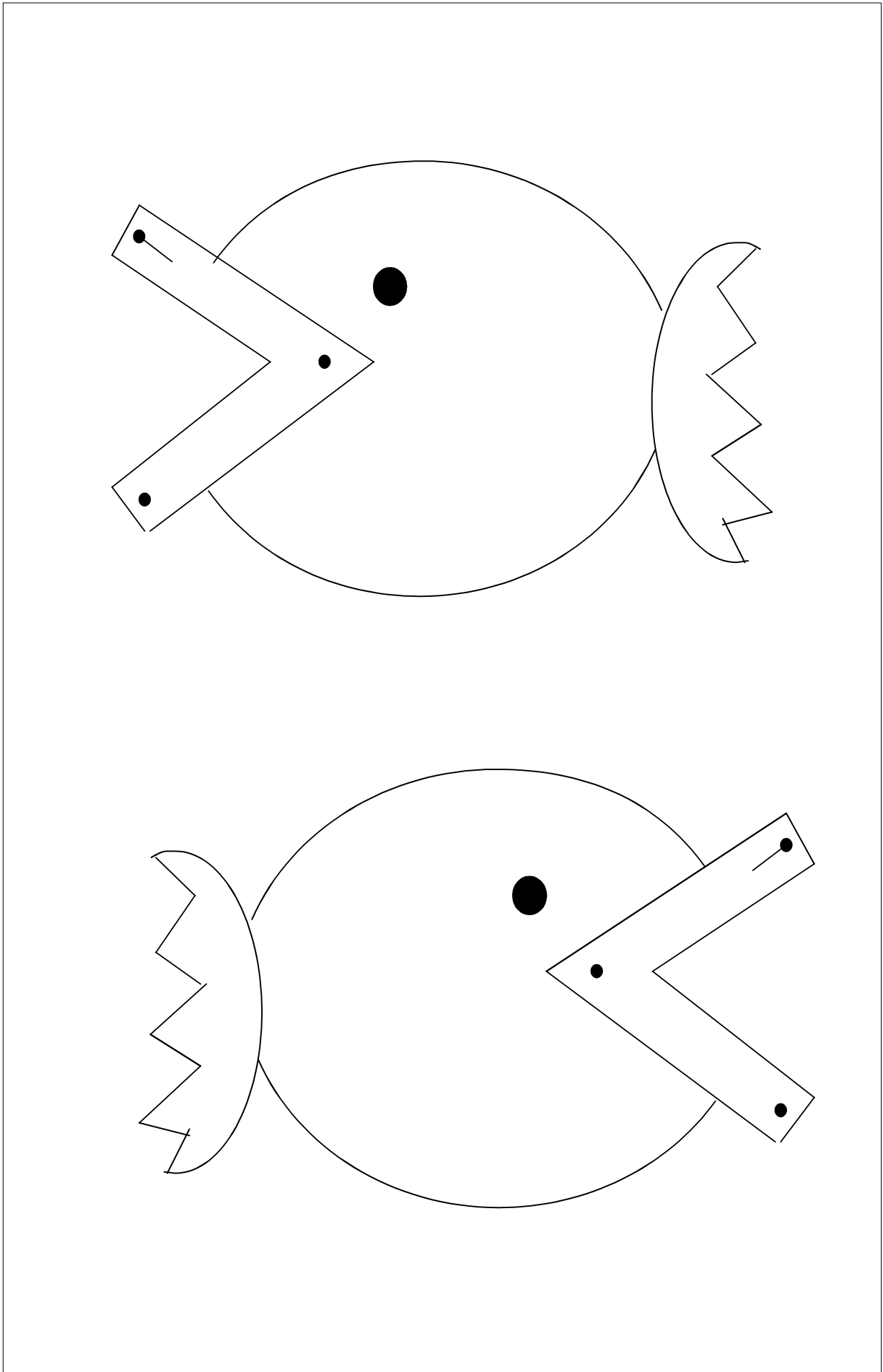


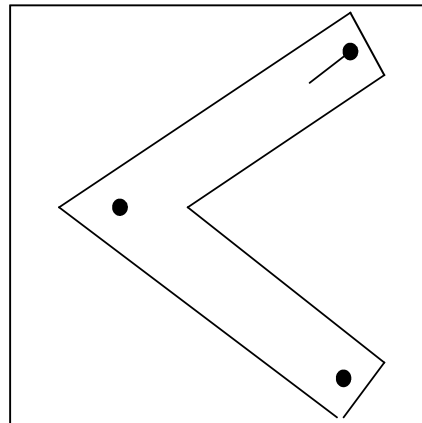
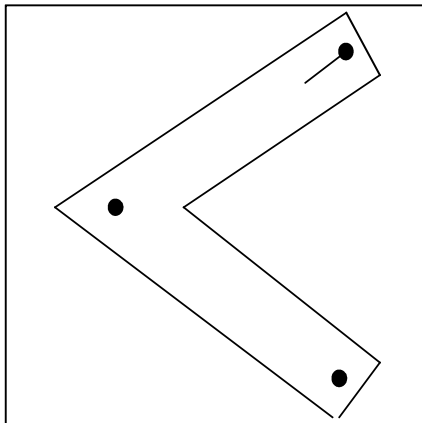
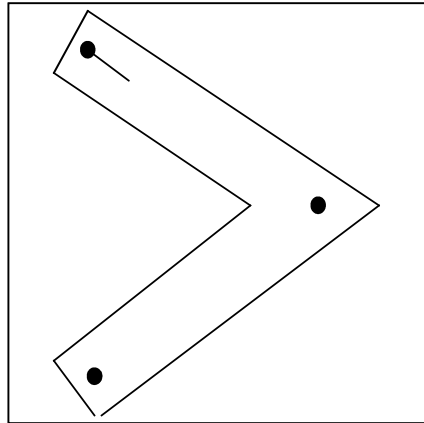
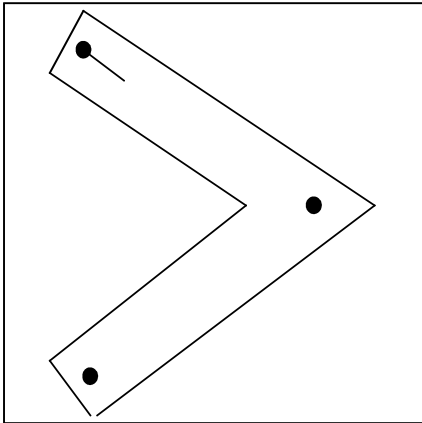
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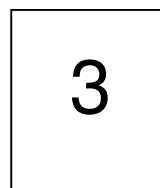
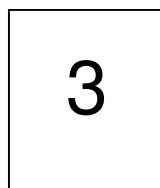
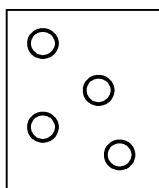
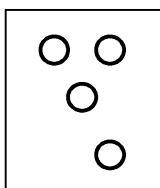
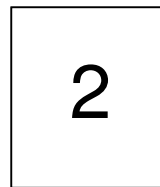
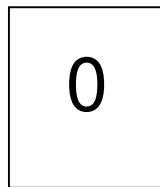
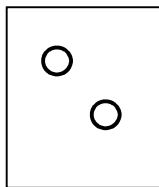
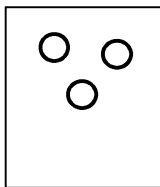
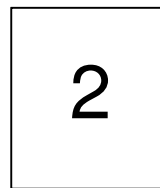
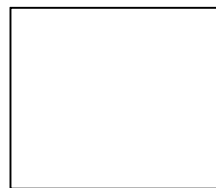
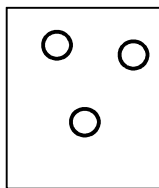
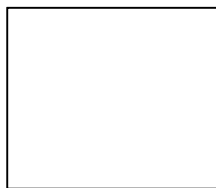
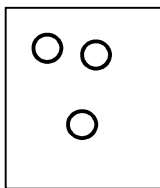
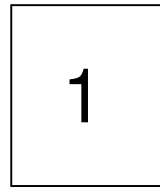
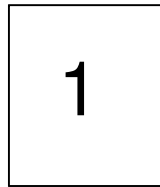
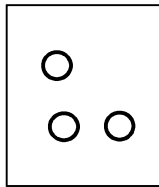
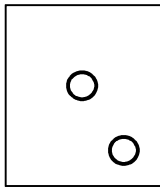
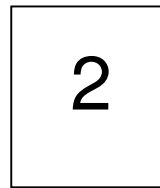
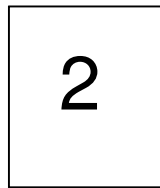
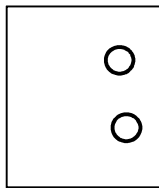
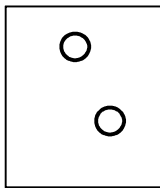
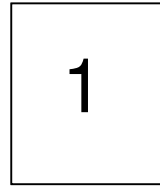
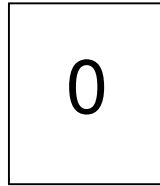
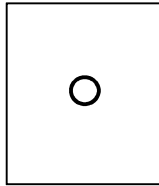
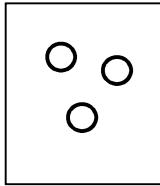
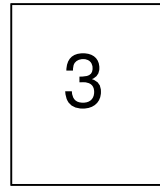
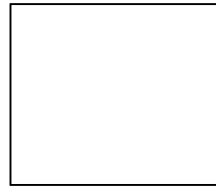
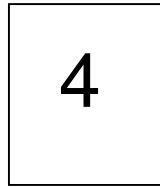
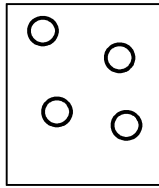
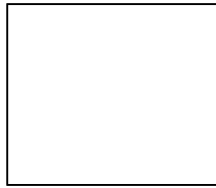
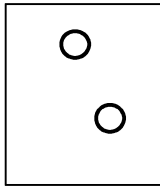
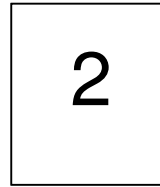
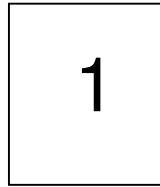
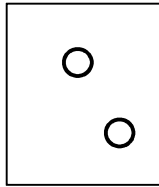
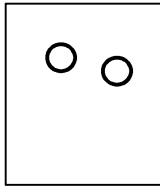
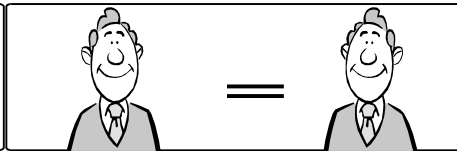
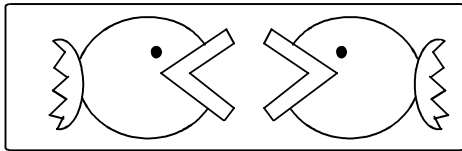


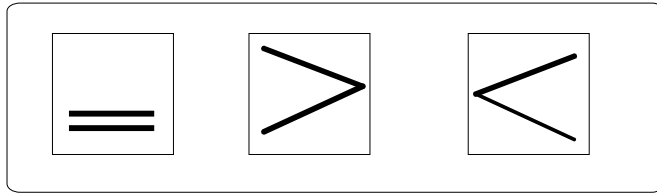
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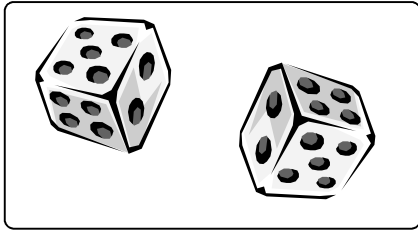
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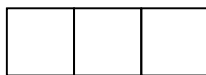
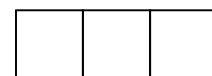
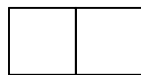
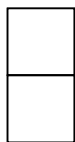
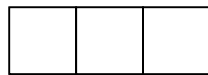
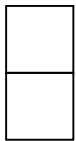
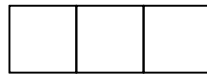
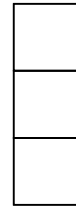
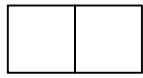
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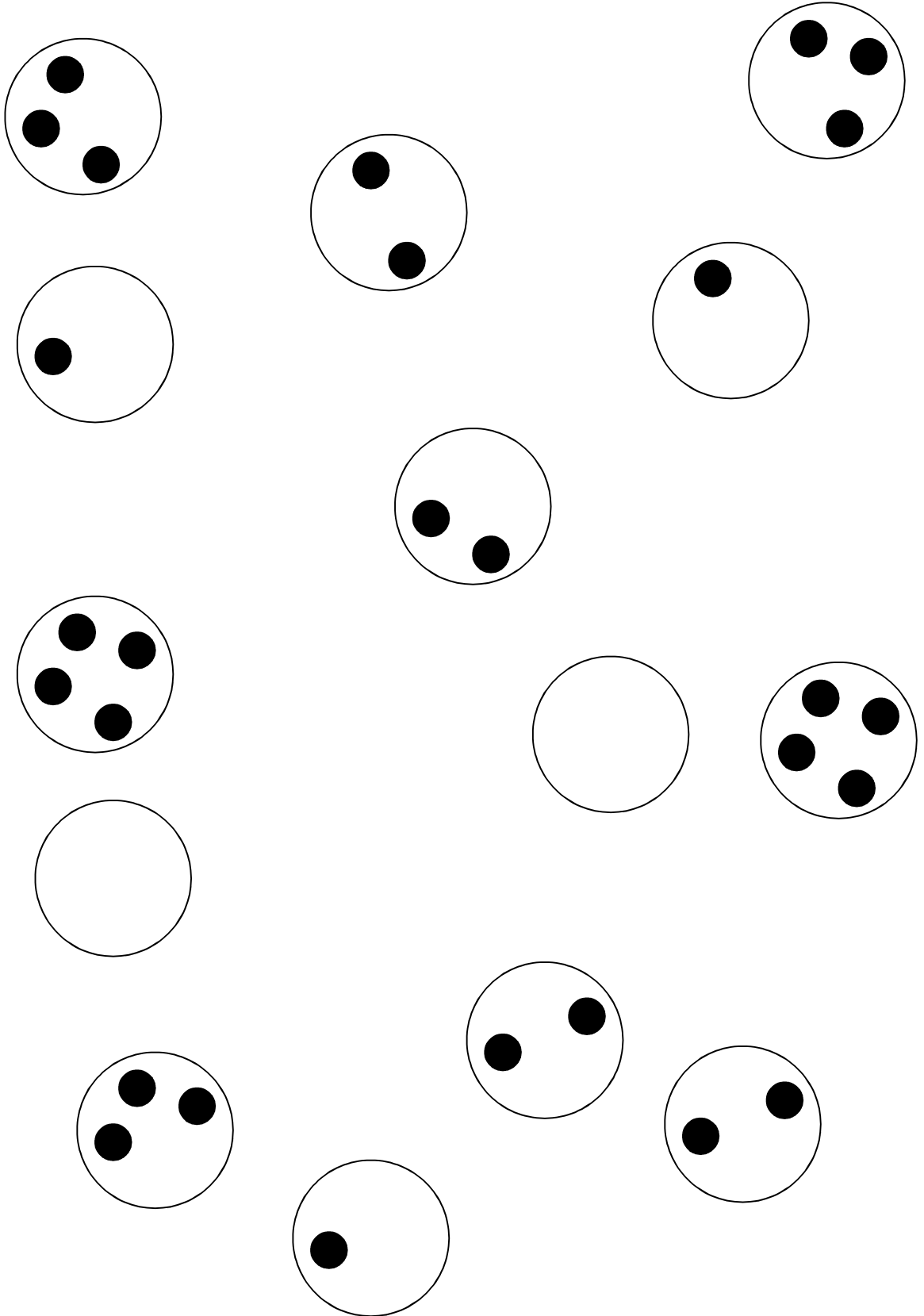
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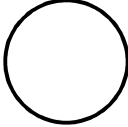
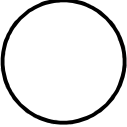
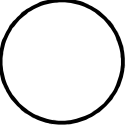
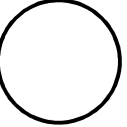
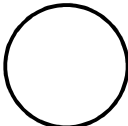
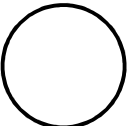
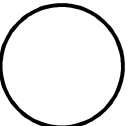
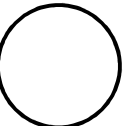
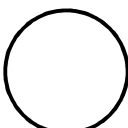
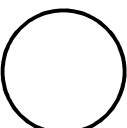
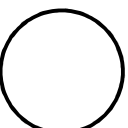
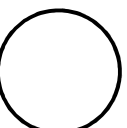
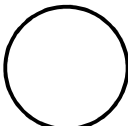
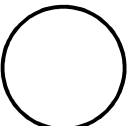
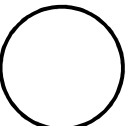
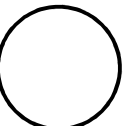
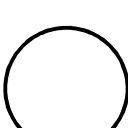
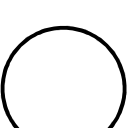
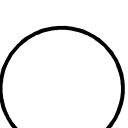
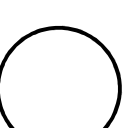
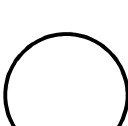
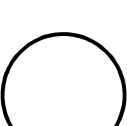
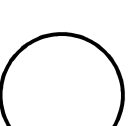
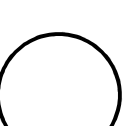
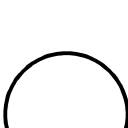
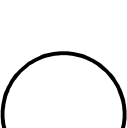
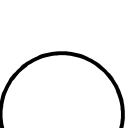
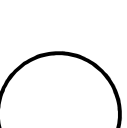
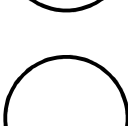
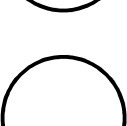
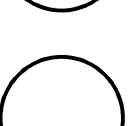
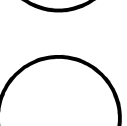
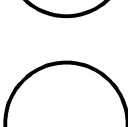
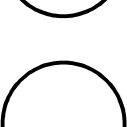
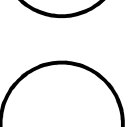
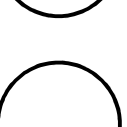
gehören zusammen!



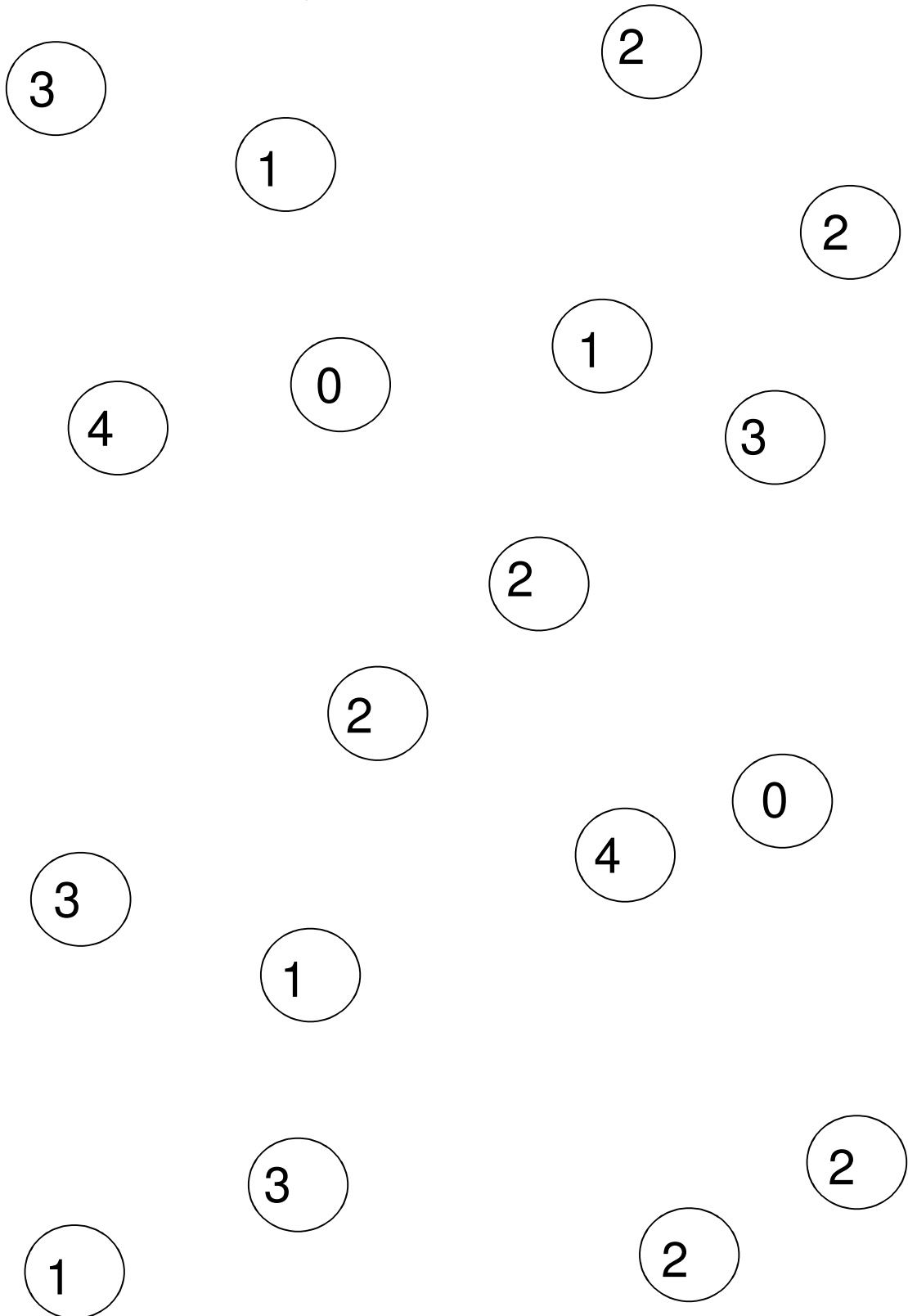
4

gelb

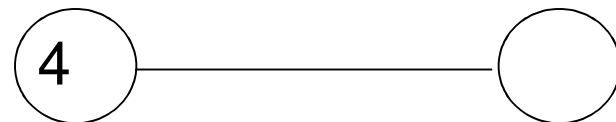
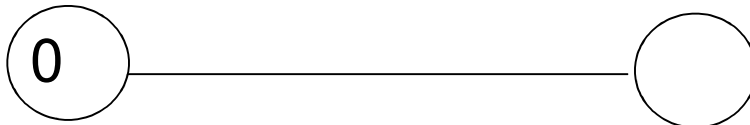
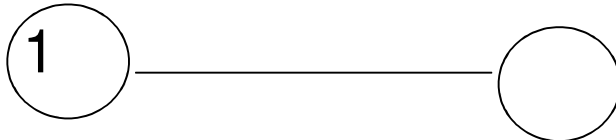
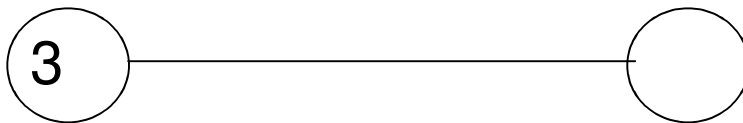
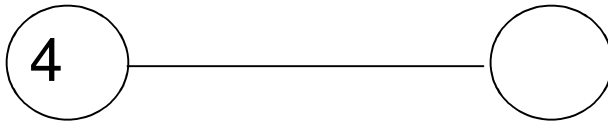
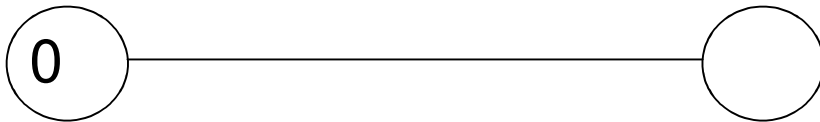
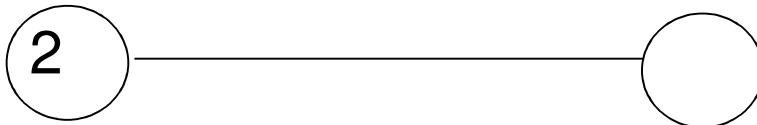
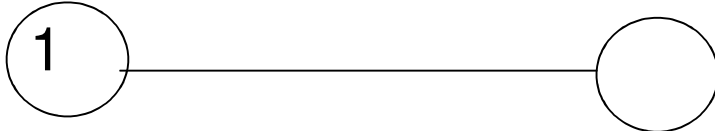
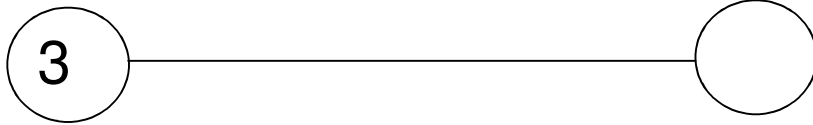
blau

0					4
1					3
2					2
3					1
4					0
3					1
2					2
1					3
0					4


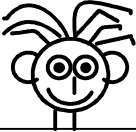

IMMER **4** gehören zusammen!


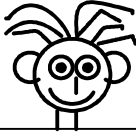






4







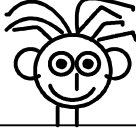
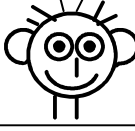
Hugo und Egon wollen teilen:

4 		
		
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<input type="text"/>	+	<input type="text"/>

4 		
		
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<input type="text"/>	+	<input type="text"/>

4 		
		
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<input type="text"/>	+	<input type="text"/>

4 		
		
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<input type="text"/>	+	<input type="text"/>

4 		
		
<input type="text"/>	<input type="text"/>	
<input type="text"/>	+	<input type="text"/>


$$4 = \square + \square$$

$$4 = \square + \square$$

$$4 = \square + \square$$


$$4 = \square + \square$$

$$4 = \square + \square$$

4 


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+ = 4

4 


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+ = 4

4 


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+ = 4

4 


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+ = 4

4 



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+ = 4

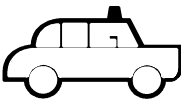
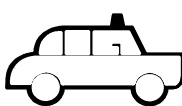
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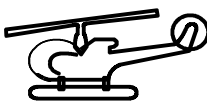
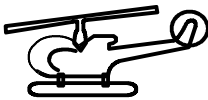
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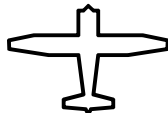
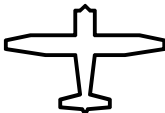
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3  +  = 4



2  +  = 4

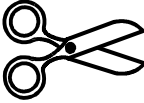
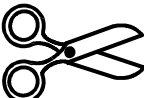
4  +  = 4


1  +  = 4

0  +  = 4

3  +  = 4


2  +  = 4

1  +  = 4

3 


--	--

+ = 3

2 


--	--

+ = 2

1 


--	--

+ = 1

4 


--	--

+ = 4

2 

--	--

+ = 2

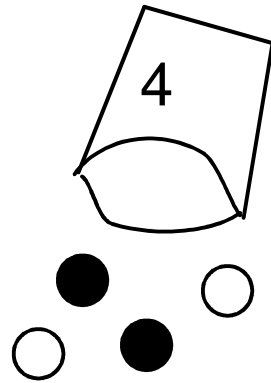
3 

--	--

+ = 3

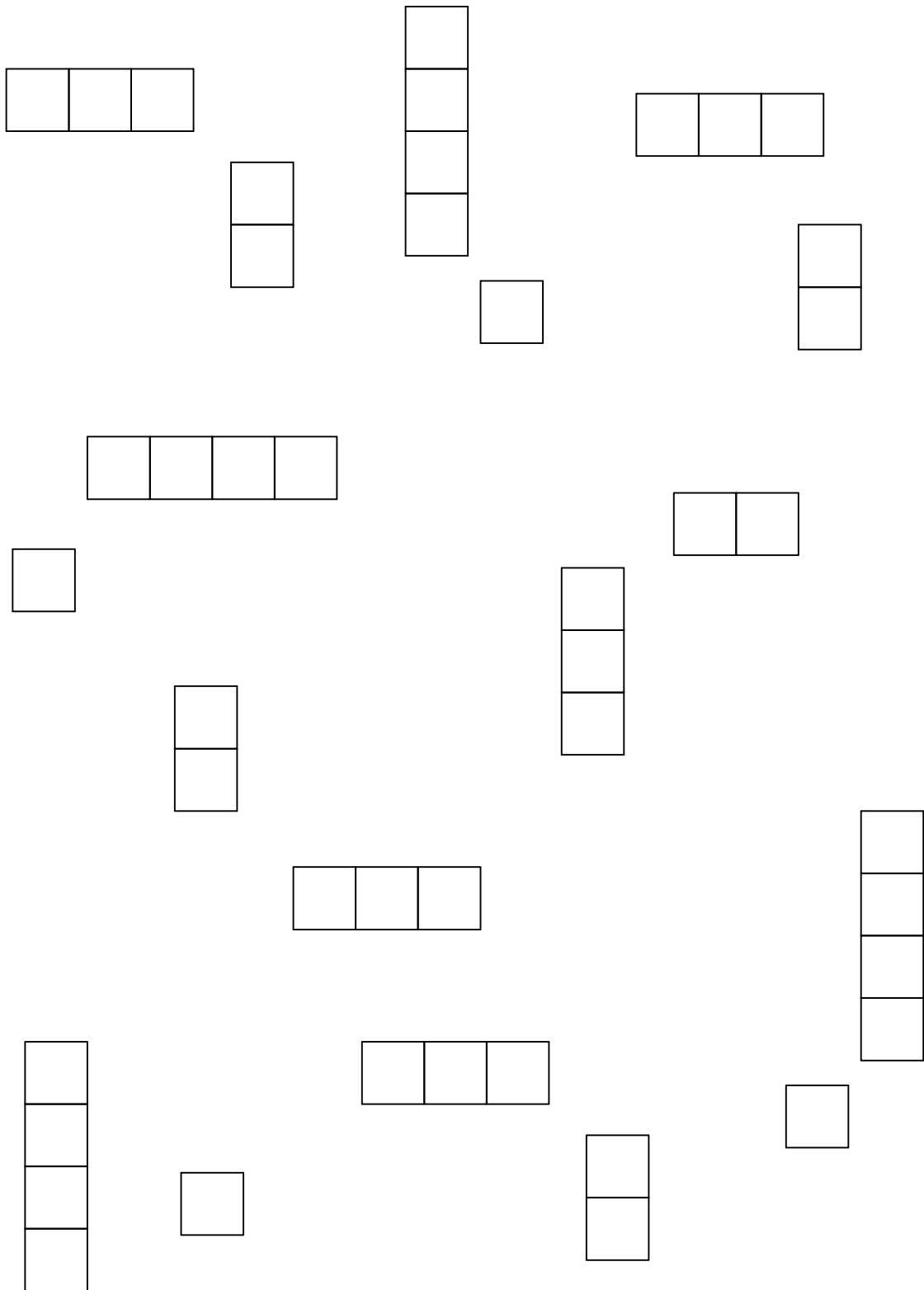
a) Würfle mit zweifarbigen Rechenplättchen und schreibe die Aufgaben in das Kästchen!

$$2 + 2 = 4$$

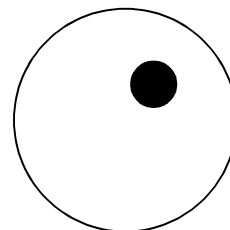
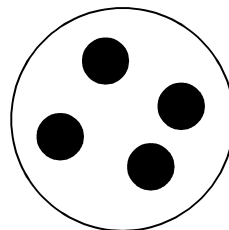
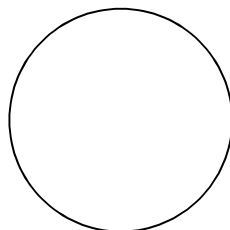
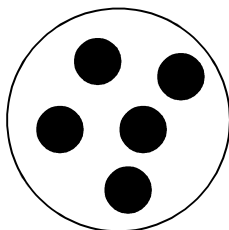
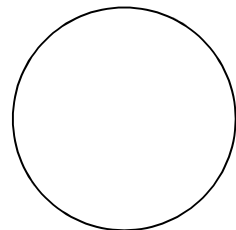
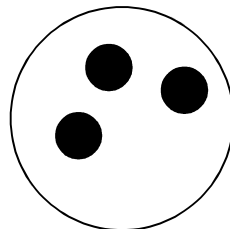
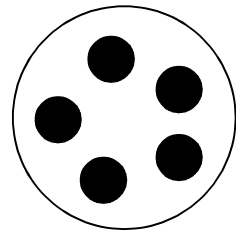
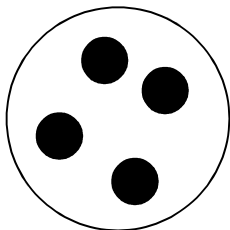
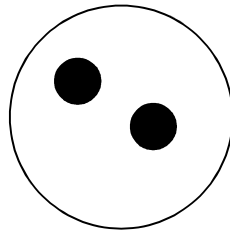
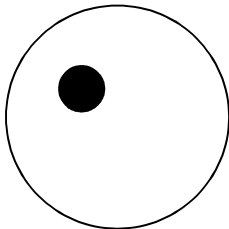
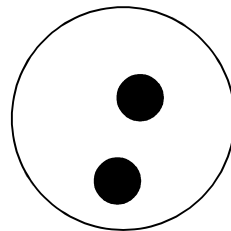
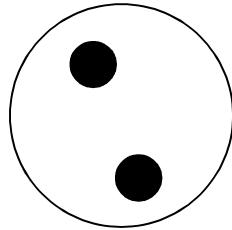
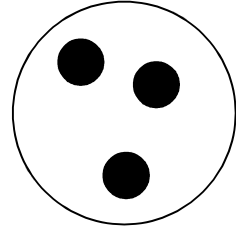
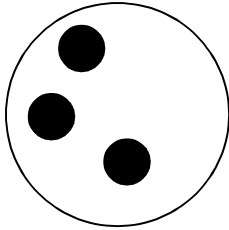


b) Schreibe die verschiedenen Aufgaben, die du gewürfelt hast, hier noch einmal auf! Hast du alle 5 Aufgaben gewürfelt?

IMMER **5** gehören zusammen!



IMMER **5** gehören zusammen!



gelb

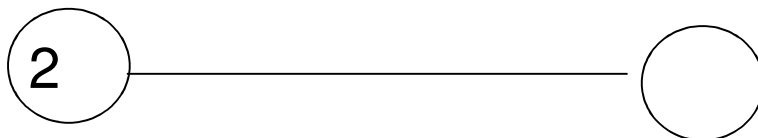
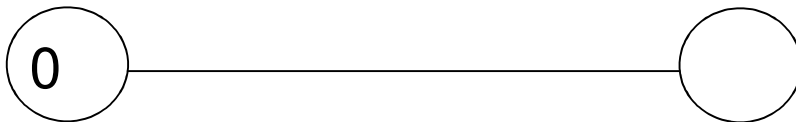
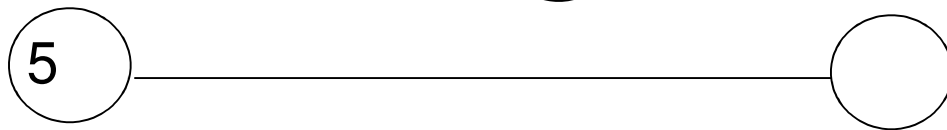
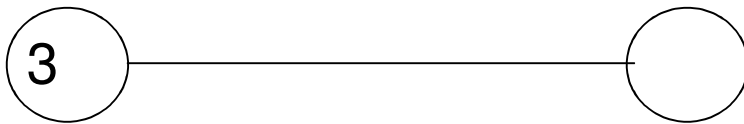
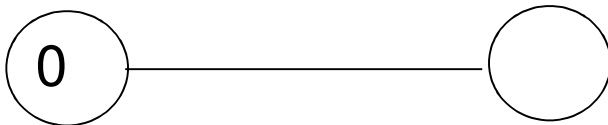
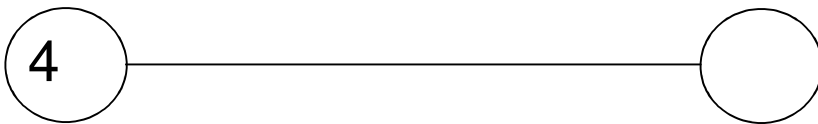
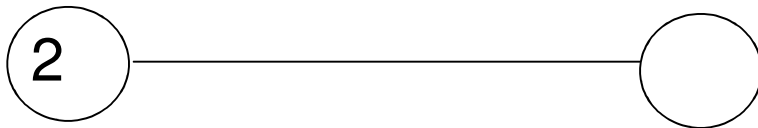
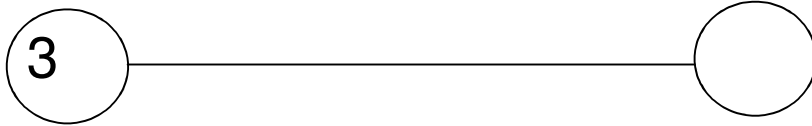
blau

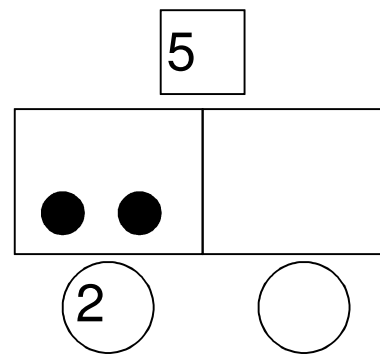
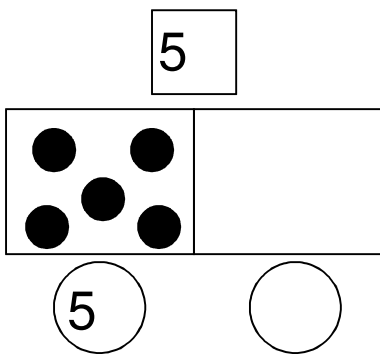
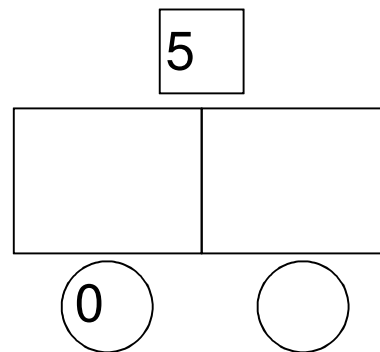
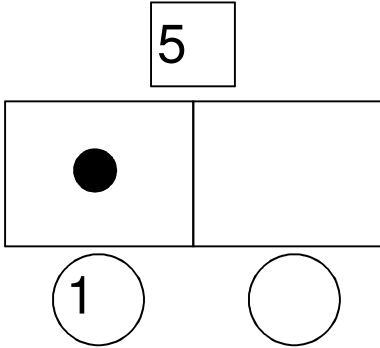
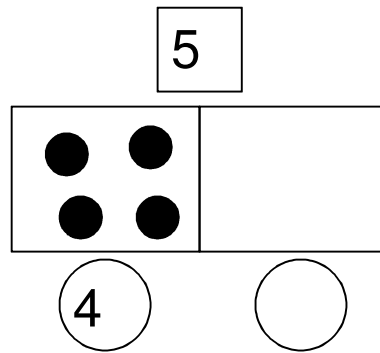
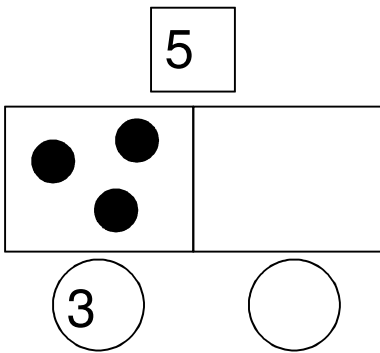
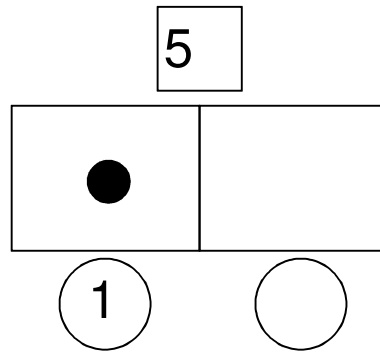
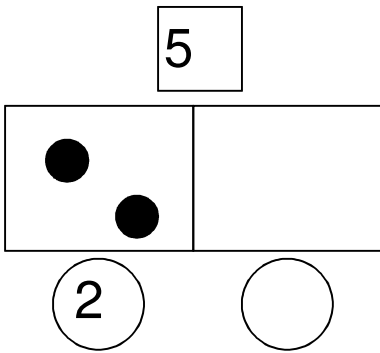
0	○	○	○	○	○	5
1	○	○	○	○	○	4
2	○	○	○	○	○	3
3	○	○	○	○	○	2
4	○	○	○	○	○	1
5	○	○	○	○	○	0
4	○	○	○	○	○	1
3	○	○	○	○	○	2
2	○	○	○	○	○	3
1	○	○	○	○	○	4
0	○	○	○	○	○	5

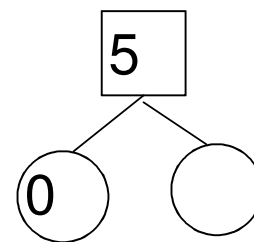
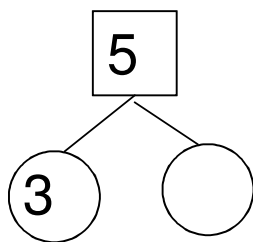
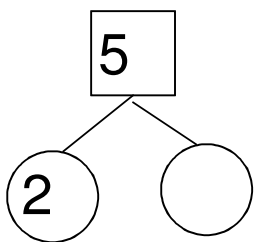
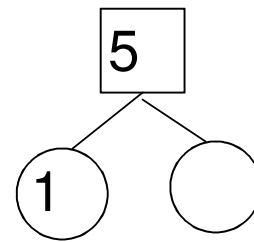
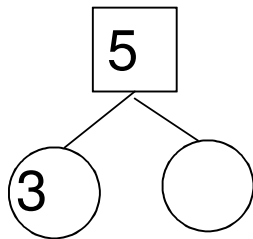
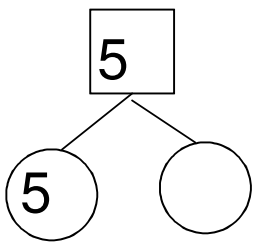
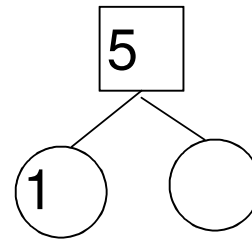
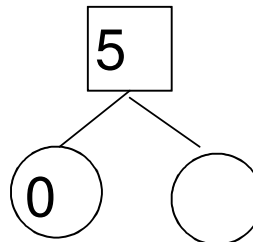
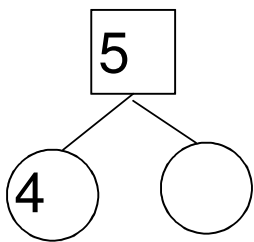
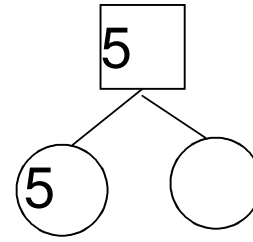
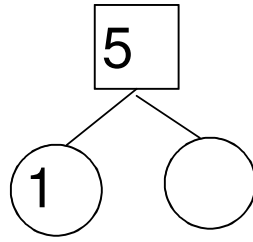
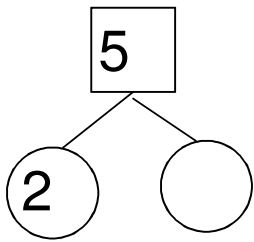
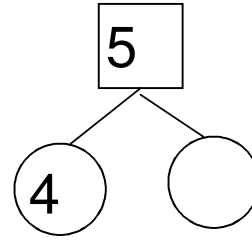
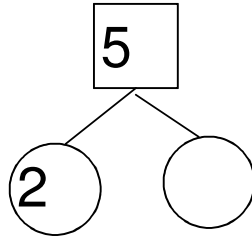
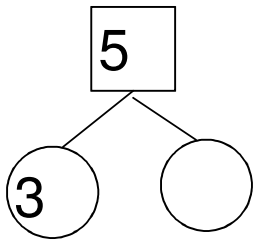
IMMER **5** gehören zusammen!

A collection of 25 circles, each containing a number. The numbers are: 3, 2, 2, 3, 5, 3, 4, 1, 0, 1, 2, 3, 4, 0, 5, 1, 4, 3, 1, 2, 4, 1, 3, 2, 0, 5.


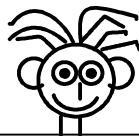
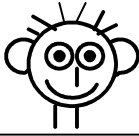
5


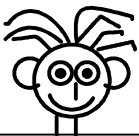
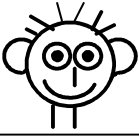




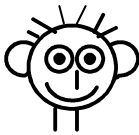



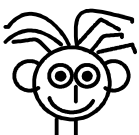
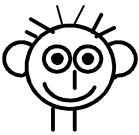



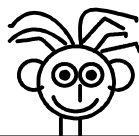
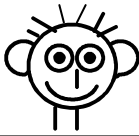
Hugo und Egon wollen teilen:


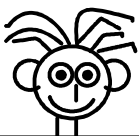

5 	
	
<input type="text"/>	+ <input type="text"/>

5 	
	
<input type="text"/>	+ <input type="text"/>

5 	
	
<input type="text"/>	+ <input type="text"/>

5 	
	
<input type="text"/>	+ <input type="text"/>

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<input type="text"/>	+ <input type="text"/>

5 	
	
<input type="text"/>	+ <input type="text"/>

$5 = \square + \square$

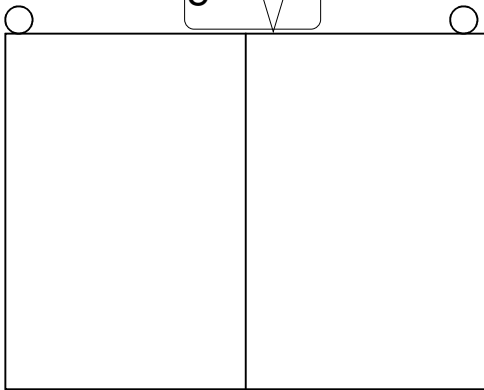
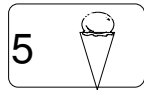
$5 = \square + \square$

$5 = \square + \square$

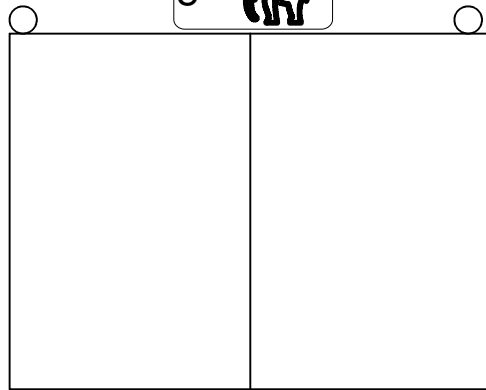
$5 = \square + \square$

$5 = \square + \square$

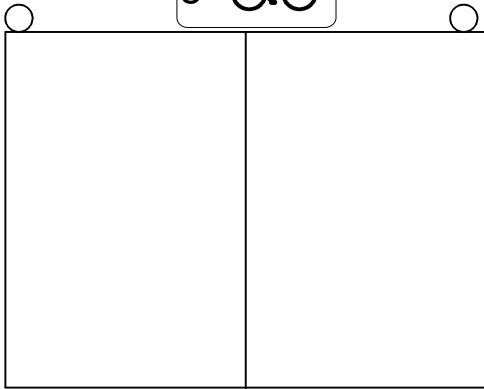
$5 = \square + \square$



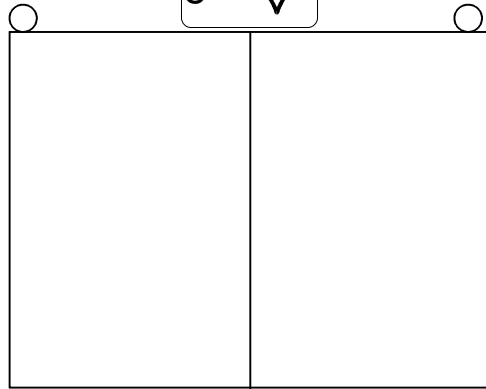
$$\square + \square = 5$$



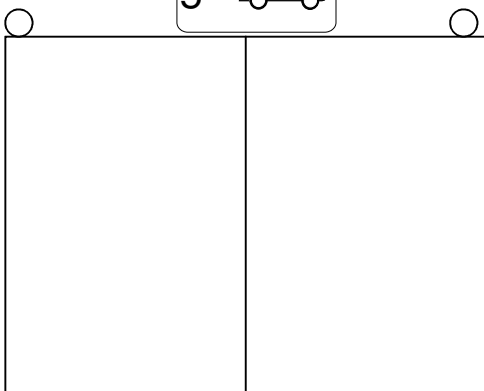
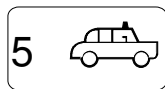
$$\square + \square = 5$$



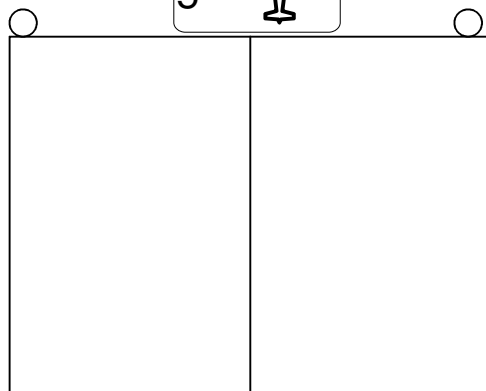
$$\square + \square = 5$$



$$\square + \square = 5$$



$$\square + \square = 5$$



$$\square + \square = 5$$

$$3 \quad \text{Heart} \quad + \quad \square \quad \text{Heart} \quad = 5$$

$$2 \quad \text{Lion} \quad + \quad \square \quad \text{Lion} \quad = 5$$

$$4 \quad \text{Taxi} \quad + \quad \square \quad \text{Taxi} \quad = 5$$

$$0 \quad \text{Helicopter} \quad + \quad \square \quad \text{Helicopter} \quad = 5$$

$$1 \quad \text{Airplane} \quad + \quad \square \quad \text{Airplane} \quad = 5$$

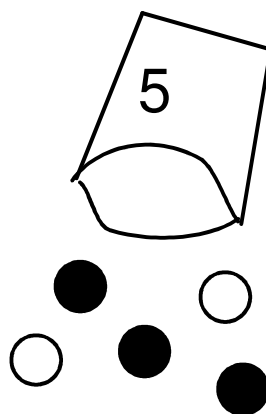
$$3 \quad \text{Tractor} \quad + \quad \square \quad \text{Tractor} \quad = 5$$

$$2 \quad \text{Kangaroo} \quad + \quad \square \quad \text{Kangaroo} \quad = 5$$

$$5 \quad \text{Scissors} \quad + \quad \square \quad \text{Scissors} \quad = 5$$

a) Würfle mit zweifarbigen Rechenplättchen und schreibe die Aufgaben in das Kästchen!

$$2 + 3 = 5$$



b) Schreibe die verschiedenen Aufgaben, die du gewürfelt hast, hier noch einmal auf! Hast du alle 6 Aufgaben gewürfelt?

5

0 + 5
1 + 4
2 +
3 +
4 +
5 +

5

5 +
4 +
3 +
2 +
1 +
0 +

5

4 +
0 +
5 +
1 +
3 +
2 +

5

+ 0
+ 1
+ 2
+ 3
+ 4
+ 5

5

+ 5
+ 4
+ 3
+ 2
+ 1
+ 0

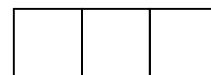
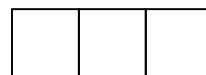
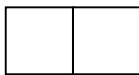
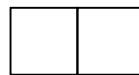
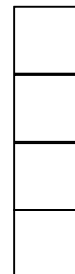
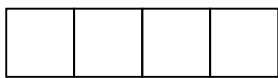
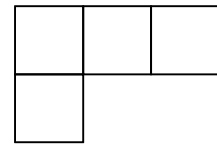
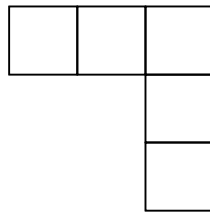
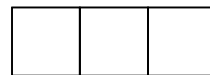
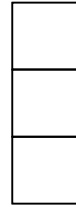
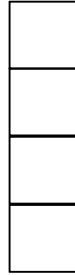
5

+ 3
+ 5
+ 2
+ 0
+ 4
+ 1

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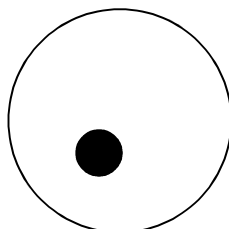
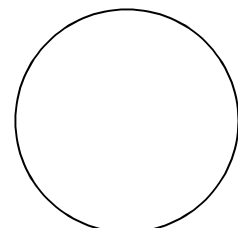
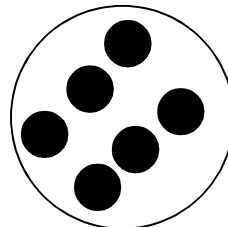
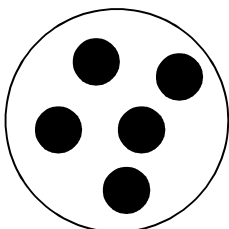
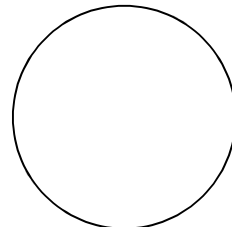
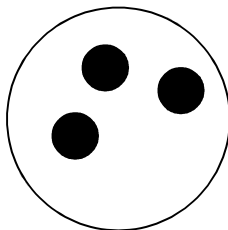
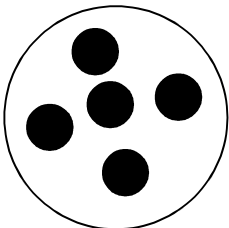
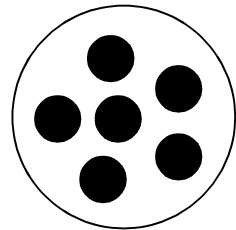
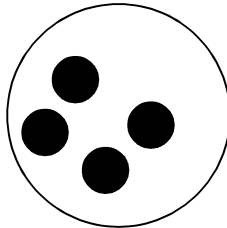
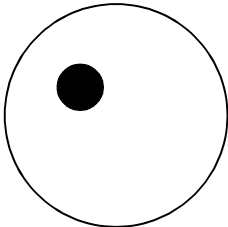
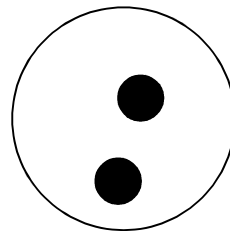
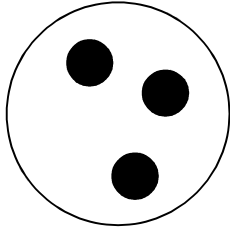
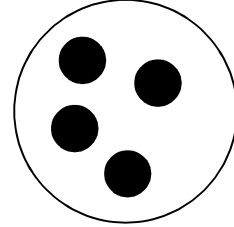
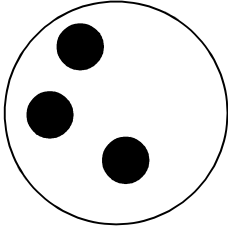
gehören zusammen!



IMMER



gehören zusammen!



a) Male die entsprechende Anzahl Punkte mit gelb und blau aus!

gelb		blau
0	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	6
1	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	5
2	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	4
3	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	3
4	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	2
5	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	1
6	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	0

b) Schreibe die Aufgaben auf!



IMMER



gehören zusammen!

A collection of 25 circles, each containing a single digit from 0 to 6. The digits are scattered across the page, intended to be connected to form the number 6.

4	2		2	
			4	3
	1	5		3
			0	
	3			4
2			6	
	3			2
4				
			3	3
1	4			
			1	
5	2	6		
			0	
				5

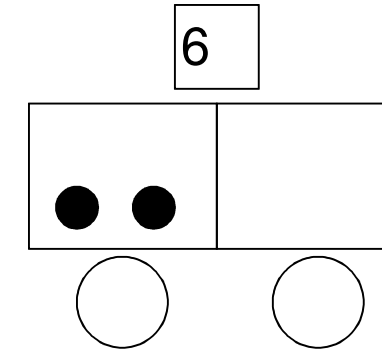
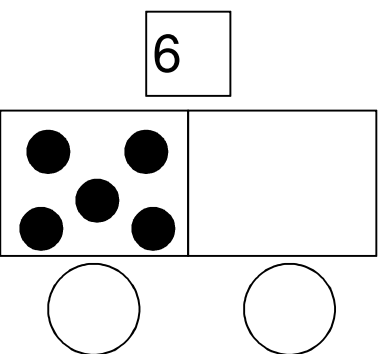
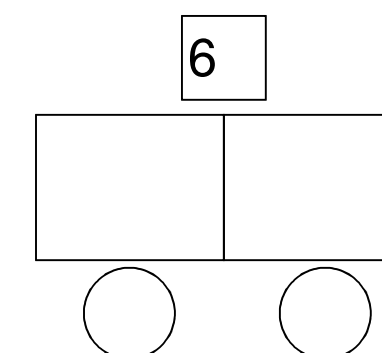
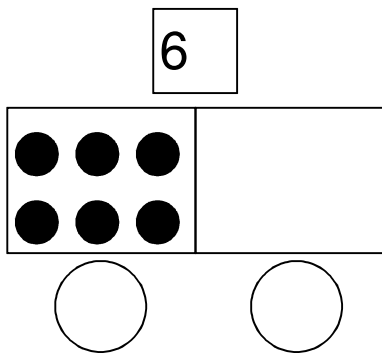
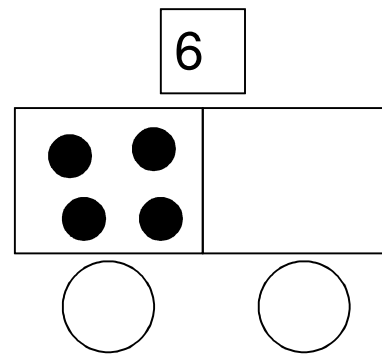
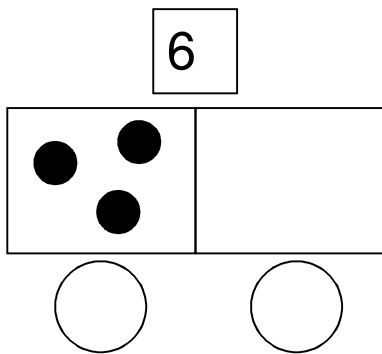
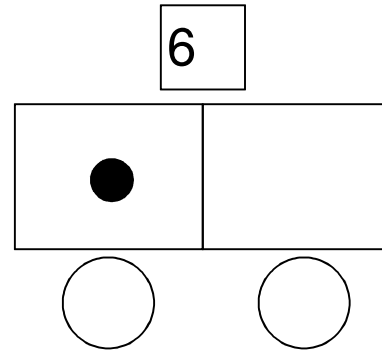
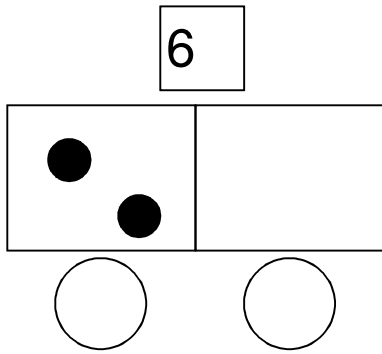


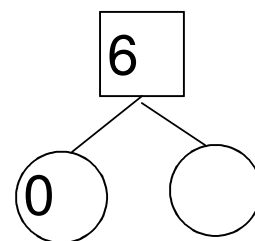
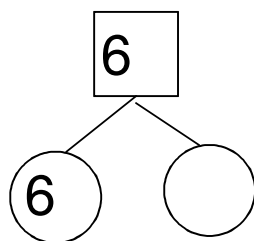
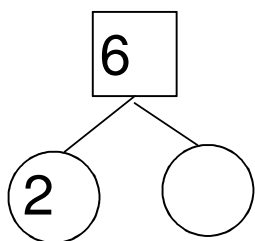
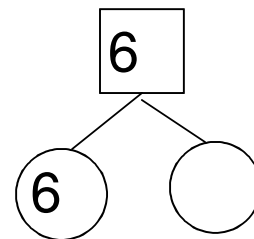
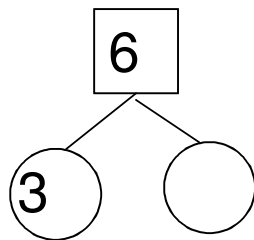
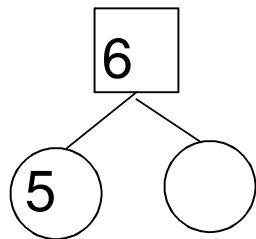
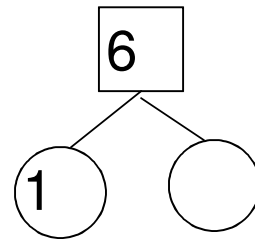
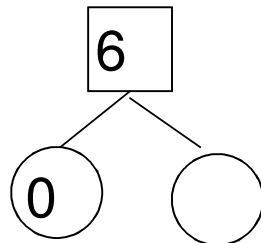
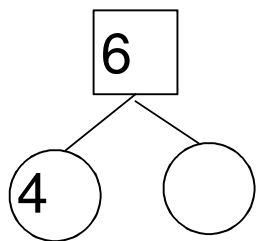
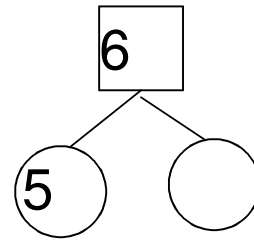
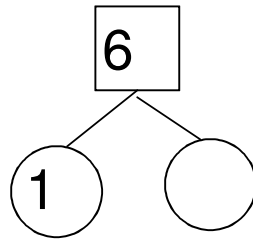
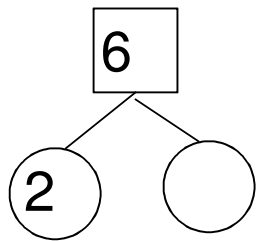
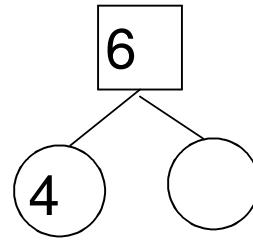
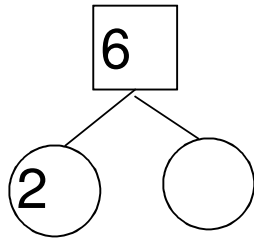
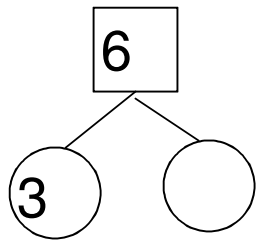
a)

3	_____	○
1	_____	○
6	_____	○
4	_____	○
0	_____	○
3	_____	○
1	_____	○
5	_____	○
0	_____	○
2	_____	○

b)

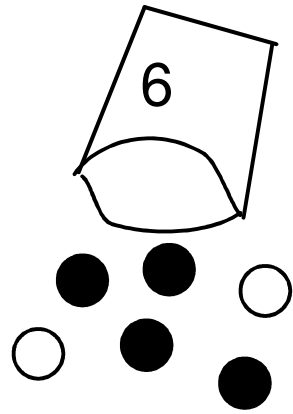
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<input type="text"/>
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<input type="text"/>
<input type="text"/>





a) Würfle mit zweifarbigen Rechenplättchen und schreibe die Aufgaben in das Kästchen!

$$2 + 4 = 6$$



b) Schreibe die verschiedenen Aufgaben, die du gewürfelt hast, hier noch einmal auf! Hast du alle 7 Aufgaben gewürfelt?

$2 + \boxed{\bullet \bullet} = 4$

$4 + \boxed{} = 6$

$5 + \boxed{} = 6$

$3 + \boxed{} = 6$

$2 + \boxed{} = 3$

$0 + \boxed{} = 2$

$2 + \boxed{} = 5$

$1 + \boxed{} = 4$

$0 + \boxed{} = 3$

$2 + \boxed{} = 6$

$3 + \boxed{} = 5$

$5 + \boxed{} = 6$

$1 + \boxed{} = 5$

$4 + \boxed{} = 4$

$1 + \boxed{} = 6$

$4 + \boxed{} = 5$

$2 + \square = 5$

$0 + \square = 4$

$3 + \square = 4$

$5 + \square = 6$

$1 + \square = 6$

$1 + \square = 5$

$2 + \square = 4$

$4 + \square = 6$

$3 + \square = 5$

$1 + \square = 4$

$3 + \square = 6$

$4 + \square = 5$

$0 + \square = 6$

$2 + \square = 6$

$3 + \square = 5$

$1 + \square = 4$

$3 + \square = 6$

$4 + \square = 5$

$0 + \square = 6$

$2 + \square = 6$

6

0 + 6
1 + 5
2 +
3 +
4 +
5 +
6 +

6

6 +
5 +
4 +
3 +
2 +
1 +
0 +

6

4 +
0 +
5 +
6 +
1 +
3 +
2 +

6

+ 0
+ 1
+ 2
+ 3
+ 4
+ 5
+ 6

6

+ 6
+ 5
+ 4
+ 3
+ 2
+ 1
+ 0

6

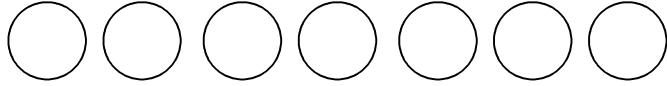
+ 3
+ 5
+ 2
+ 0
+ 6
+ 1
+ 4



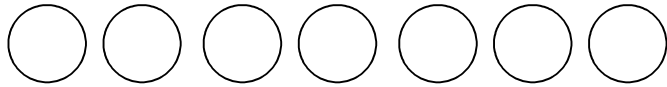
gelb

blau

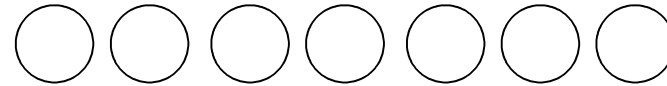
$$7 + 0$$



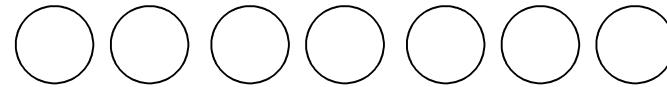
$$6 + 1$$



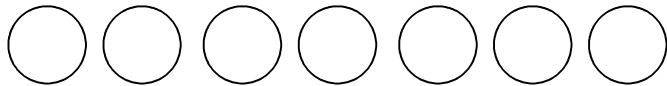
$$5 + 2$$



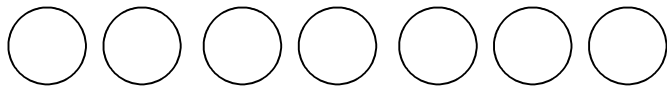
$$4 + 3$$



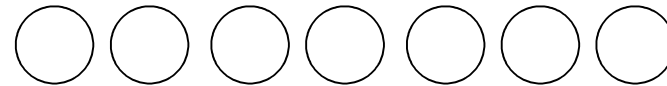
$$3 + 4$$



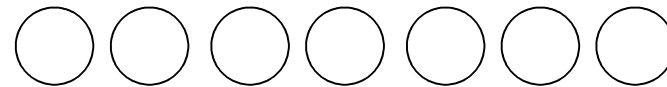
$$2 + 5$$

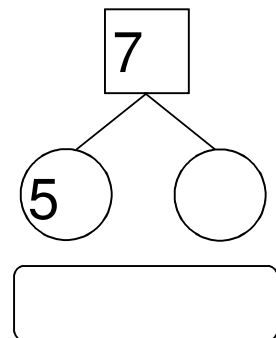
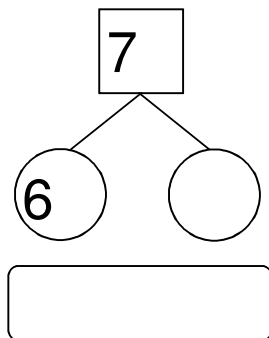
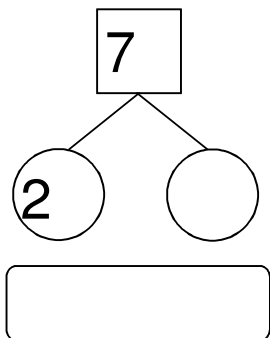
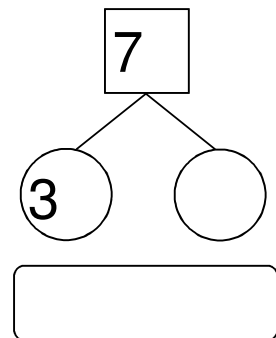
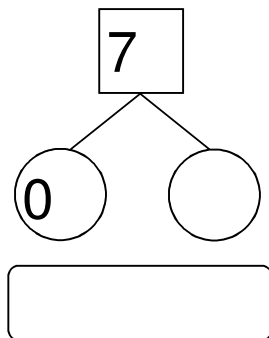
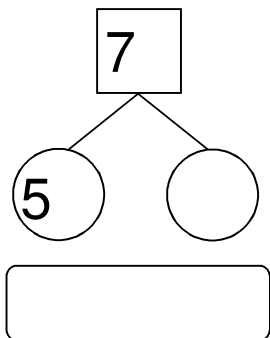
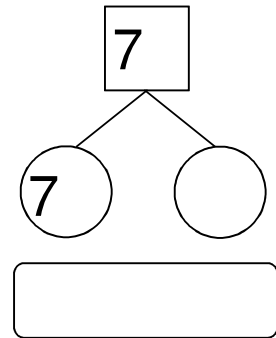
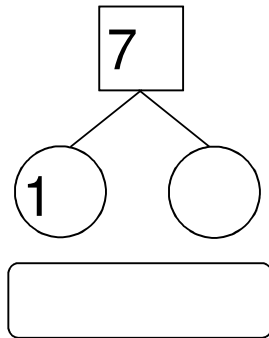
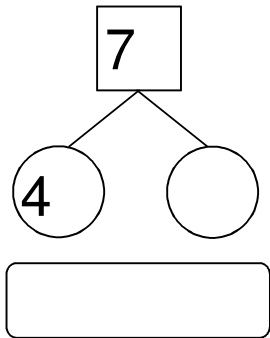
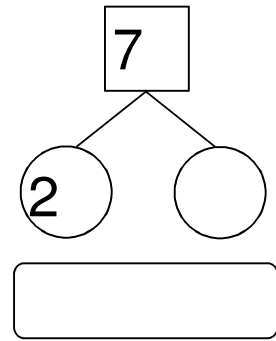
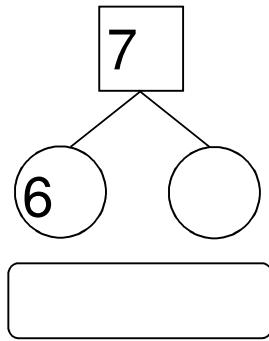
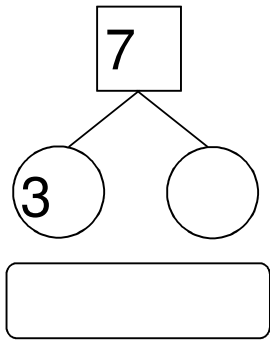


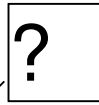
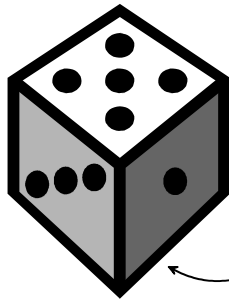
$$1 + 6$$



$$0 + 7$$







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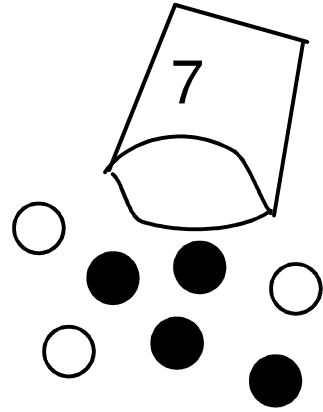
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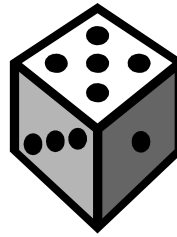
a) Würfle mit zweifarbigen Rechenplättchen und schreibe die Aufgaben in das Kästchen!

$$3 + 4 = 7$$



b) Schreibe die verschiedenen Aufgaben, die du gewürfelt hast, hier noch einmal auf! Hast du alle 8 Aufgaben gewürfelt?

<div style="text-align: center; margin-bottom: 5px;">7</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>0 + 7</td></tr> <tr><td>1 + 6</td></tr> <tr><td>2 +</td></tr> <tr><td>3 +</td></tr> <tr><td>4 +</td></tr> <tr><td>5 +</td></tr> <tr><td>6 +</td></tr> <tr><td>7 +</td></tr> </table>	0 + 7	1 + 6	2 +	3 +	4 +	5 +	6 +	7 +	<div style="text-align: center; margin-bottom: 5px;">7</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>7 +</td></tr> <tr><td>6 +</td></tr> <tr><td>5 +</td></tr> <tr><td>4 +</td></tr> <tr><td>3 +</td></tr> <tr><td>2 +</td></tr> <tr><td>1 +</td></tr> <tr><td>0 +</td></tr> </table>	7 +	6 +	5 +	4 +	3 +	2 +	1 +	0 +	<div style="text-align: center; margin-bottom: 5px;">7</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>4 +</td></tr> <tr><td>0 +</td></tr> <tr><td>7 +</td></tr> <tr><td>5 +</td></tr> <tr><td>6 +</td></tr> <tr><td>1 +</td></tr> <tr><td>3 +</td></tr> <tr><td>2 +</td></tr> </table>	4 +	0 +	7 +	5 +	6 +	1 +	3 +	2 +
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$5 + \square = 7$

$1 + \square = 7$

$2 + \square = 7$

$3 + \square = 7$

$6 + \square = 7$

$5 + \square = 7$

$1 + \square = 7$

$2 + \square = 7$

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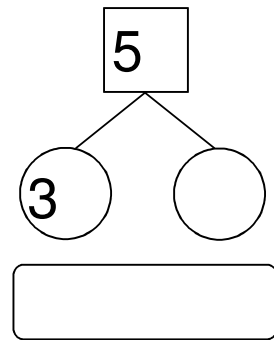
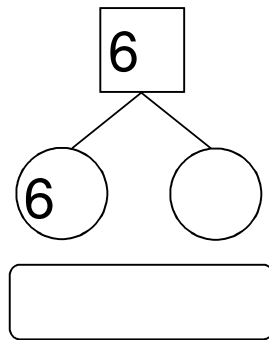
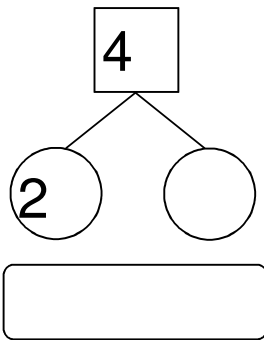
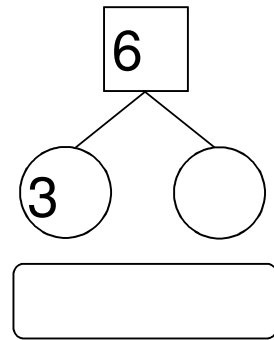
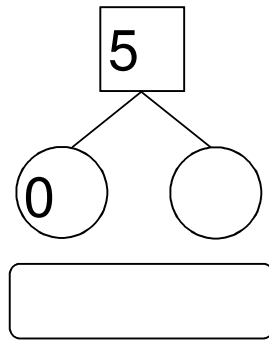
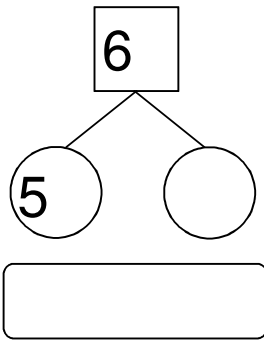
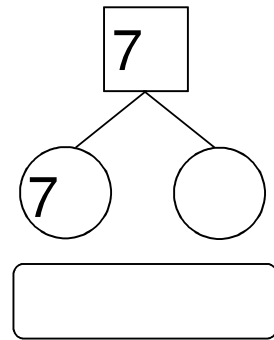
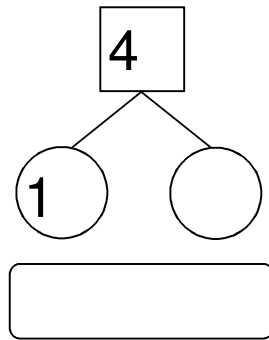
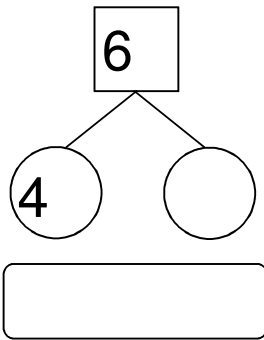
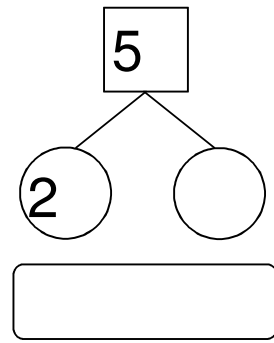
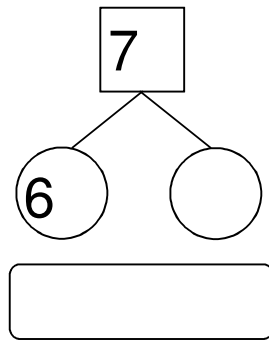
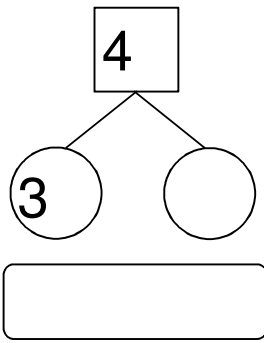
$1 + \square = 7$

$3 + \square = 7$

$6 + \square = 7$

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$5 + \square = 7$

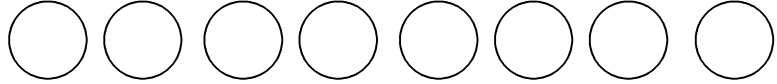




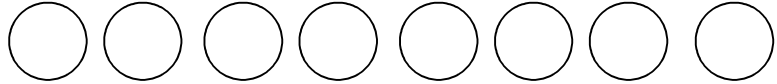
gelb

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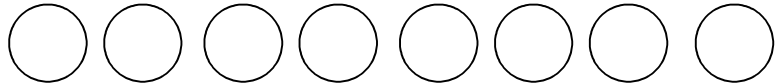
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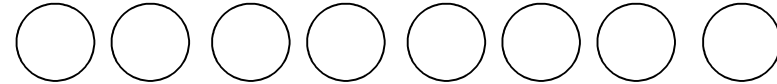
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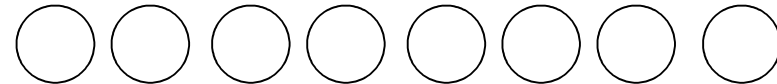
$6 + 2$



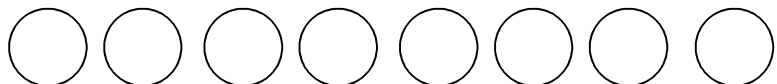
$5 + 3$



$4 + 4$



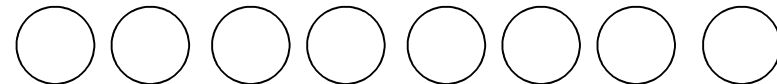
$3 + 5$



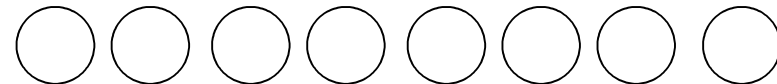
$2 + 6$

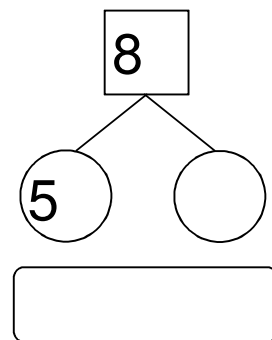
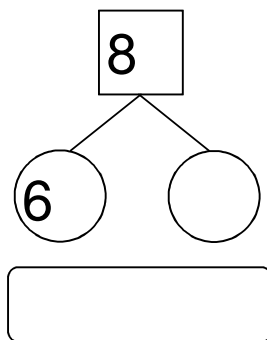
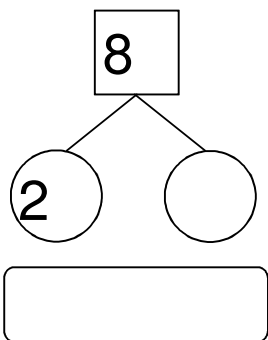
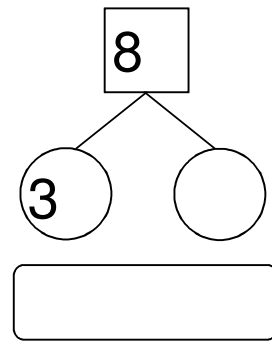
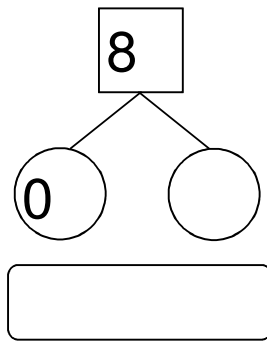
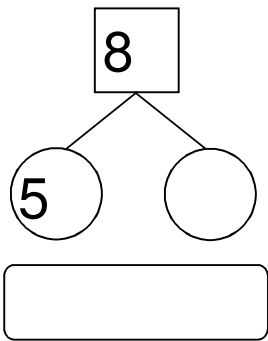
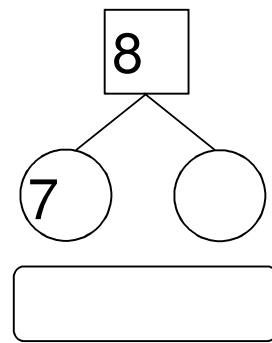
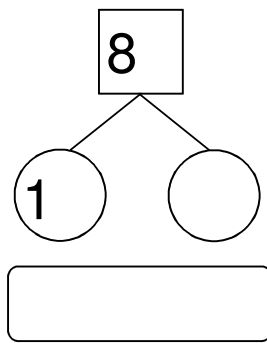
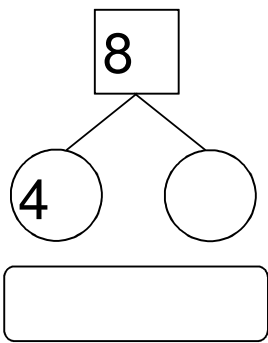
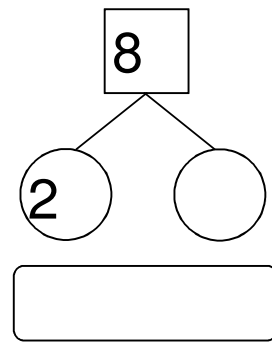
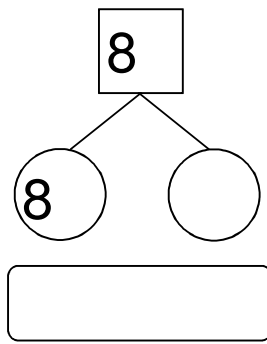
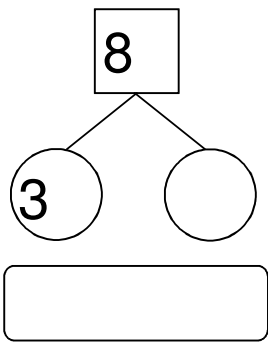


$1 + 7$



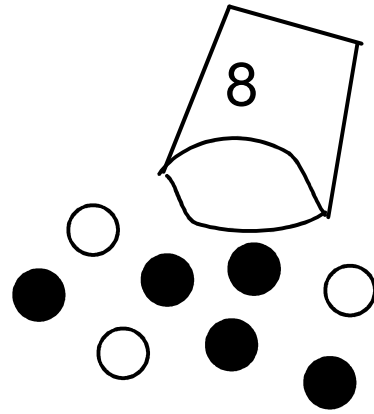
$0 + 8$





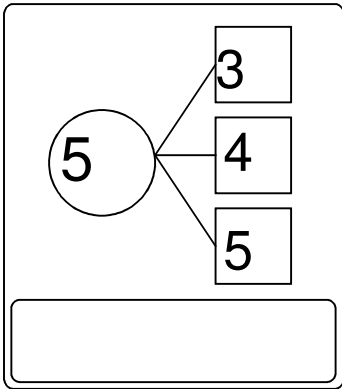
a) Würfle mit zweifarbigen Rechenplättchen und schreibe die Aufgaben in das Kästchen!

$$3 + 5 = 8$$

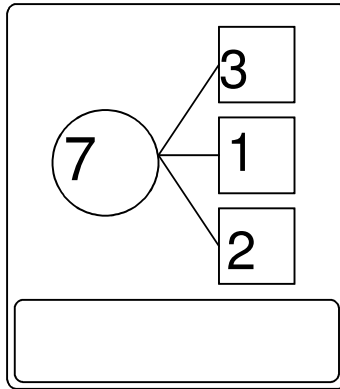


b) Schreibe die verschiedenen Aufgaben, die du gewürfelt hast, hier noch einmal auf! Hast du alle 8 Aufgaben gewürfelt?

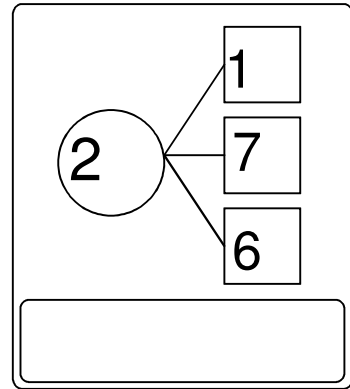
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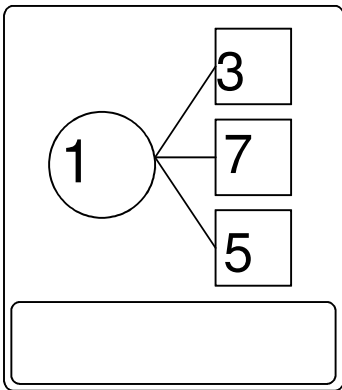
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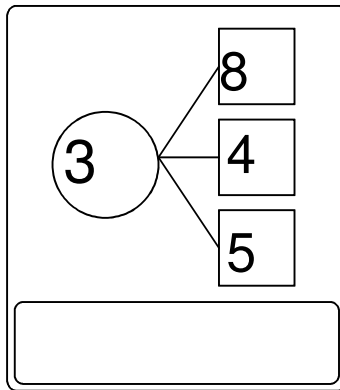
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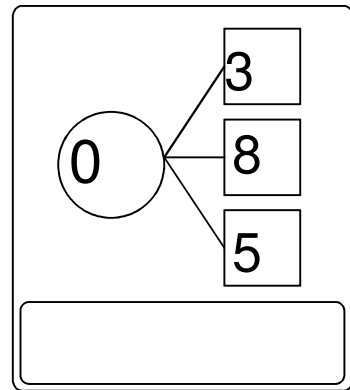
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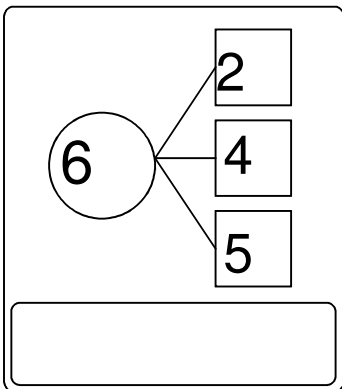
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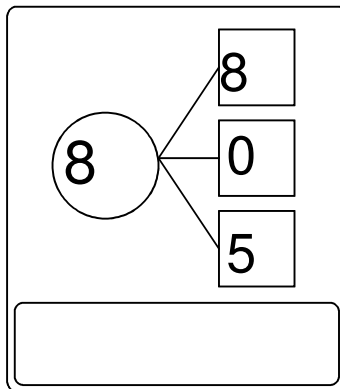
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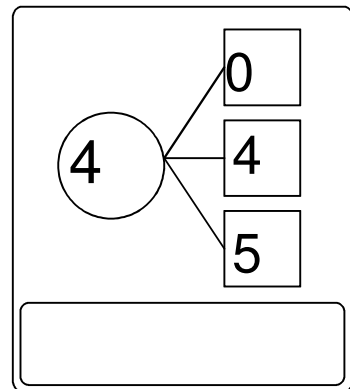
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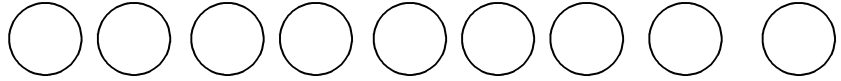
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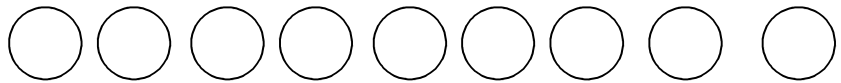
$9 + 0$



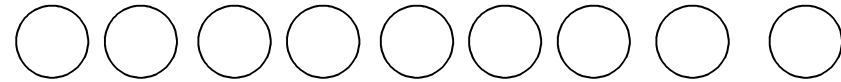
$8 + 1$



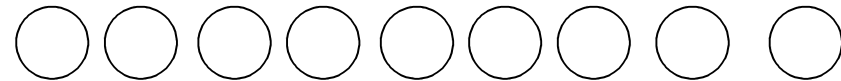
$7 + 2$



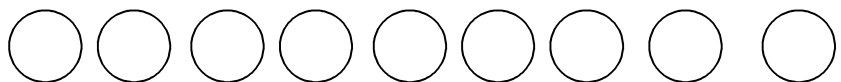
$6 + 3$



$5 + 4$



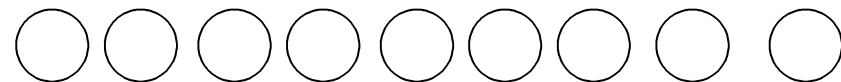
$4 + 5$



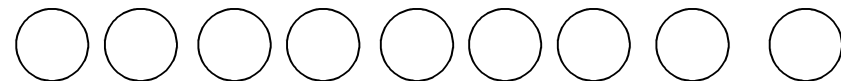
$3 + 6$



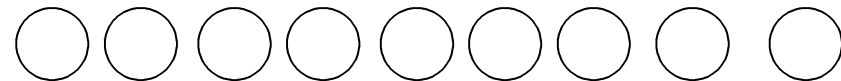
$2 + 7$

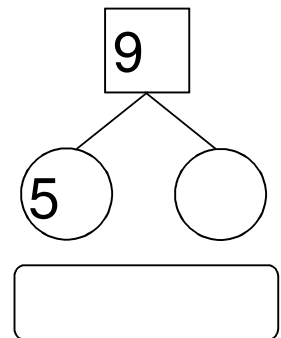
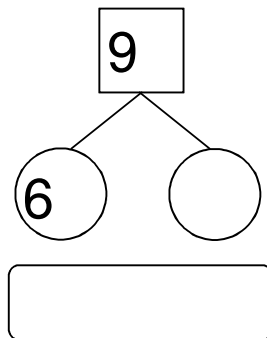
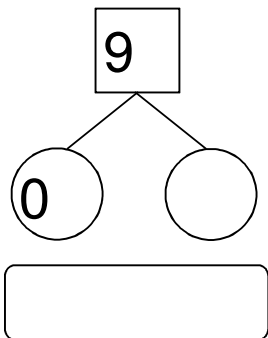
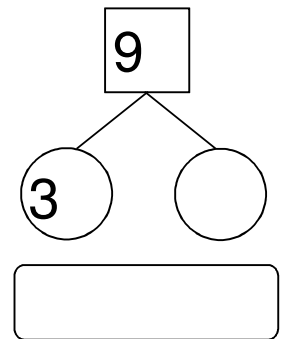
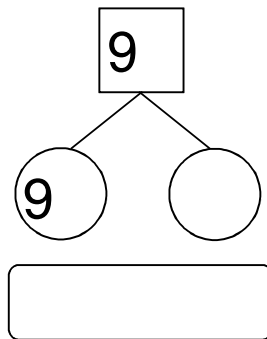
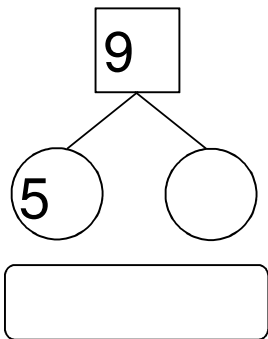
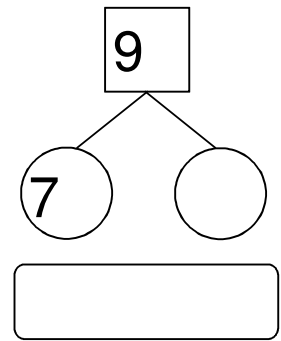
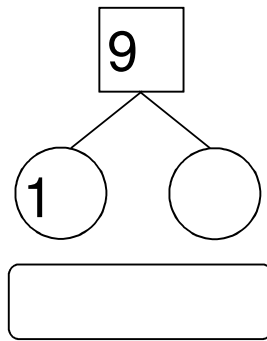
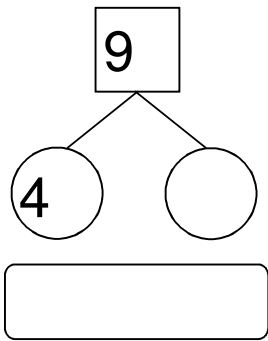
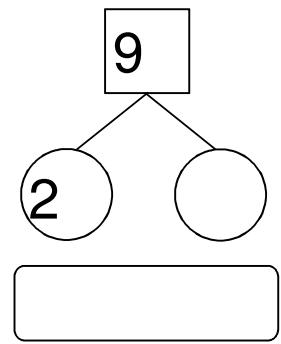
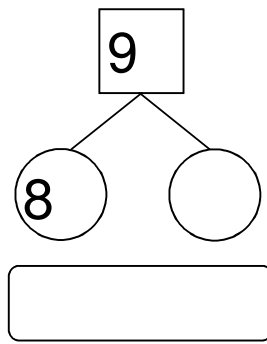
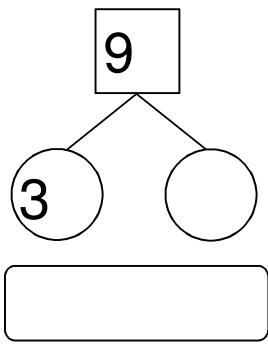


$1 + 8$



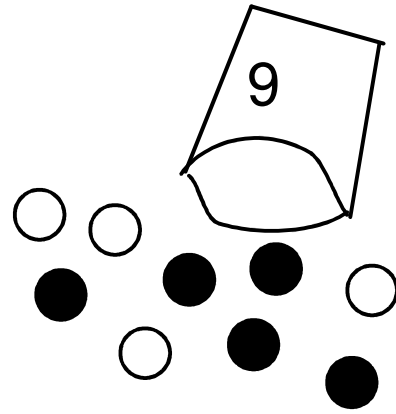
$0 + 9$





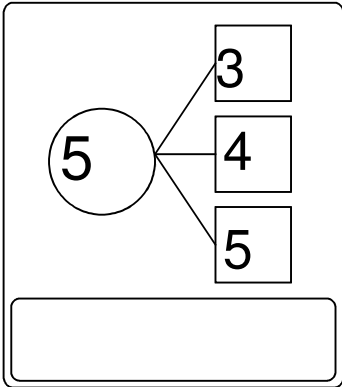
a) Würfle mit zweifarbigen Rechenplättchen und schreibe die Aufgaben in das Kästchen!

$$4 + 5 = 9$$

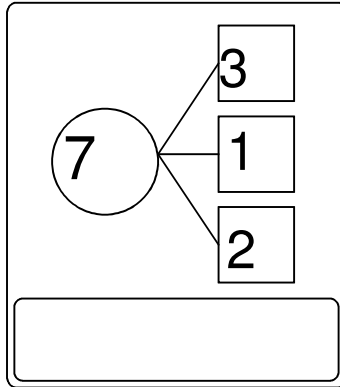


b) Schreibe die verschiedenen Aufgaben, die du gewürfelt hast, hier noch einmal auf! Hast du alle 8 Aufgaben gewürfelt?

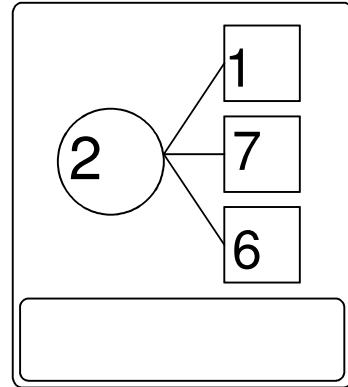
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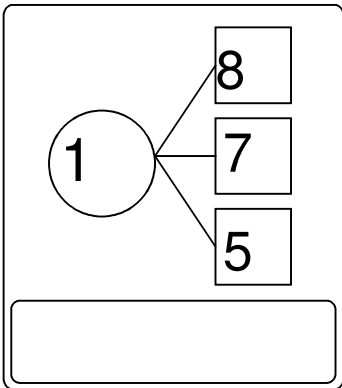
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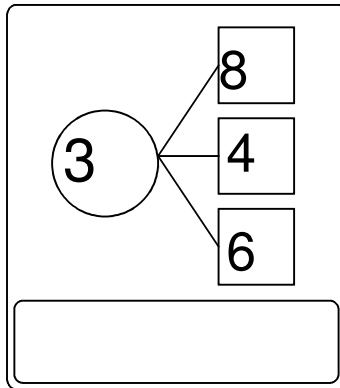
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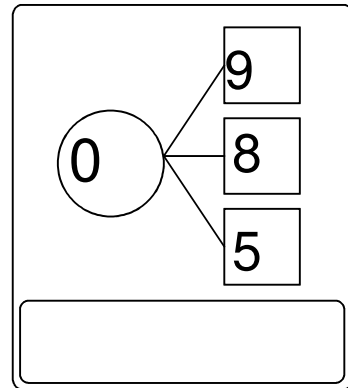
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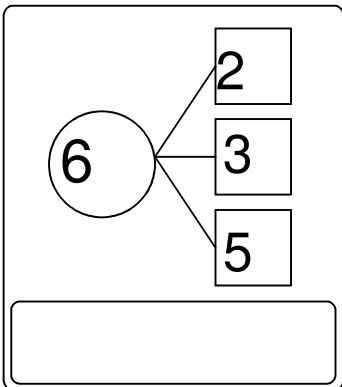
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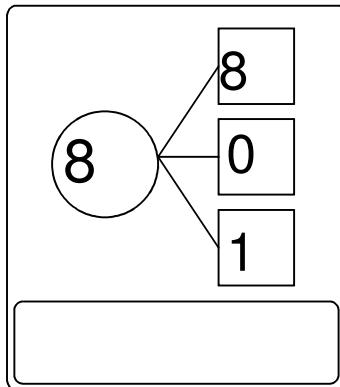
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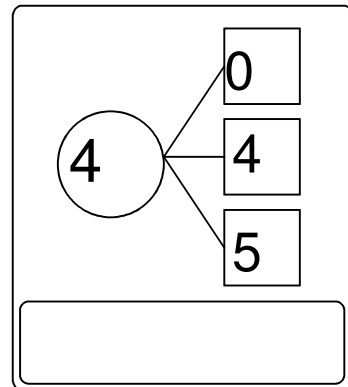
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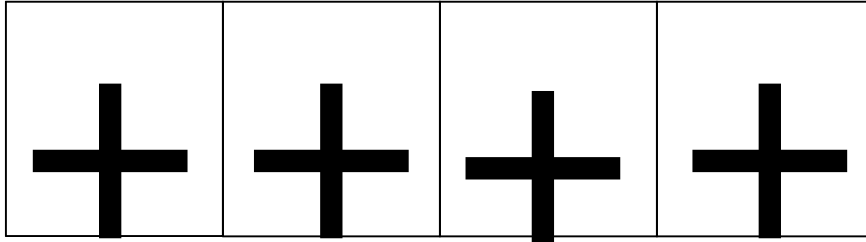
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9



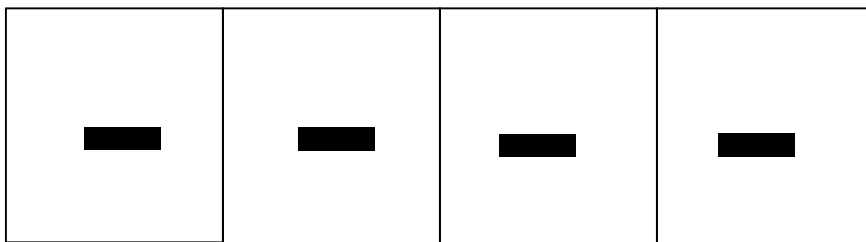
Wir üben die Geheimzeichen



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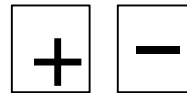


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Wir üben die Geheimzeichen



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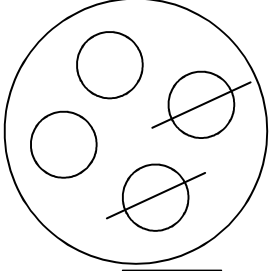
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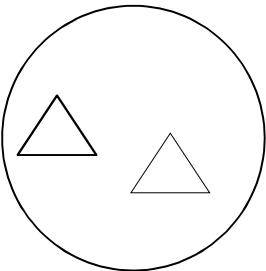
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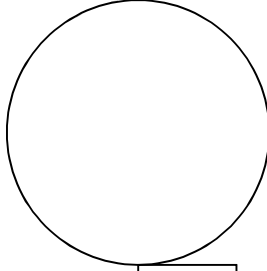
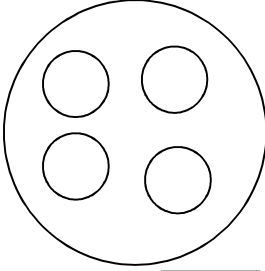
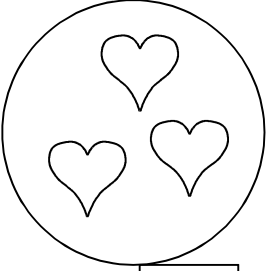
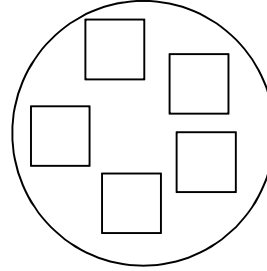
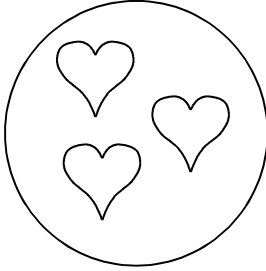
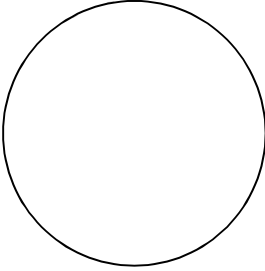
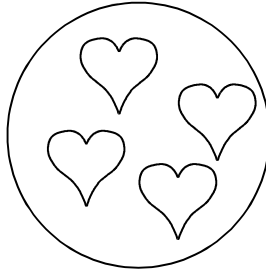
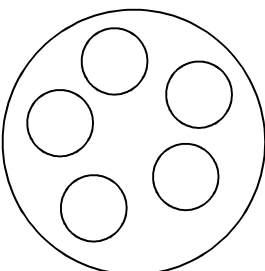
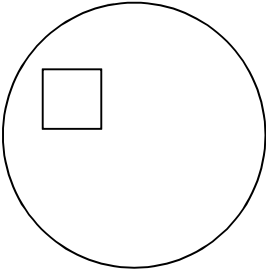
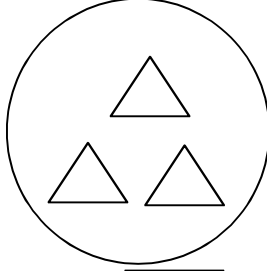
Immer 2



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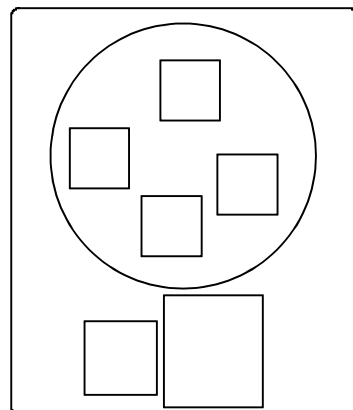
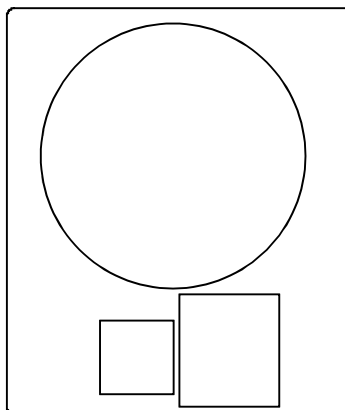
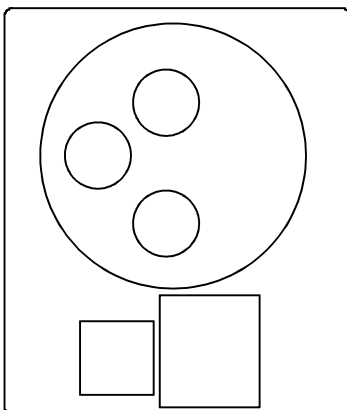
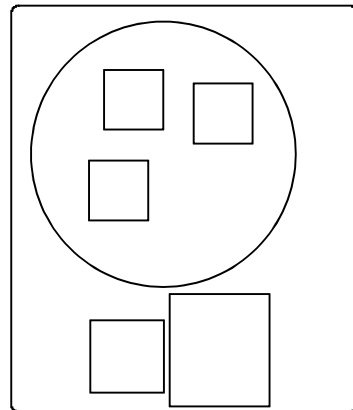
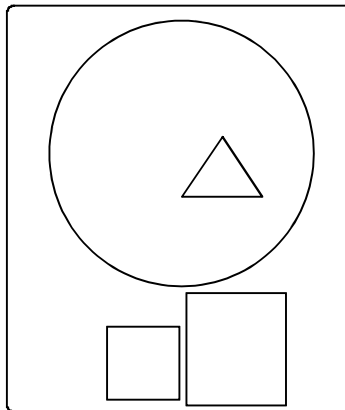
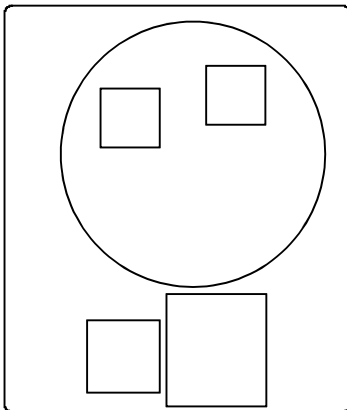
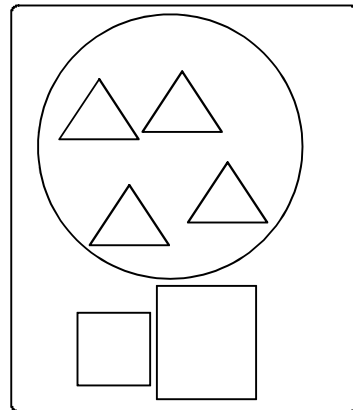
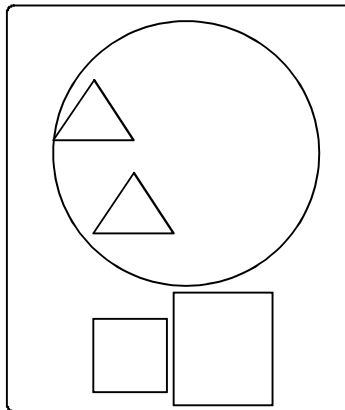
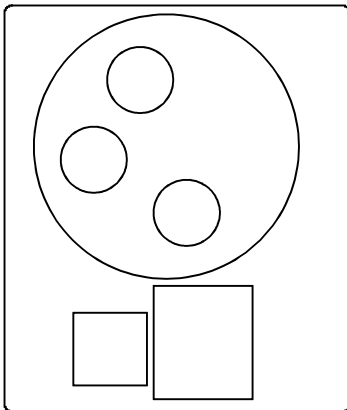
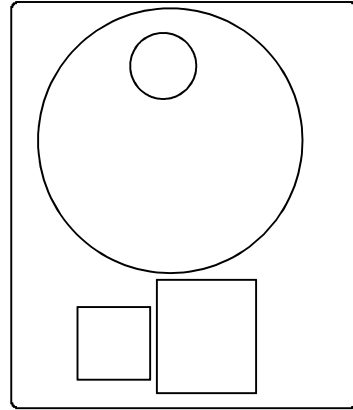
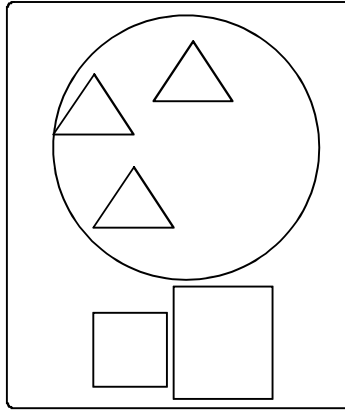
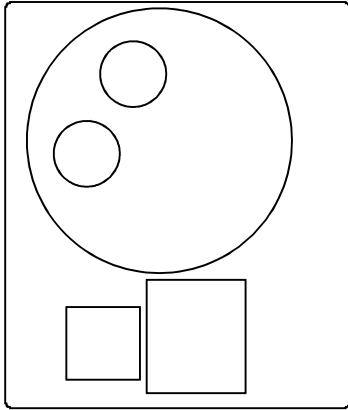


Immer 3

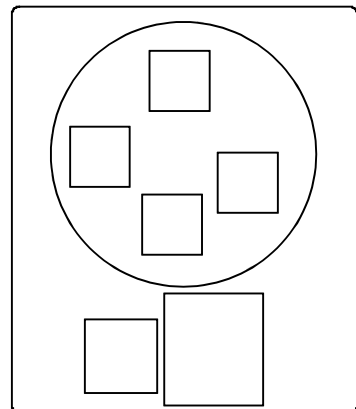
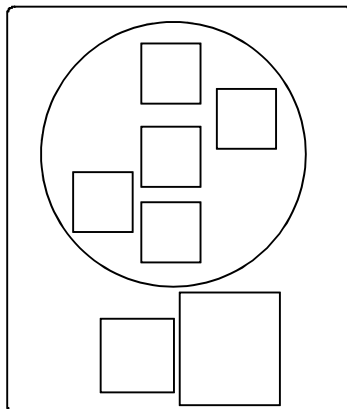
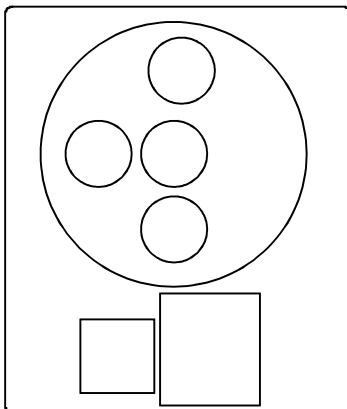
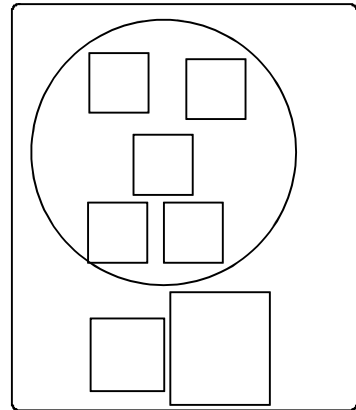
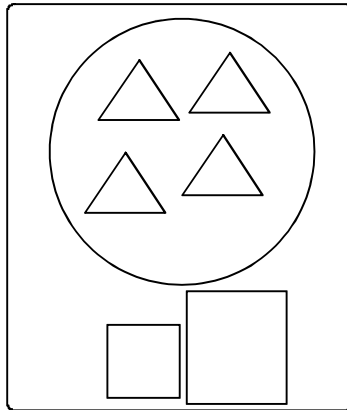
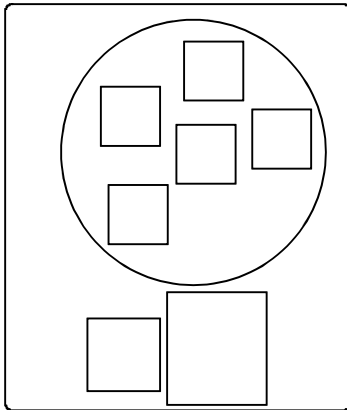
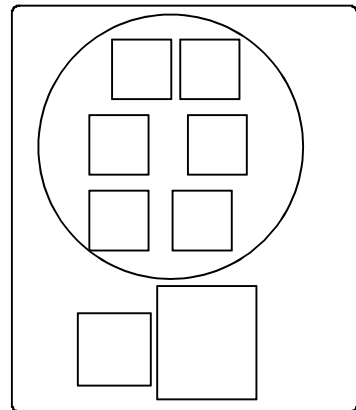
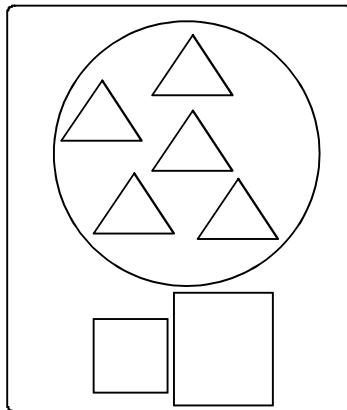
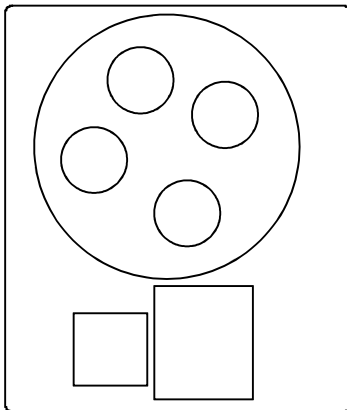
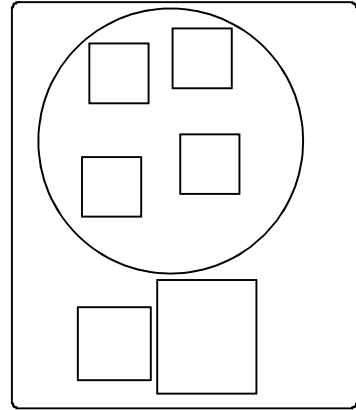
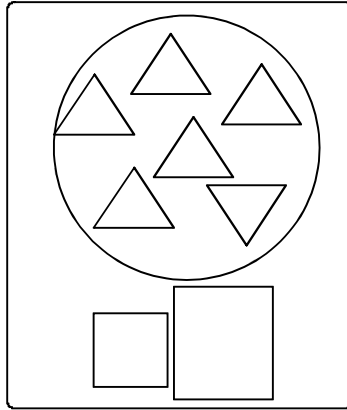
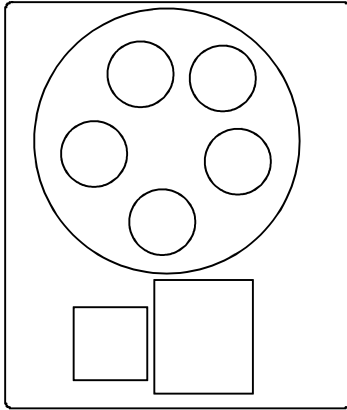
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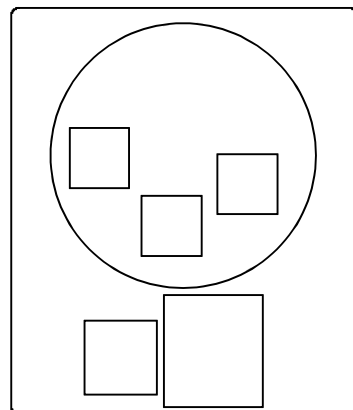
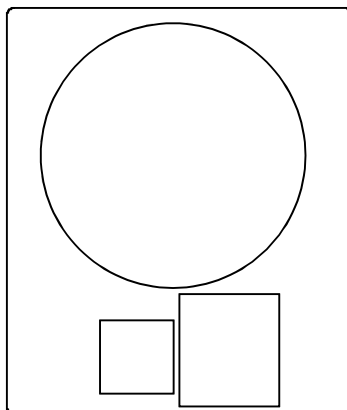
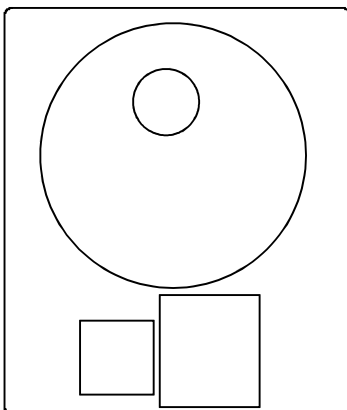
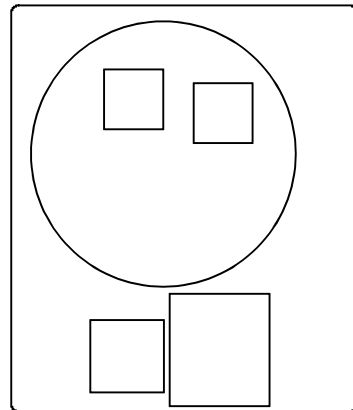
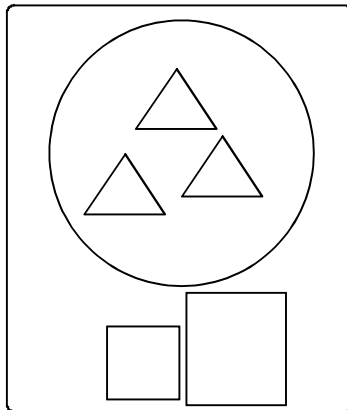
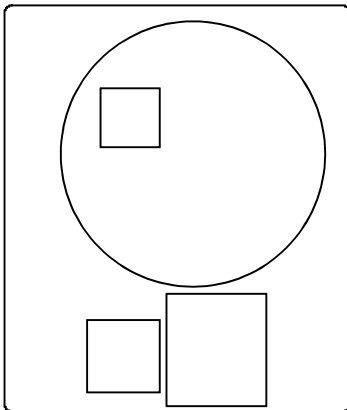
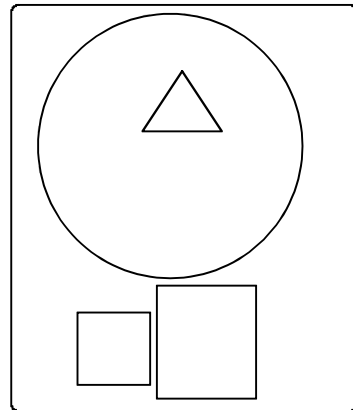
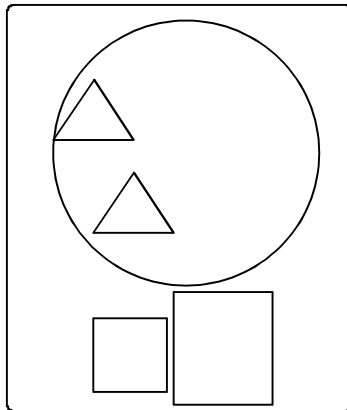
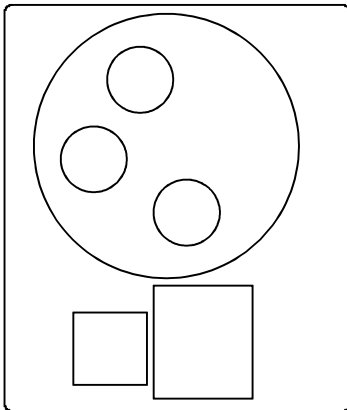
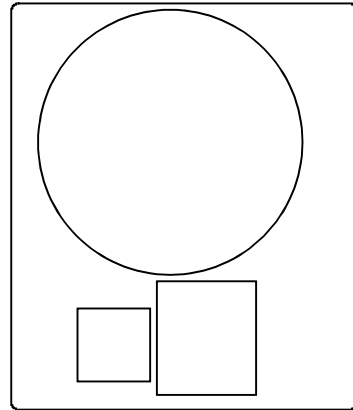
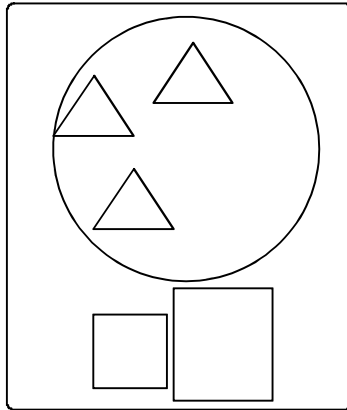
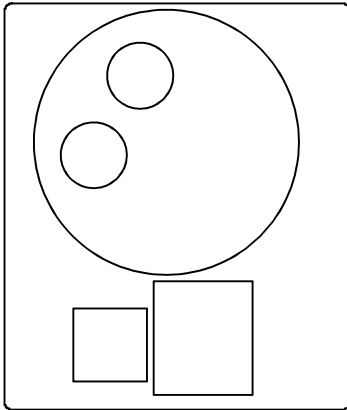
Immer 4

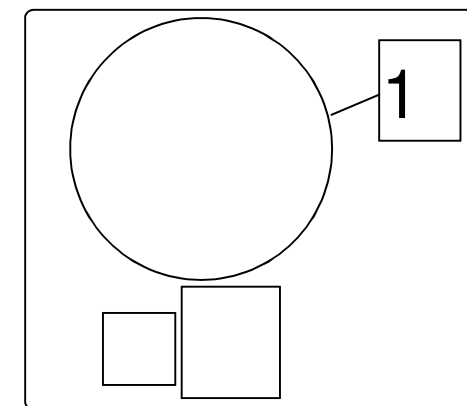
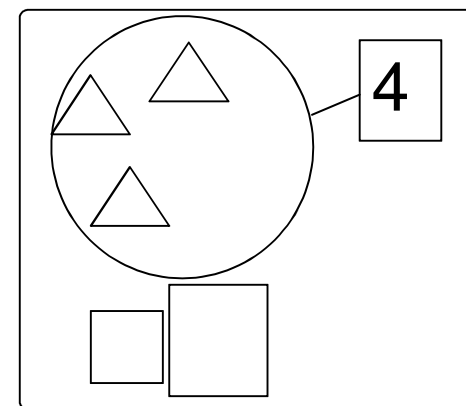
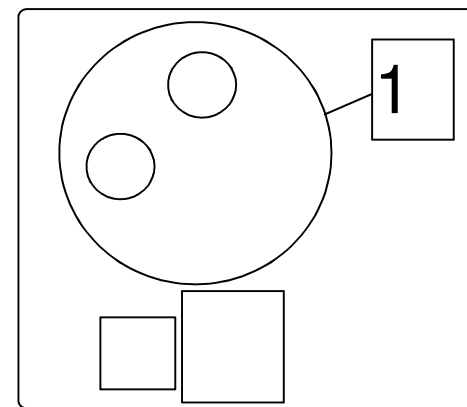
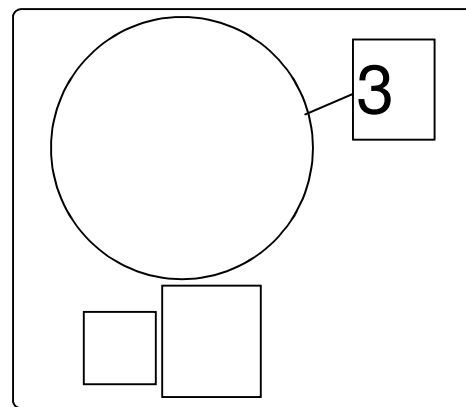
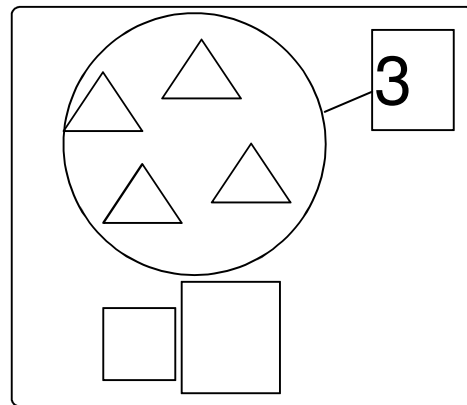
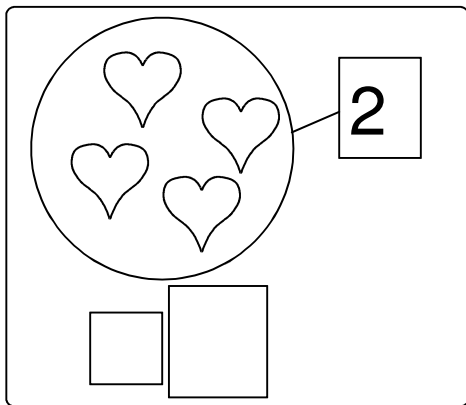
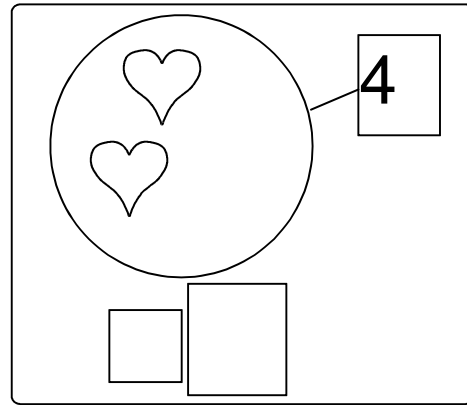
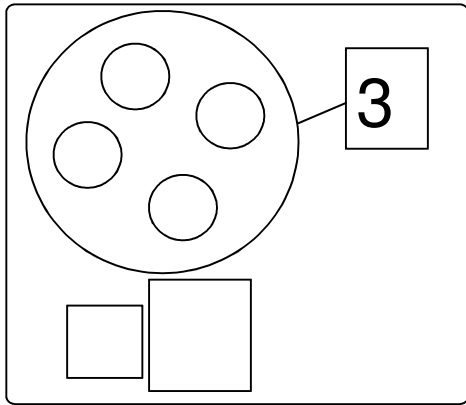


Immer 4

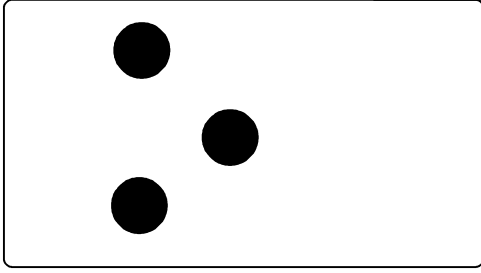


Immer 4

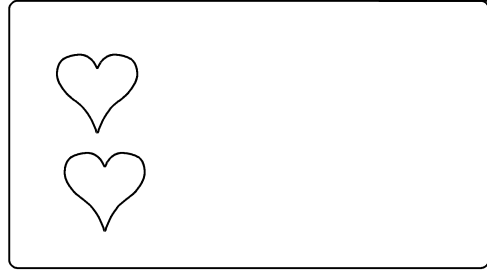




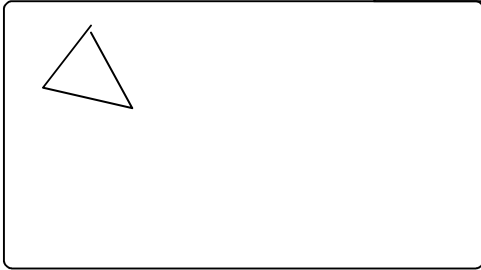
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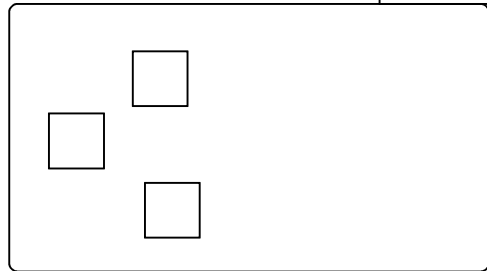
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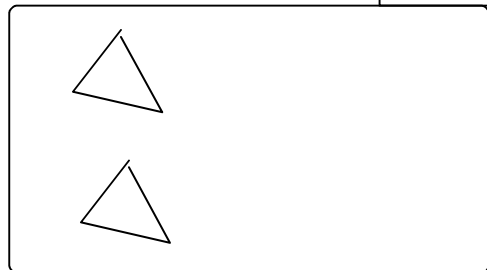
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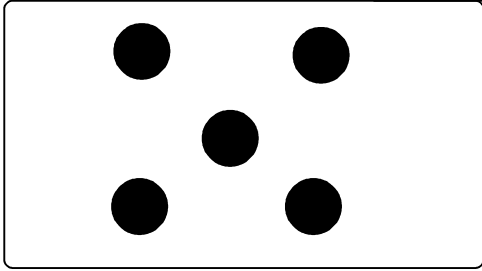
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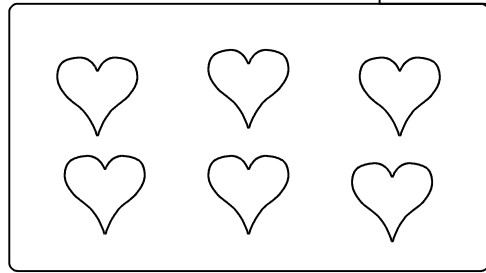
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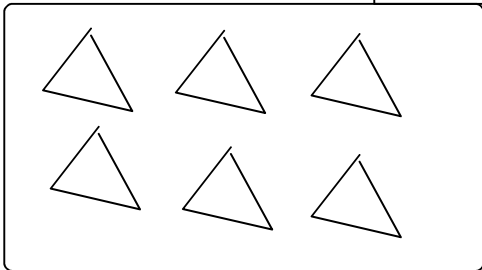
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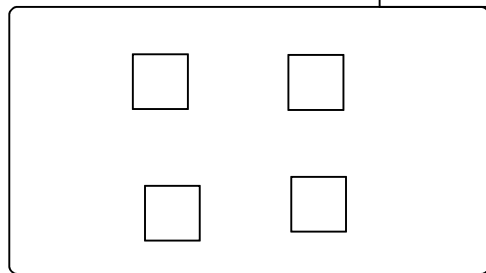
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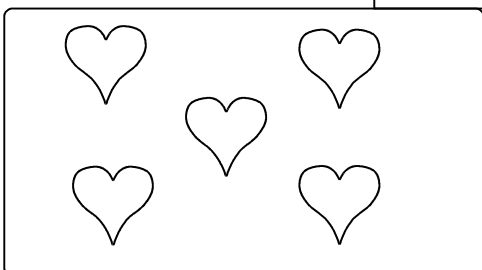
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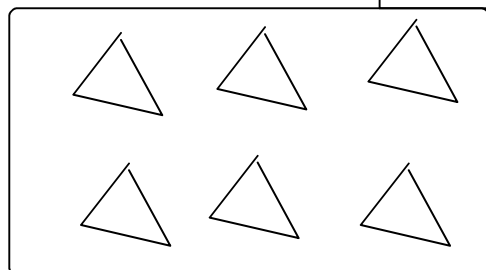
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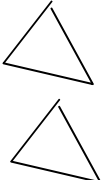
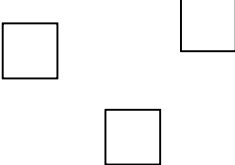
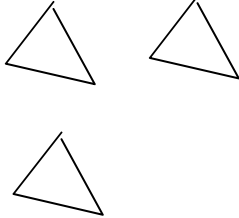


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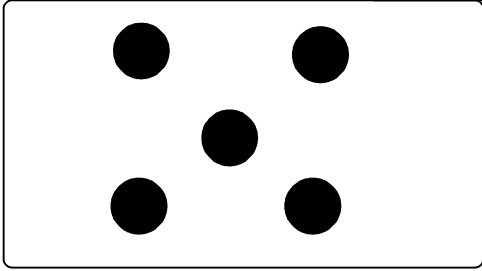


4

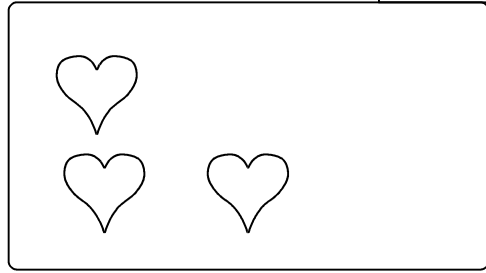


<div style="text-align: right; border: 1px solid black; padding: 2px; width: 30px; float: right;">3</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;">  </div> <div style="border: 1px solid black; height: 30px; margin-top: 10px;"></div>	<div style="text-align: right; border: 1px solid black; padding: 2px; width: 30px; float: right;">2</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;">  </div> <div style="border: 1px solid black; height: 30px; margin-top: 10px;"></div>
<div style="text-align: right; border: 1px solid black; padding: 2px; width: 30px; float: right;">4</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;">  </div> <div style="border: 1px solid black; height: 30px; margin-top: 10px;"></div>	<div style="text-align: right; border: 1px solid black; padding: 2px; width: 30px; float: right;">3</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;">  </div> <div style="border: 1px solid black; height: 30px; margin-top: 10px;"></div>
<div style="text-align: right; border: 1px solid black; padding: 2px; width: 30px; float: right;">2</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;"></div> <div style="border: 1px solid black; height: 30px; margin-top: 10px;"></div>	<div style="text-align: right; border: 1px solid black; padding: 2px; width: 30px; float: right;">4</div> <div style="border: 1px solid black; height: 100px; margin-top: 10px;">  </div> <div style="border: 1px solid black; height: 30px; margin-top: 10px;"></div>

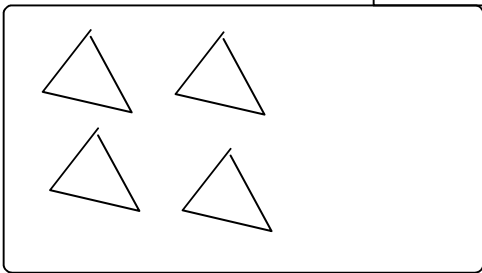
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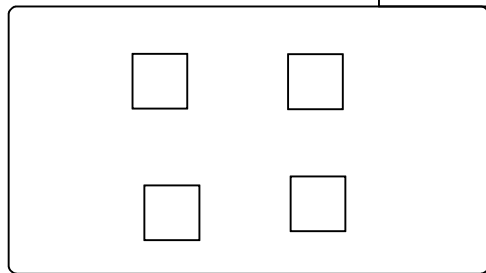
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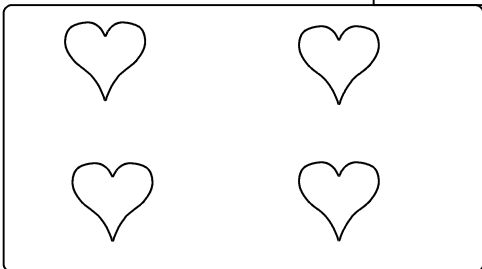
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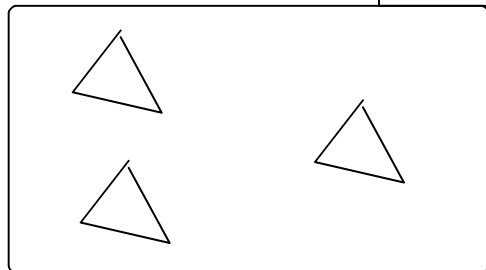
4



2



0



Two boxes containing 2 dots and 1 dot respectively. Below them is a large empty box with a plus sign (+), a smaller empty box with an equals sign (=), and a larger empty box for the result.

Two boxes containing 1 dot and 1 dot respectively. Below them is a large empty box, a smaller empty box, and a larger empty box for the result.

Two boxes containing 2 dots and 1 dot respectively. Below them is a large empty box, a smaller empty box, and a larger empty box for the result.

Two boxes containing 2 dots and 2 dots respectively. Below them is a large empty box, a smaller empty box, and a larger empty box for the result.

$2 + 2$

 $=$

$1 + 2$

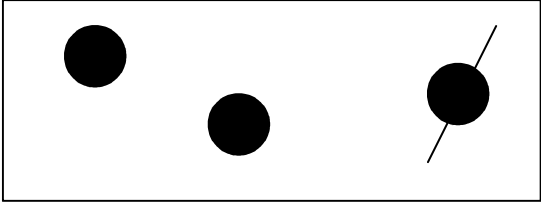
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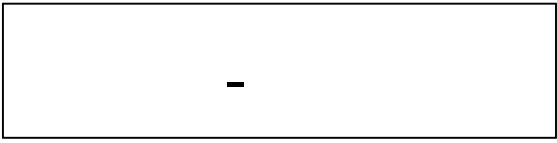
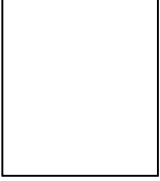
$3 + 1$

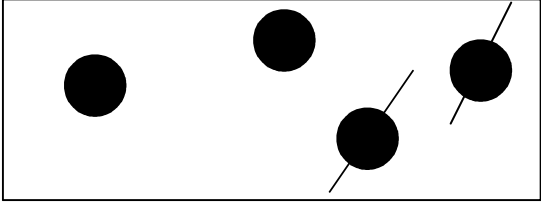
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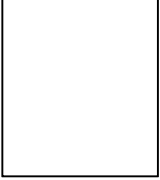
$2 + 0$

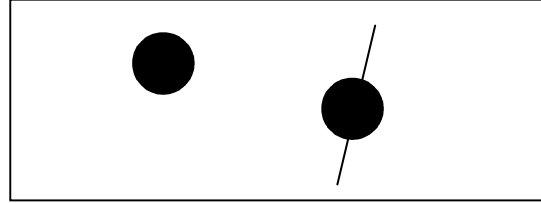
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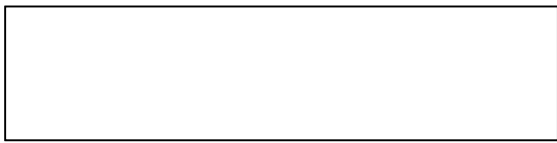
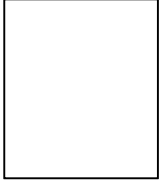


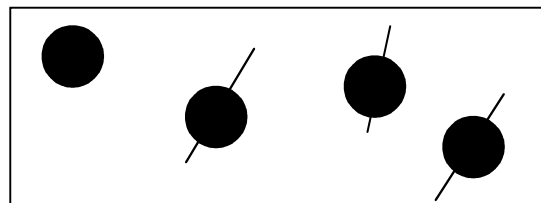

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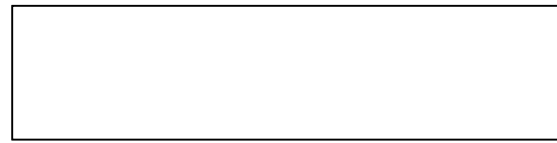




 = 




 = 




 = 

$3 - 2$

$4 - 1$

$3 - 1$

$2 - 2$

$2 + 1 =$

$4 - 1 =$

$0 + 2 =$

$3 - 0 =$

$3 + 1 =$

$2 - 2 =$

$1 + 1 =$

$4 - 3 =$

$3 + 0 =$

$4 - 2 =$

<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $3 - 0 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>	<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $3 + 1 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>
<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $4 - 1 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>	<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $0 + 2 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>
<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $3 + 0 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>	<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $3 - 2 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>
<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $2 - 2 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>	<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $2 + 1 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>
<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $1 + 1 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>	<div style="border: 1px solid black; width: 150px; height: 40px; margin-bottom: 10px;"></div> $4 - 2 =$ <input style="width: 40px; height: 25px; margin-left: 100px;" type="text"/>

$5 + 1 =$

$7 - 3 =$

$6 + 2 =$

$5 - 3 =$

$5 + 2 =$

$6 - 4 =$

$3 + 3 =$

$4 - 3 =$

$2 + 4 =$

$6 - 2 =$

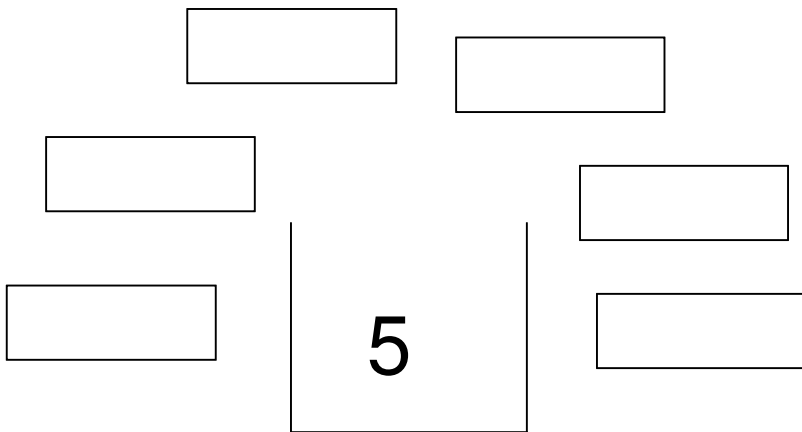
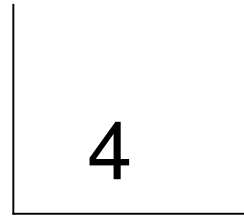
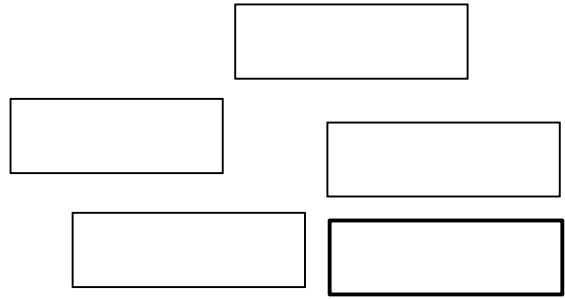
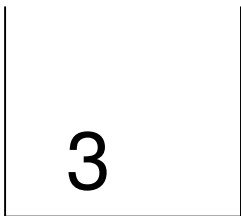
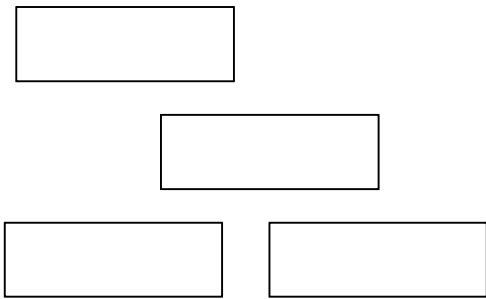
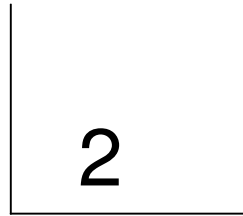
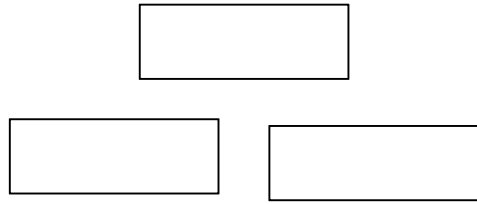
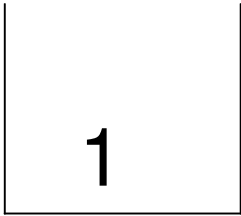
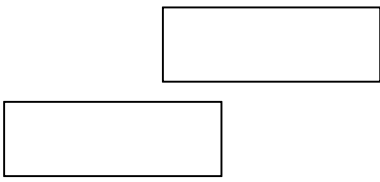
1

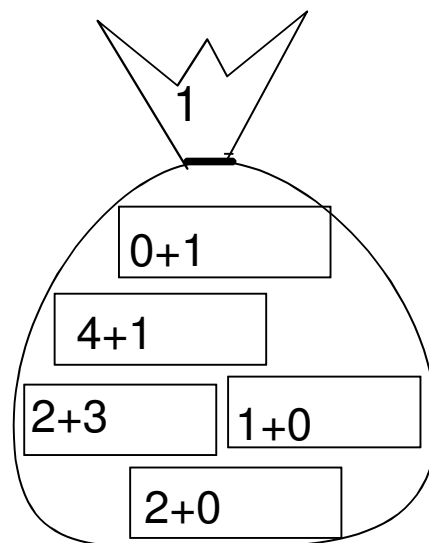
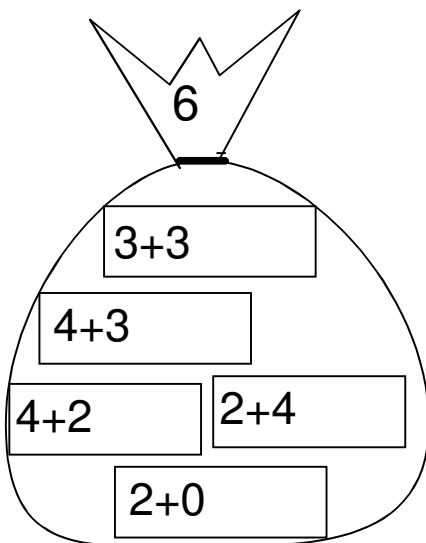
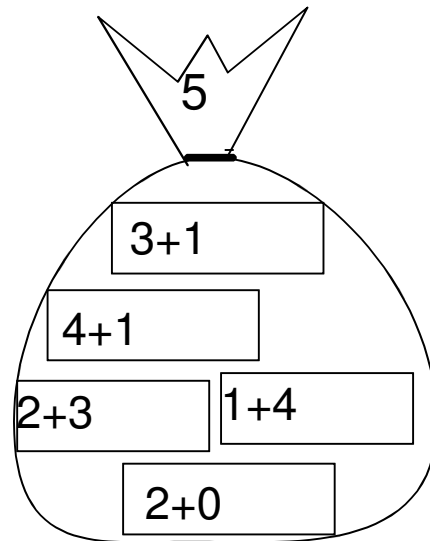
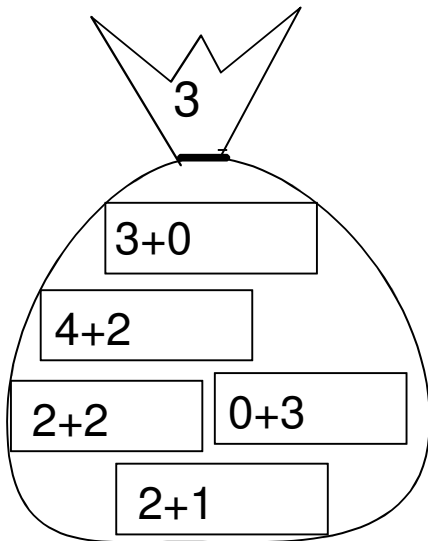
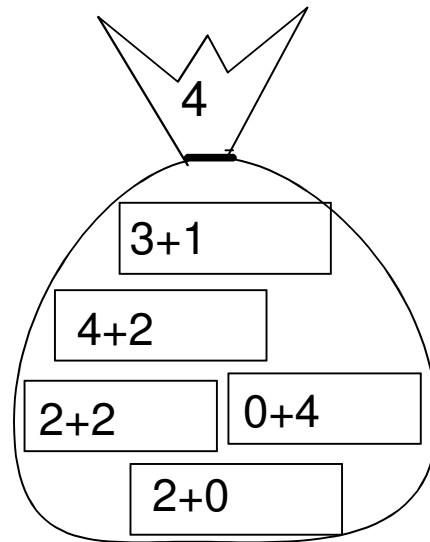
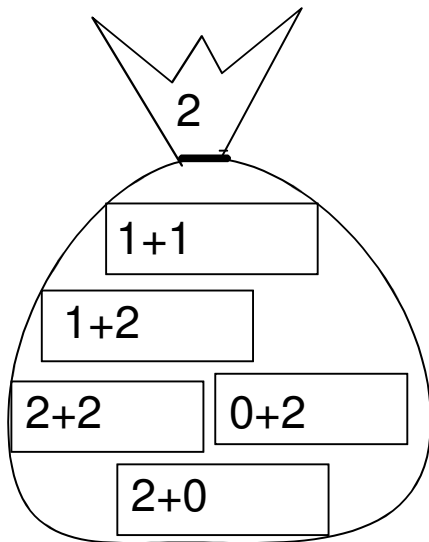
2

3

4

5





$1 + 0 =$

$2 + 0 =$

$3 + 0 =$

$4 + 0 =$

$5 + 0 =$

$6 + 0 =$

$0 + 1 =$

$0 + 2 =$

$0 + 3 =$

$0 + 4 =$

$0 + 5 =$

$0 + 6 =$

$0 + 1 =$

$1 + 1 =$

$2 + 1 =$

$3 + 1 =$

$4 + 1 =$

$5 + 1 =$

$1 + 0 =$

$1 + 1 =$

$1 + 2 =$

$1 + 3 =$

$1 + 4 =$

$1 + 5 =$

$0 + 0 =$

$1 + 1 =$

$2 + 2 =$

$3 + 3 =$

$4 + 2 =$

$2 + 4 =$

$3 + 2 =$

$2 + 3 =$

Tauschaufgaben

Bei Plusaufgaben können wir tauschen:

$$\boxed{3 + 4} = \boxed{4 + 3} = \boxed{7}$$

$$\boxed{2 + 3} = \boxed{\quad + \quad} = \boxed{\quad}$$

$$\boxed{4 + 2} = \boxed{\quad + \quad} = \boxed{\quad}$$

$$\boxed{3 + 3} = \boxed{\quad + \quad} = \boxed{\quad}$$

$$\boxed{2 + 5} = \boxed{\quad + \quad} = \boxed{\quad}$$

$$\boxed{6 + 1} = \boxed{\quad + \quad} = \boxed{\quad}$$

$$\boxed{3 + 1} = \boxed{\quad} = \boxed{\quad}$$

$$\boxed{4 + 0} = \boxed{\quad} = \boxed{\quad}$$

$$\boxed{1 + 4} = \boxed{\quad} = \boxed{\quad}$$

$2 + 4 =$ rot

$0 + 2 =$ gelb

$3 + 2 =$ blau

$1 + 3 =$ grün

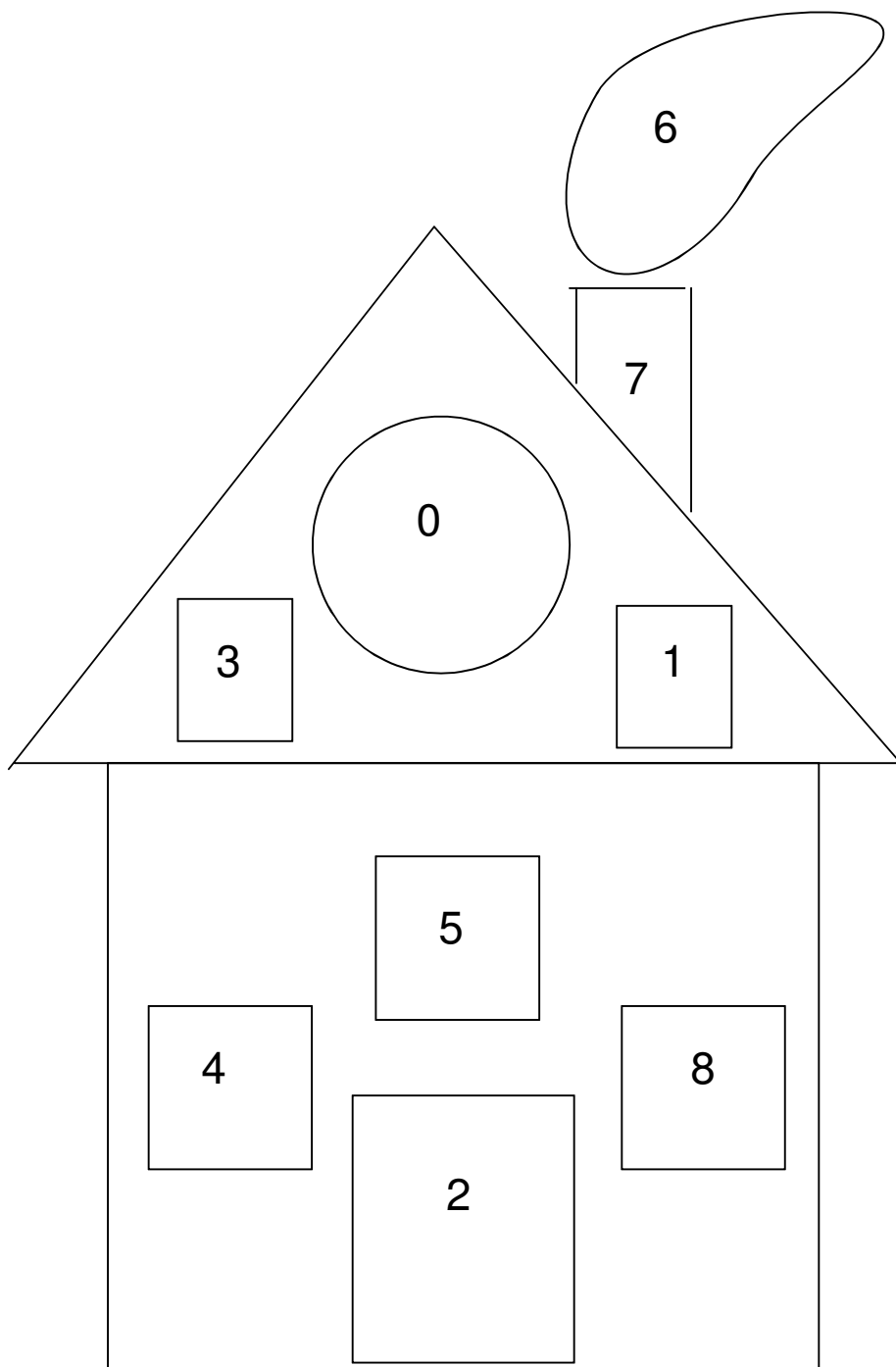
$0 + 0 =$ gelb

$1 + 2 =$ rot

$4 + 3 =$ blau

$2 + 6 =$ grün

$0 + 1 =$ rot



$1 + 5 =$
rot

$2 + 2 =$
grün

$2 + 5 =$
blau

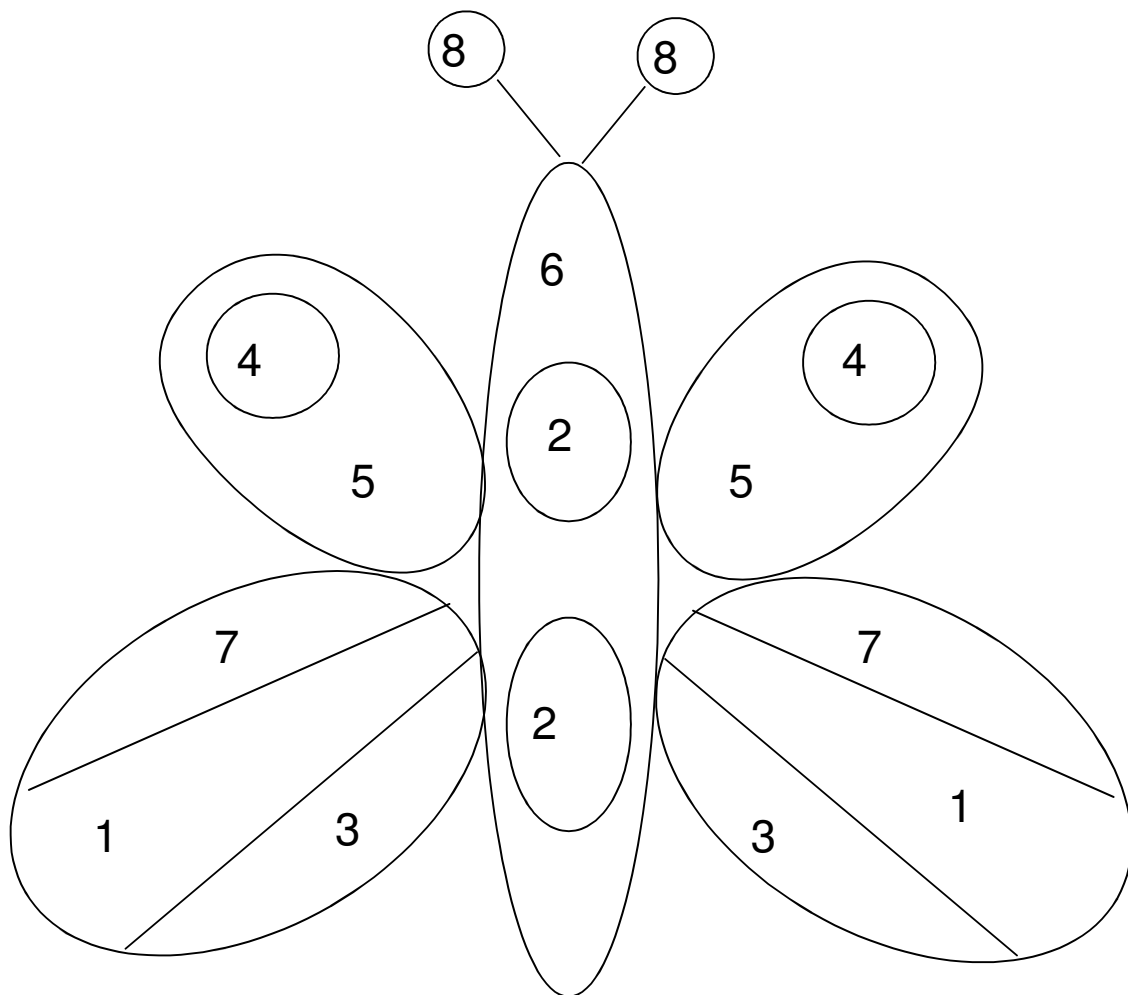
$3 + 5 =$
schwarz

$5 + 0 =$
lila

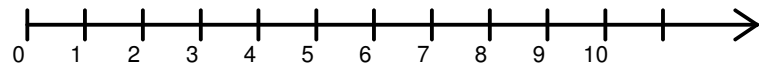
$2 + 1 =$
rot

$1 + 0 =$
gelb

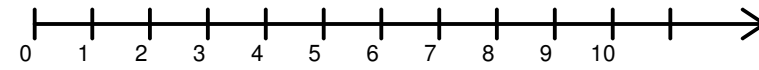
$0 + 2 =$
blau



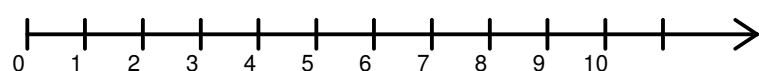
$2 + 4 =$



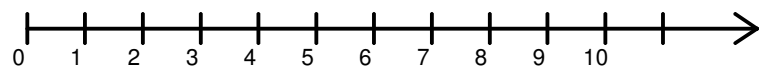
$2 + 2 =$



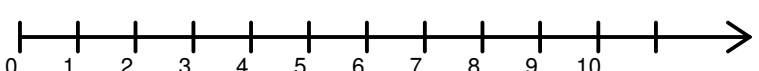
$5 + 5 =$



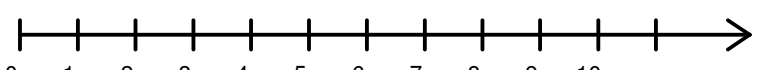
$6 + 3 =$



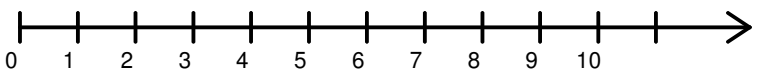
$0 + 4 =$



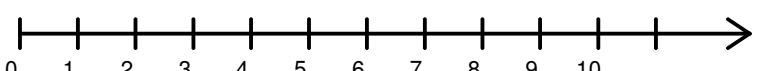
$2 + 5 =$



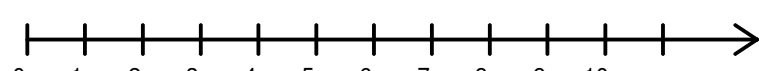
$5 + 3 =$



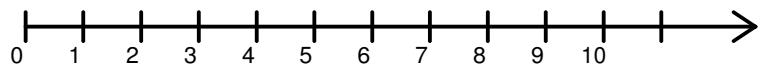
$3 + 4 =$



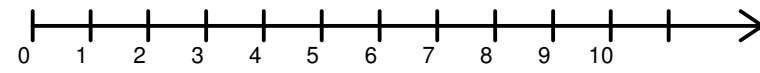
$0 + 6 =$



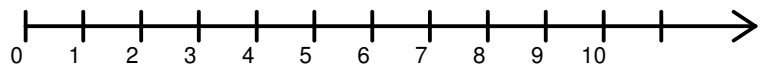
$7 - 4 =$



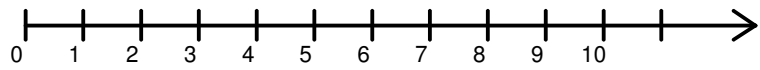
$5 - 2 =$



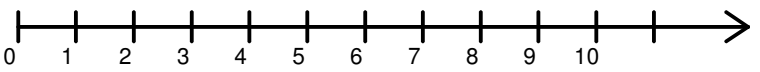
$9 - 5 =$



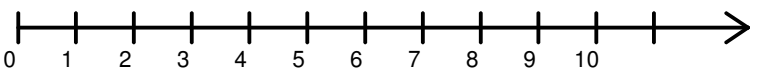
$6 - 3 =$



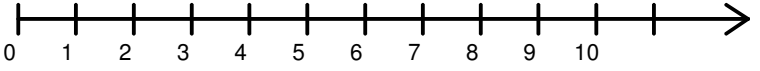
$9 - 4 =$



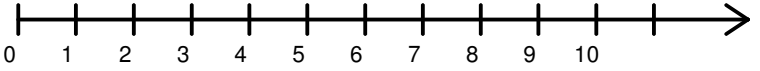
$5 - 3 =$



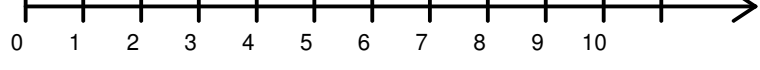
$6 - 5 =$



$8 - 3 =$



$9 - 2 =$



$$2 + 1 + 4 = \bigcirc$$

$$3 + 2 + 2 = \bigcirc$$

$$7 + 1 + 1 = \bigcirc$$

$$5 + 2 + 1 = \bigcirc$$

$$3 + 3 + 0 =$$

$$5 + 2 + 1 =$$

$$4 + 1 + 1 =$$

$$2 + 1 + 3 =$$

$$1 + 4 + 0 =$$

$$0 + 2 + 3 =$$

$$4 + 1 + 3 =$$

$$1 + 3 + 3 =$$

$$8 - 1 - 4 = \bigcirc$$

$$6 - 2 - 2 = \bigcirc$$

$$7 - 1 - 1 = \bigcirc$$

$$5 - 2 - 3 = \bigcirc$$

$$7 - 3 - 0 =$$

$$9 - 2 - 3 =$$

$$5 - 1 - 1 =$$

$$8 - 1 - 3 =$$

$$7 - 3 - 2 =$$

$$6 - 2 - 3 =$$

$$5 - 3 - 2 =$$

$$8 - 4 - 3 =$$

Hier stimmt was nicht!

- a) Schreibe ein Häkchen, wenn die Aufgabe richtig ist!
Male einen roten Punkt, wenn die Aufgabe falsch ist!

$1 + 4 = 2$
$3 + 2 = 5$
$1 + 2 = 3$
$6 + 1 = 8$
$3 + 3 = 6$
$6 + 2 = 4$
$7 + 2 = 9$
$5 + 2 = 4$

$4 + 3 = 5$
$6 + 2 = 8$
$4 + 4 = 8$
$1 + 3 = 4$
$5 + 3 = 7$
$3 + 4 = 7$
$8 + 1 = 8$
$4 + 2 = 7$

- b) Acht Aufgaben sind falsch. Schreibe sie auf und löse sie!

Hier stimmt was nicht!

- a) Schreibe ein Häkchen, wenn die Aufgabe richtig ist!
Male einen roten Punkt, wenn die Aufgabe falsch ist!

$6 - 4 = 2$
$3 - 2 = 5$
$8 - 2 = 3$
$7 - 1 = 6$
$3 - 3 = 0$
$8 - 2 = 3$
$7 - 2 = 5$
$6 - 2 = 4$

$4 - 3 = 5$
$9 - 2 = 7$
$4 - 4 = 8$
$7 - 3 = 1$
$5 - 3 = 2$
$7 - 4 = 3$
$8 - 1 = 8$
$4 - 2 = 7$

- b) Acht Aufgaben sind falsch. Schreibe sie auf und löse sie!

gelb

blau

$0 + 10$

--	--	--	--	--	--	--	--	--	--

$1 + 9$

--	--	--	--	--	--	--	--	--	--

$2 + 8$

--	--	--	--	--	--	--	--	--	--

$3 + 7$

--	--	--	--	--	--	--	--	--	--

$4 + 6$

--	--	--	--	--	--	--	--	--	--

$5 + 5$

--	--	--	--	--	--	--	--	--	--

$6 + 4$

--	--	--	--	--	--	--	--	--	--

$7 + 3$

--	--	--	--	--	--	--	--	--	--

$8 + 2$


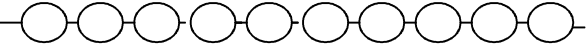


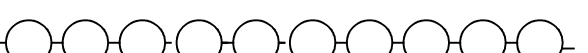
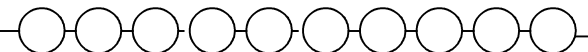

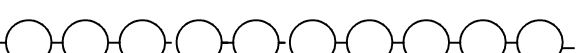

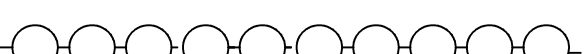

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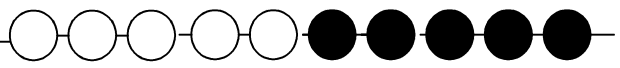






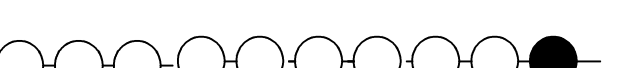
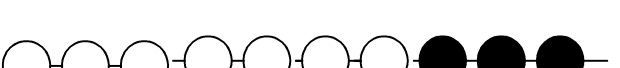
$9 + 1$

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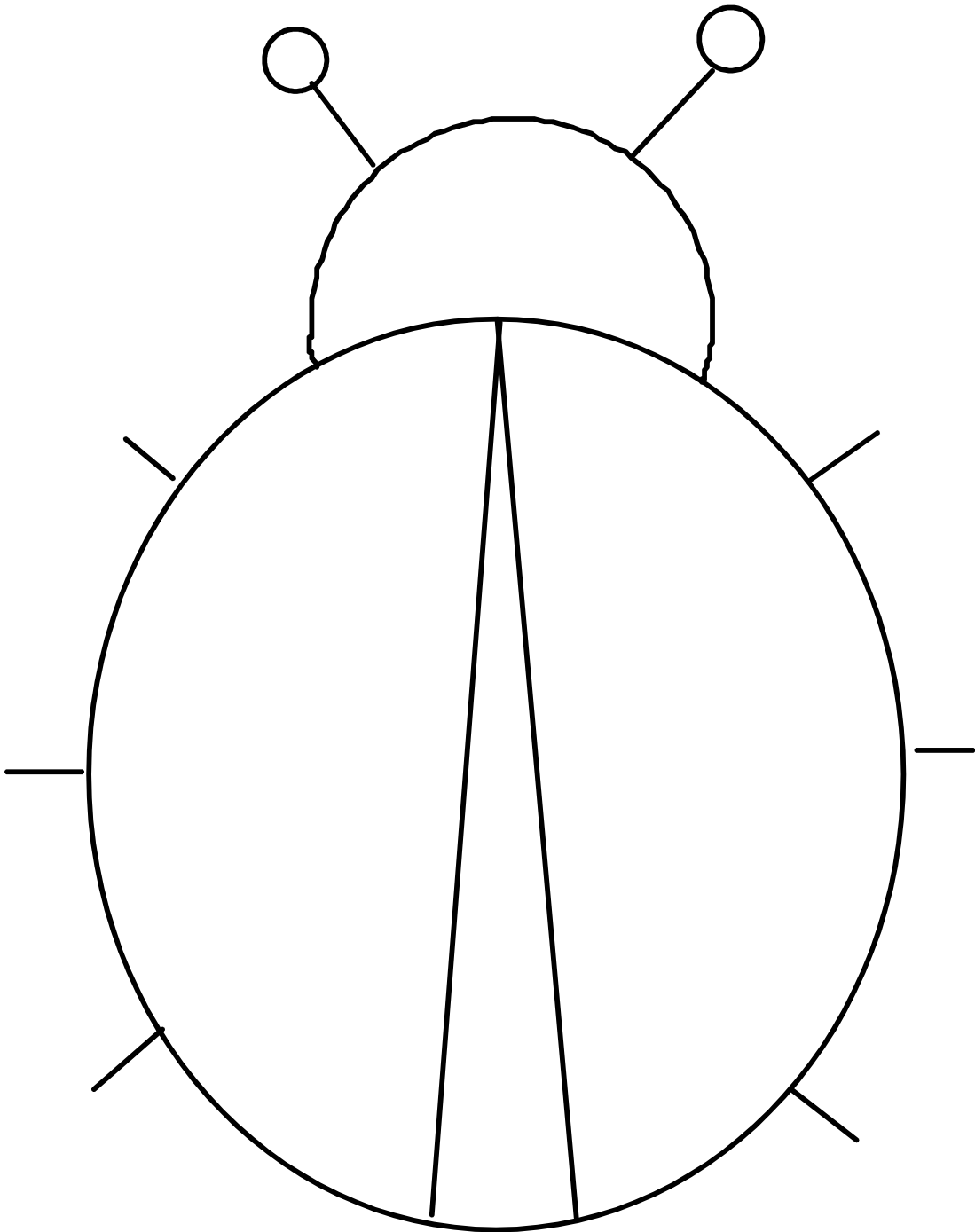
$10 + 0$

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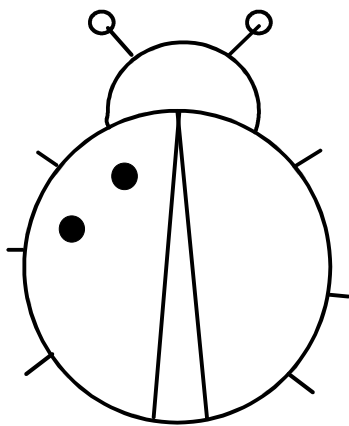
	gelb	blau	
	3	7	$3 + 7$
	5	5	
	1	9	
	2	8	
	6	4	
	8	2	
	10	0	
	4	6	
	7	3	
	9	1	
	0	10	

	$7 + 3$
	
	
	
	
	
	
	
	
	
	
	

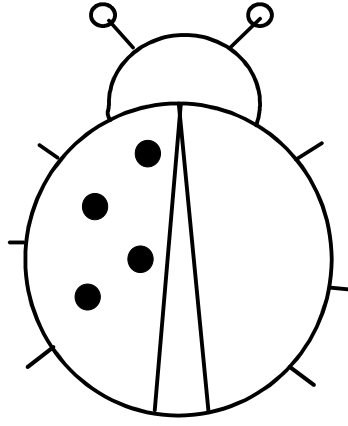
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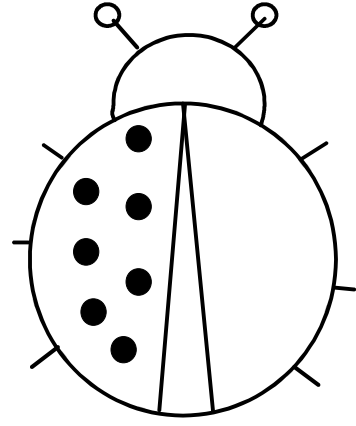
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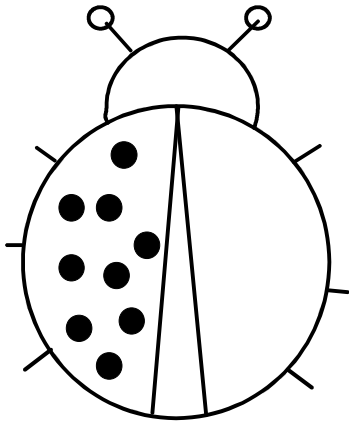
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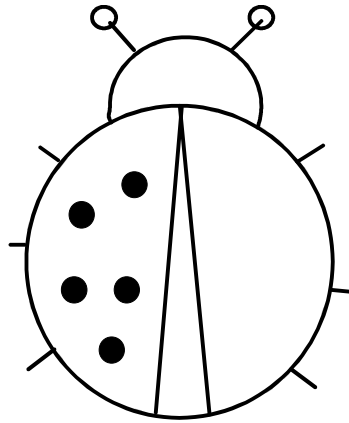
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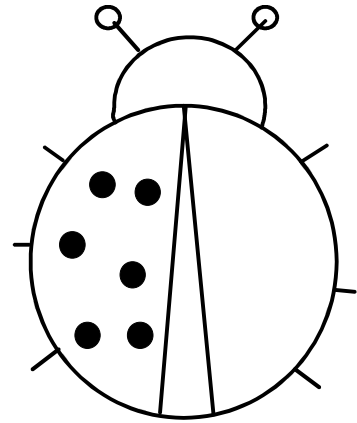
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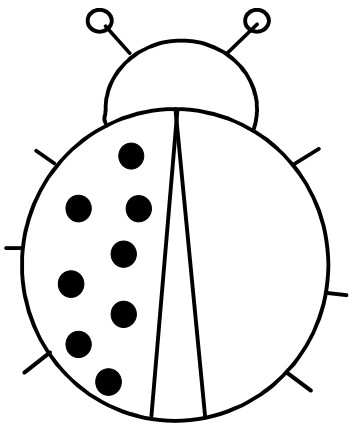
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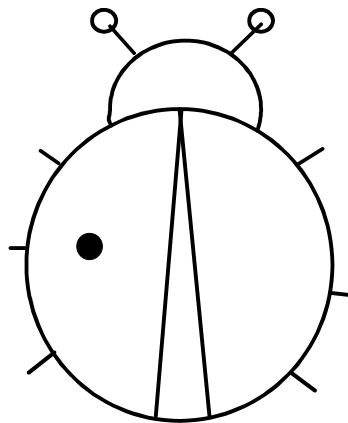
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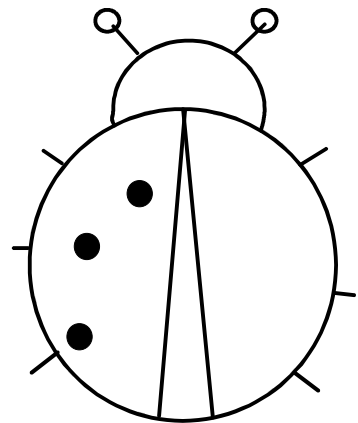
6 +



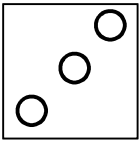
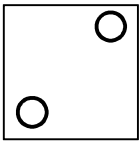
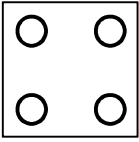
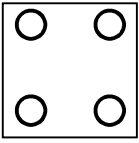
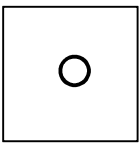
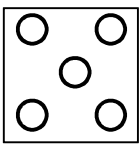
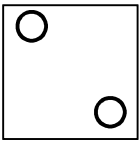
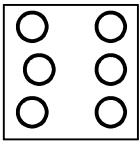
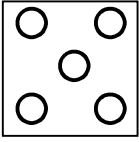
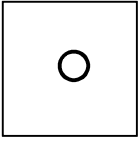
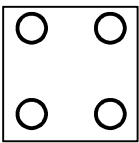
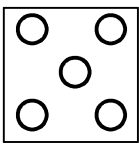
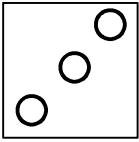
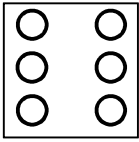
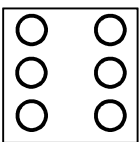
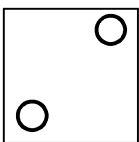
8 +



1 +



3 +

 + _____ = 10	 + _____ = 10
 + _____ = 10	 + _____ = 10
 + _____ = 10	 + _____ = 10
 + _____ = 10	 + _____ = 10
 + _____ = 10	 + _____ = 10
 + _____ = 10	 + _____ = 10
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$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
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$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$
$\square + \underline{\quad} = 10$	$\square + \underline{\quad} = 10$

3

7

$3 + 7 = 10$

4

10

5

6

2

1

0

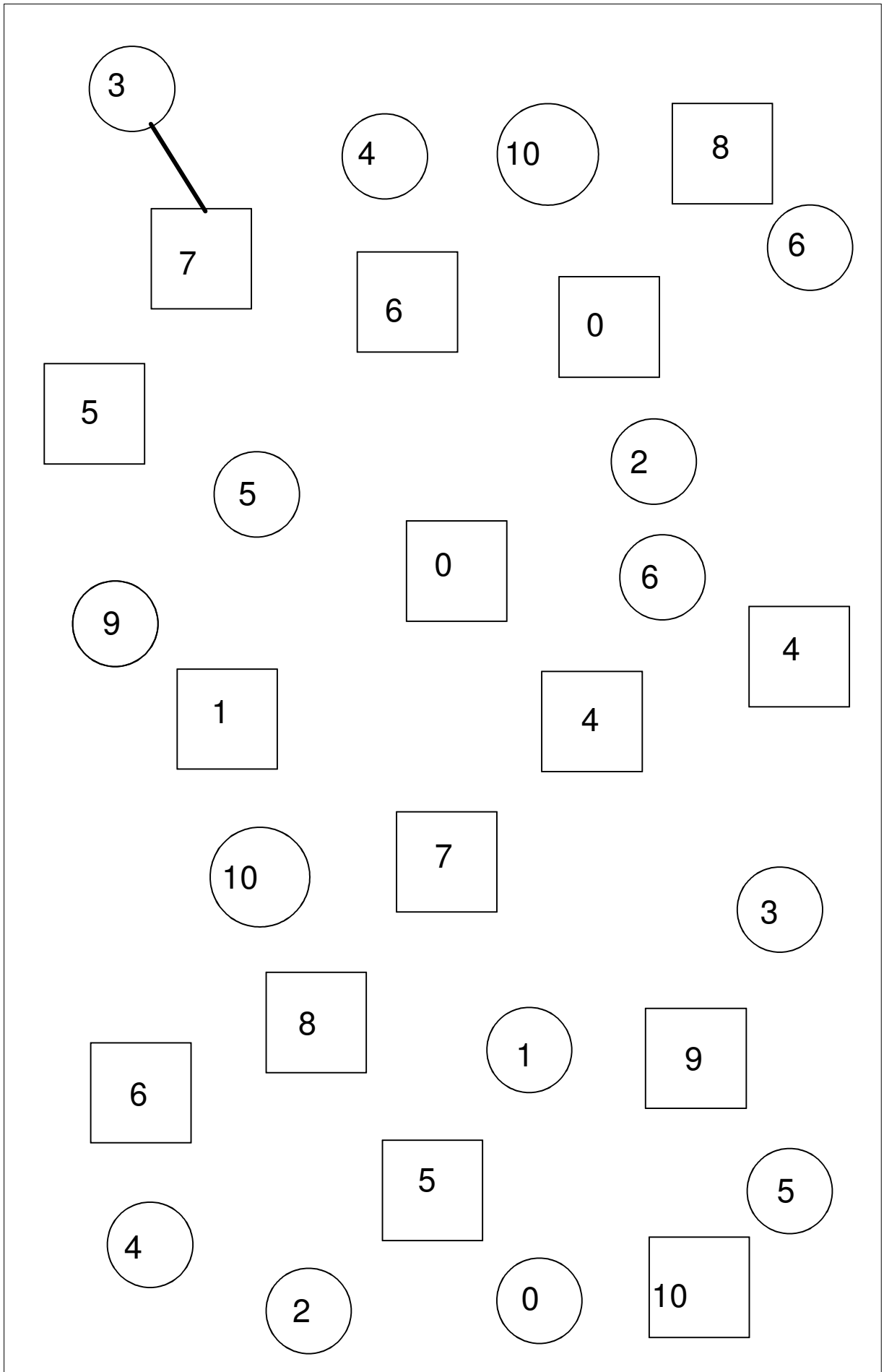
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7

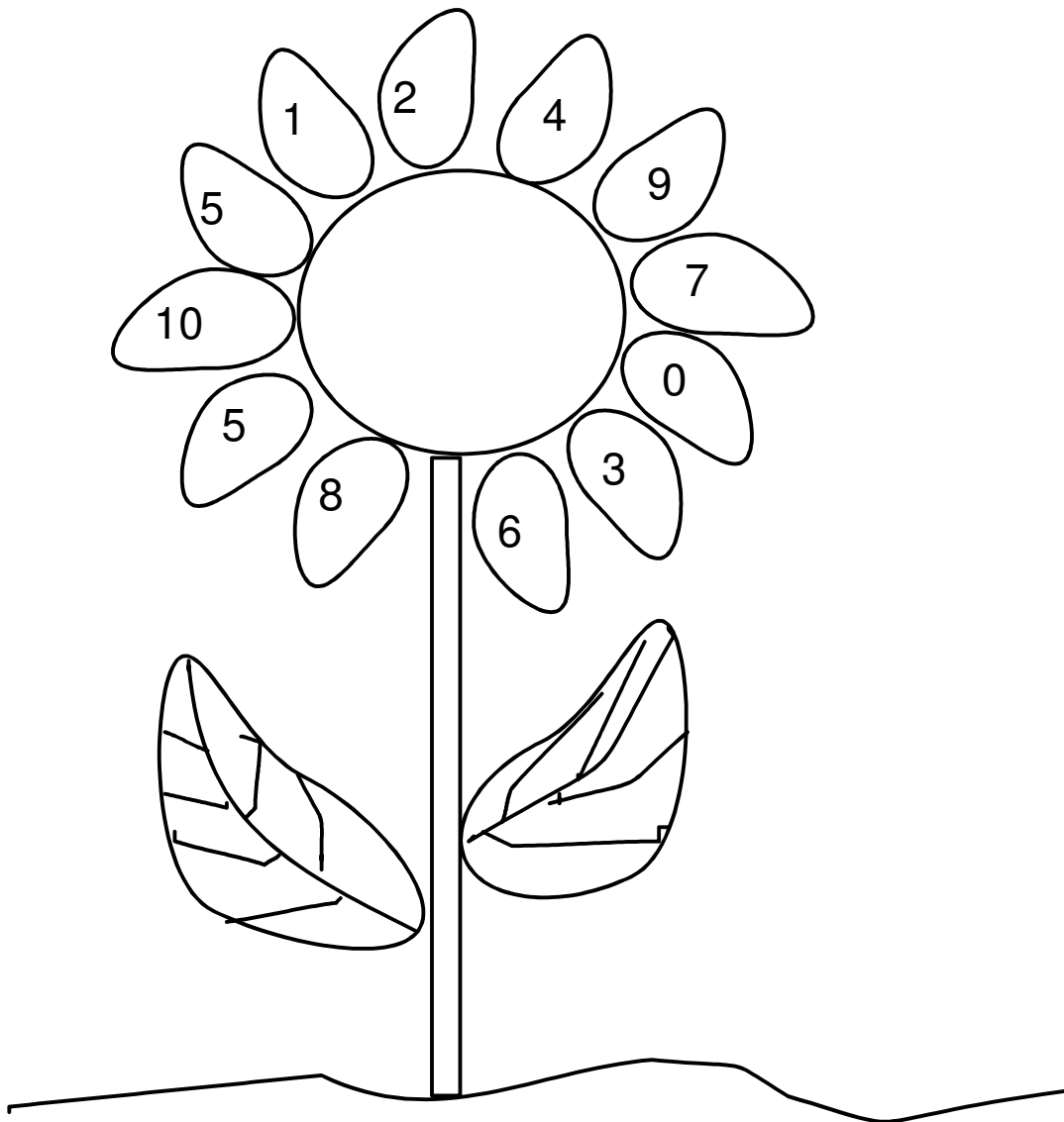
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8

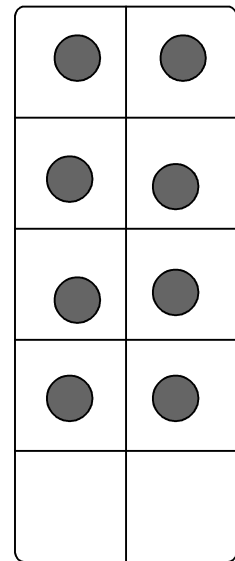
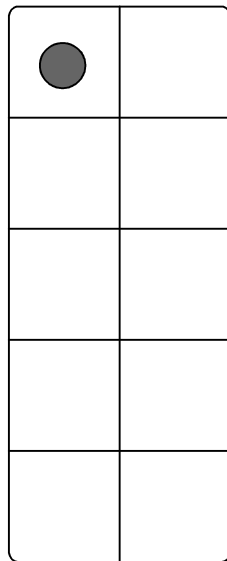
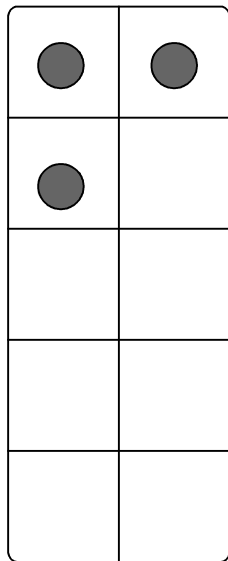
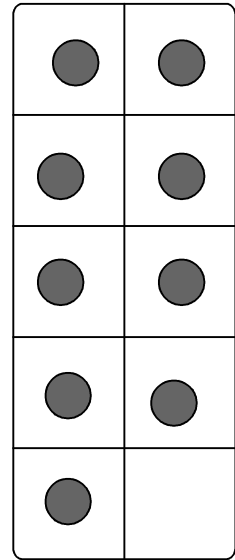
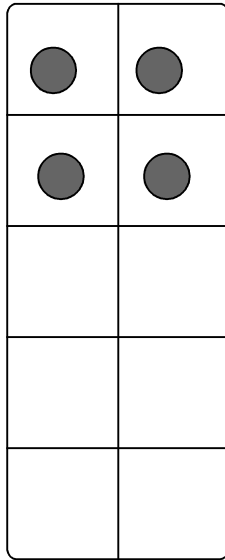
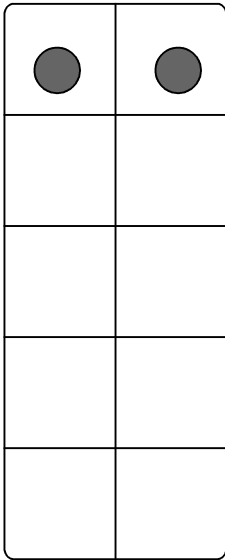
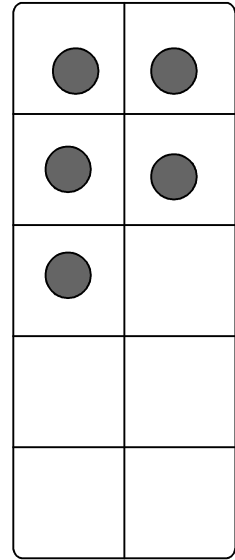
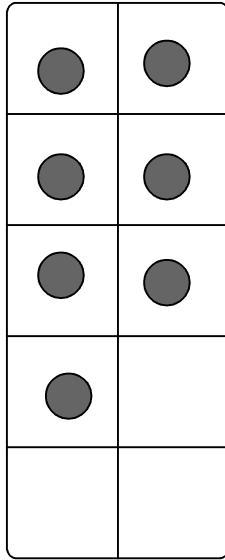
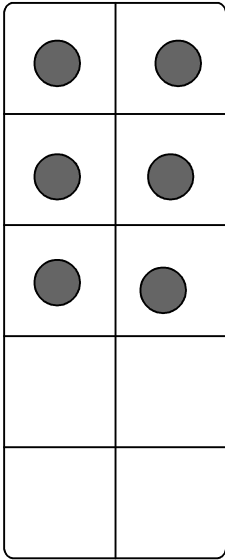
Schreibe die fehlende Zahl und die dazugehörige Aufgabe!

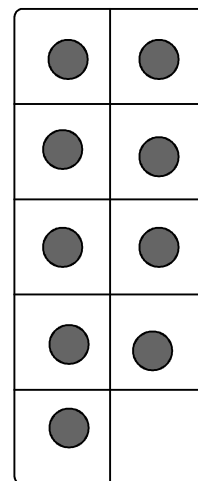
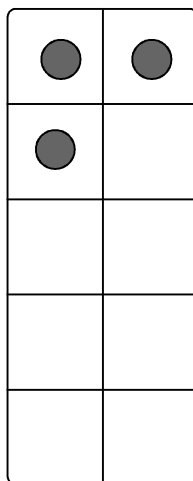
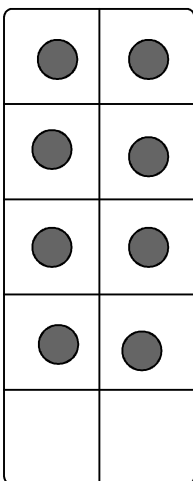
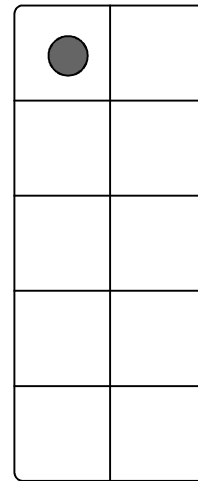
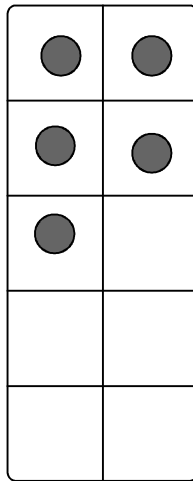
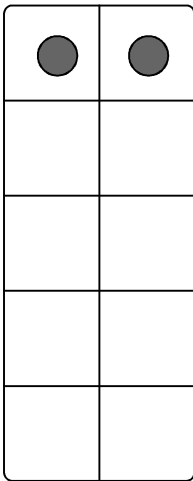
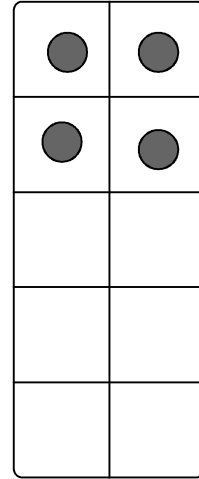
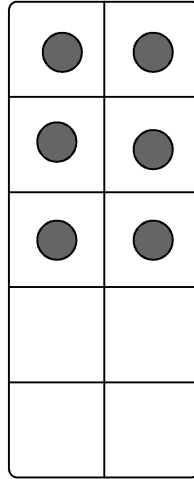
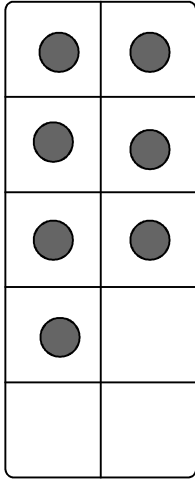


a) Male die Zahlenpärchen mit derselben Farbe aus!




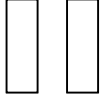
b) Schreibe die Aufgaben!

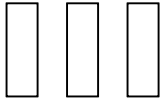


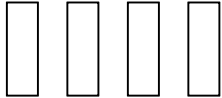



Z

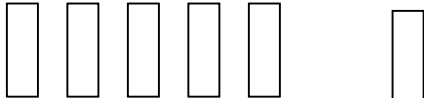
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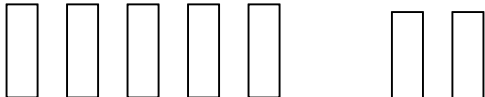
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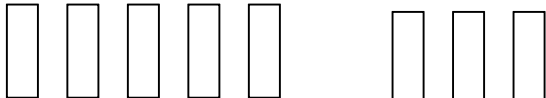
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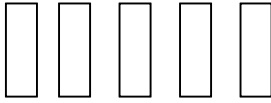
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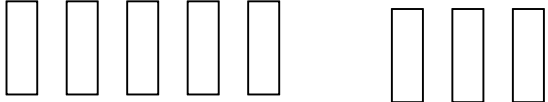
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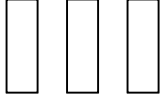
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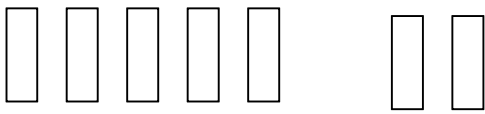
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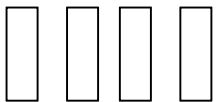
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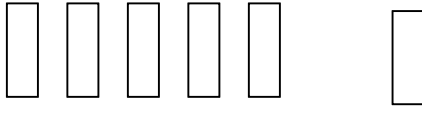
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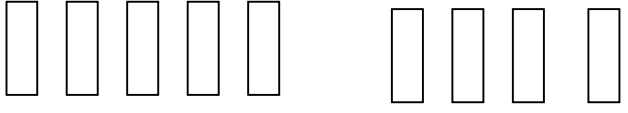
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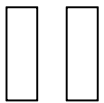
 = =

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Z

10 = =

20 = =

30 = =

40 = =

50 = =

60 = =

70 = =

80 = =

90 = =

Z

40 = =

60 = =

10 = =

80 = =

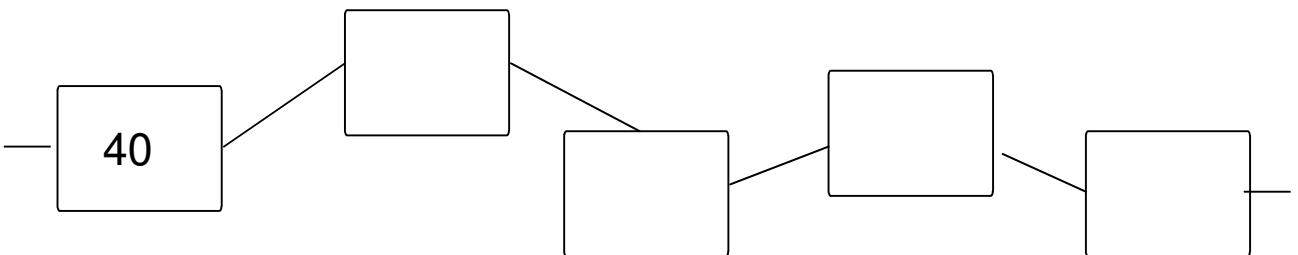
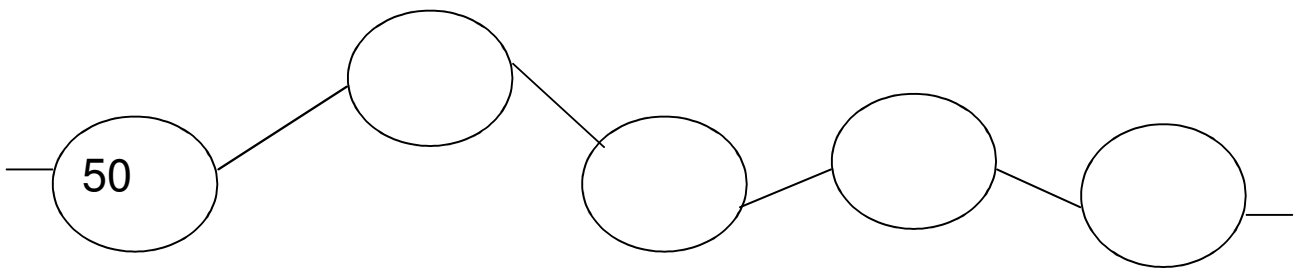
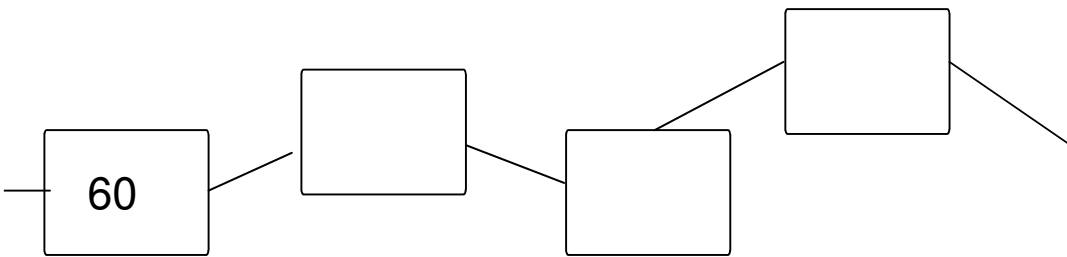
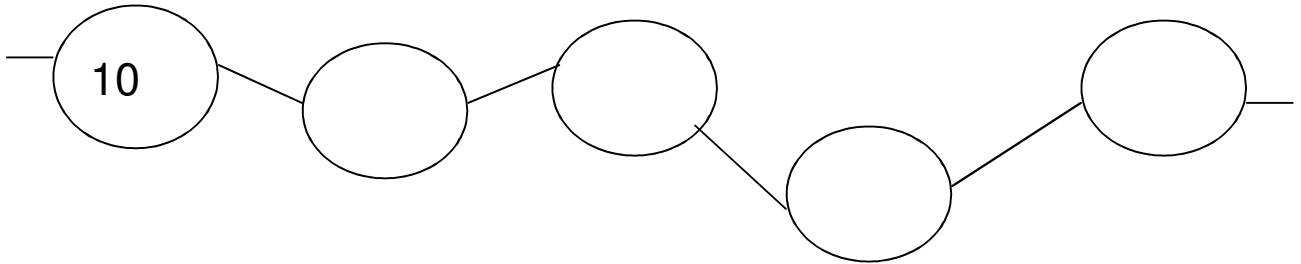
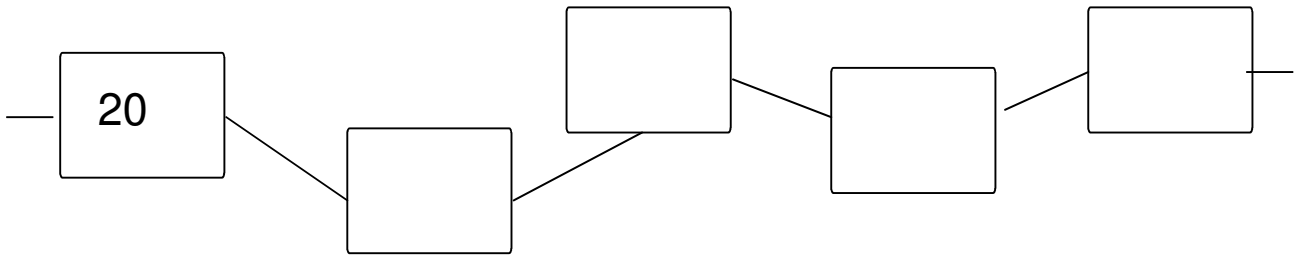
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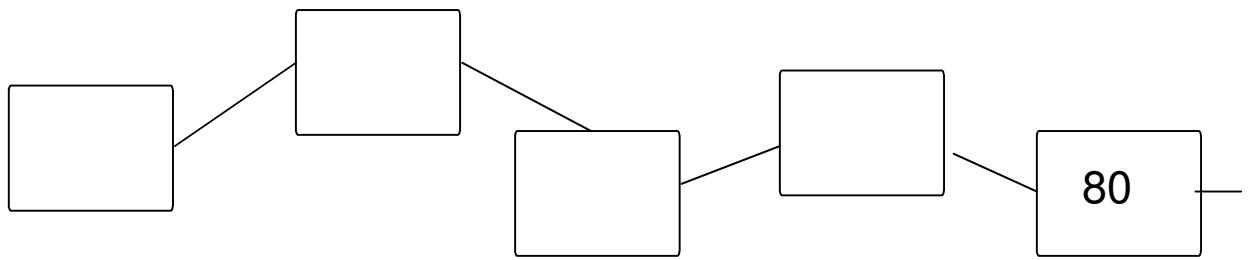
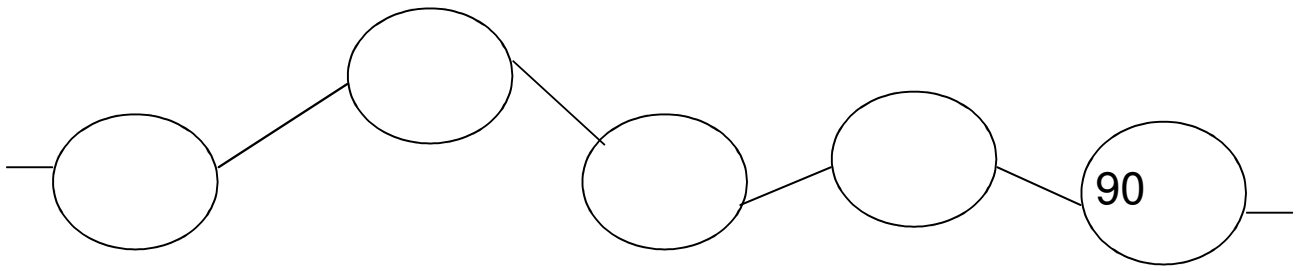
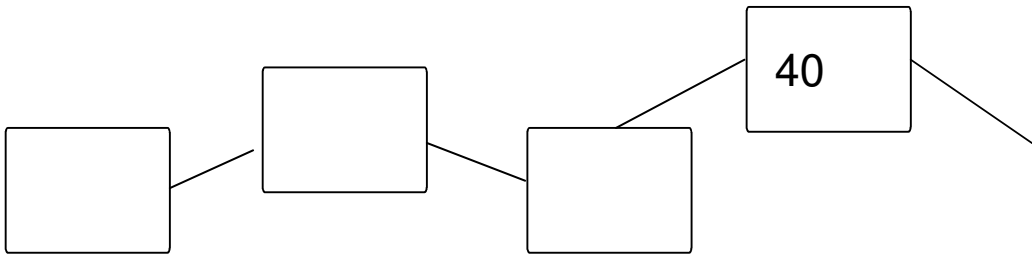
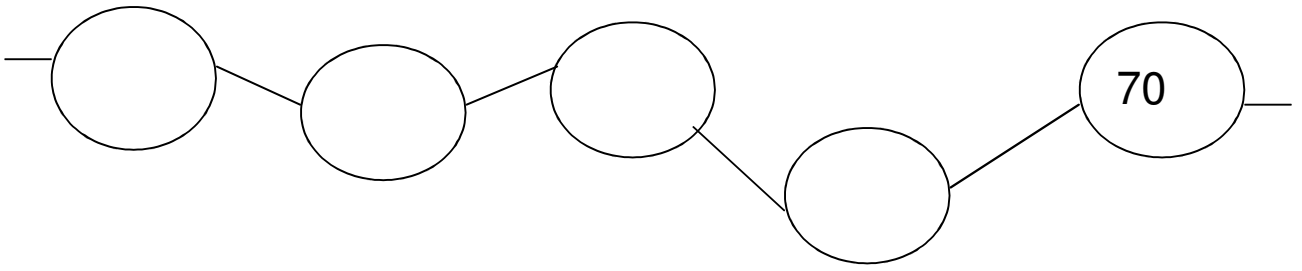
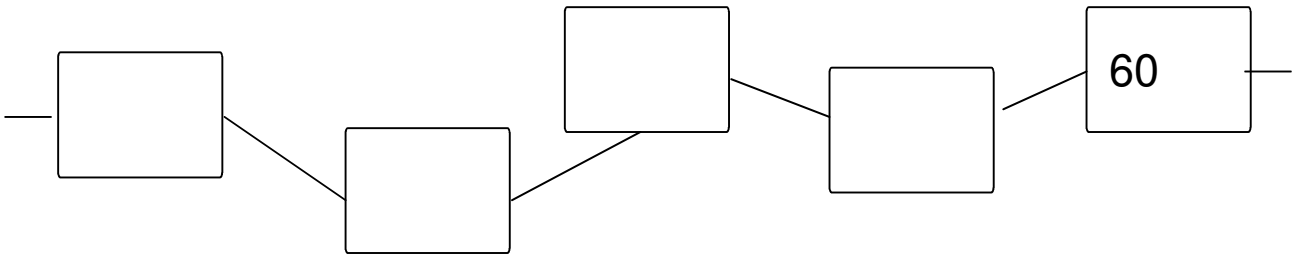
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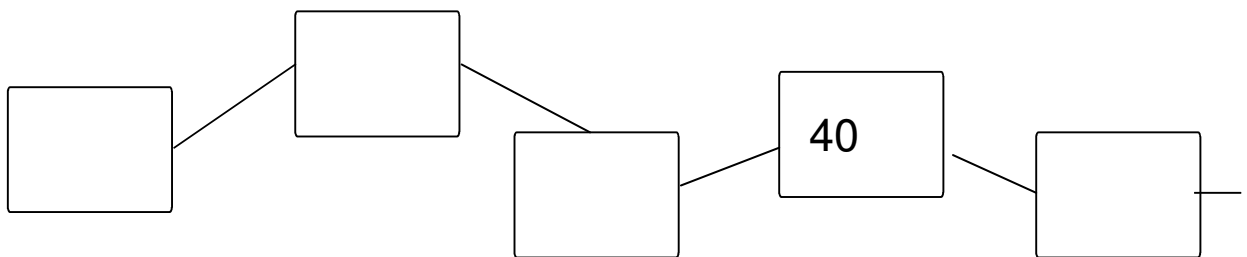
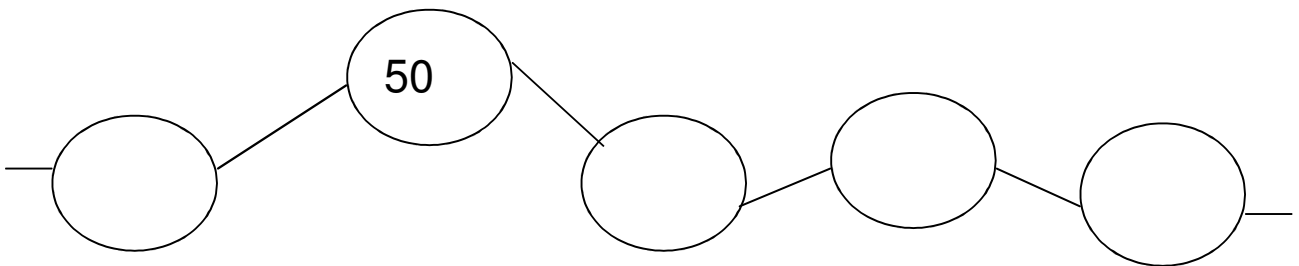
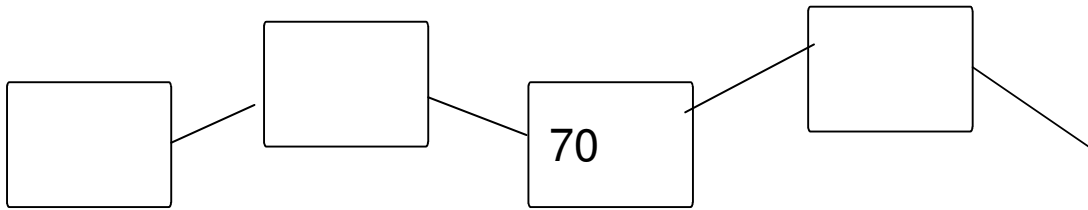
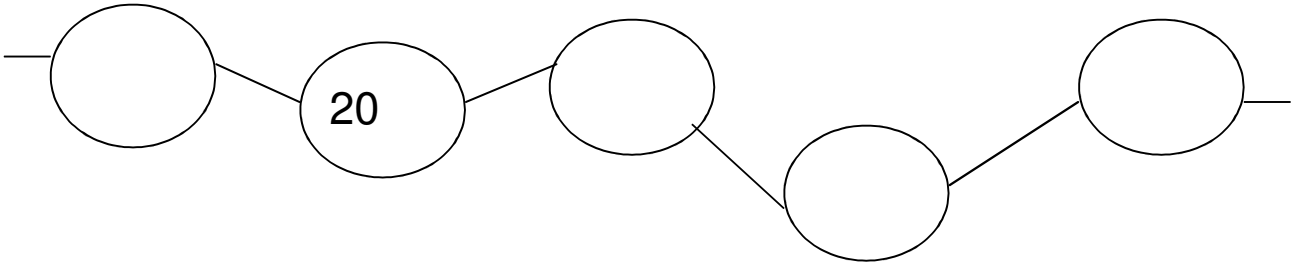
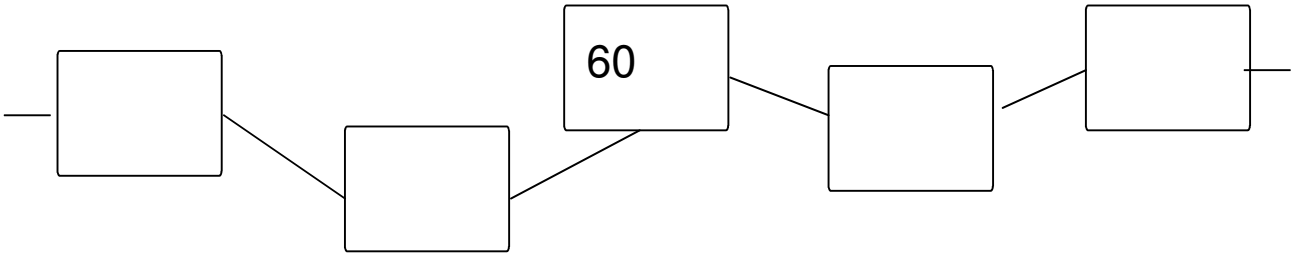
30 = =

20 = =

70 = =







$30+40=$

$10+60=$

$40+20=$

$30+50=$

$20+10=$

$20+50=$

$60+20=$

$50+10=$

$20+40=$

$70+10=$

$10+40=$

$60+30=$

Rechne!

$20 + 10 =$

$30 + 10 =$

$50 + 20 =$

$10 + 20 =$

$40 + 30 =$

$40 + 30 =$

$80 + 10 =$

$20 + 50 =$

$20 + 60 =$

$20 + 40 =$

Schreibe in dein Heft und rechne!

$30 + 40 =$

$60 + 10 =$

$80 + 10 =$

$20 + 70 =$

$40 + 40 =$

$10 + 40 =$

$10 + 10 =$

$70 + 10 =$

$20 + 60 =$

$20 + 50 =$

$70-40=$

$70-60=$

$60-20=$

$70-50=$

$90-10=$

$80-50=$

$60-30=$

$50-10=$

$90-40=$

$90-50=$

$80-40=$

$60-30=$

Rechne!

$20 - 10 =$

$30 - 10 =$

$50 - 20 =$

$60 - 20 =$

$40 - 10 =$

$40 - 40 =$

$80 - 20 =$

$90 - 30 =$

$70 - 60 =$

$50 - 40 =$

Schreibe in dein Heft und rechne!

$80 - 40 =$

$90 - 40 =$

$60 - 10 =$

$80 - 20 =$

$80 - 10 =$

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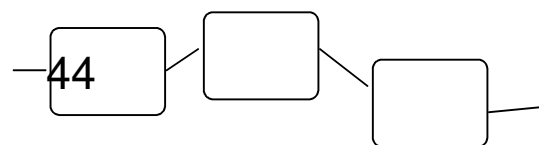
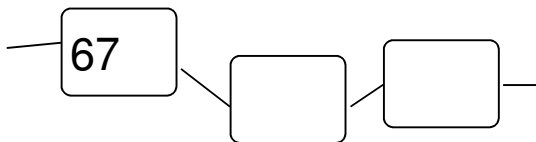
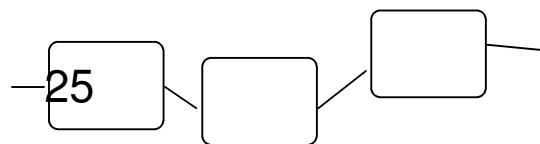
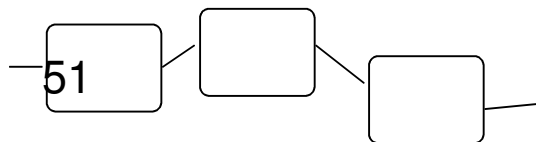
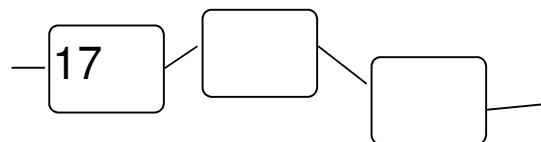
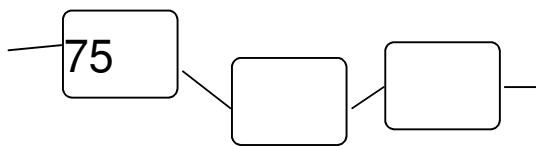
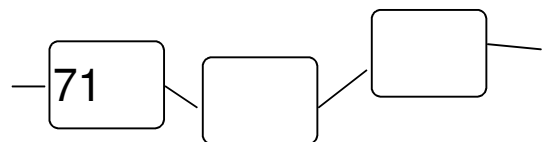
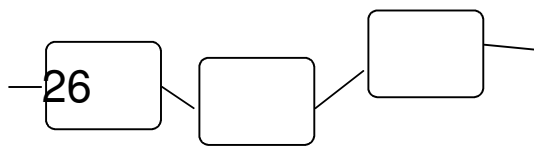
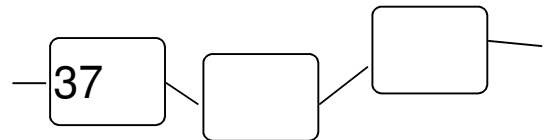
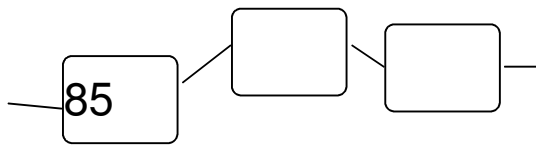
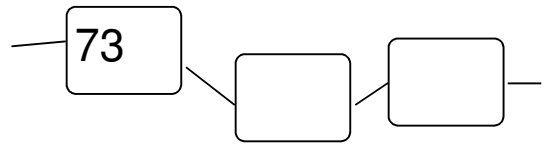
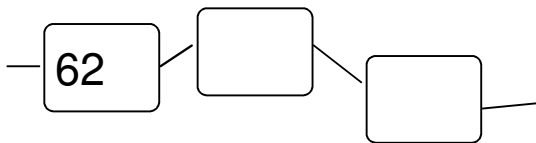
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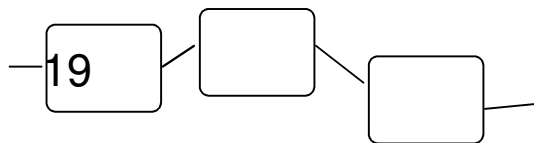
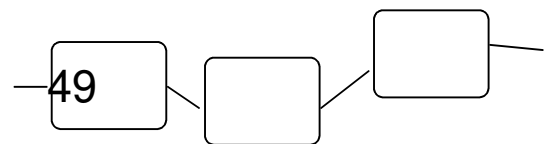
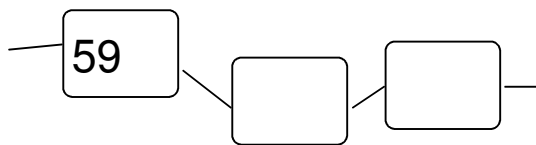
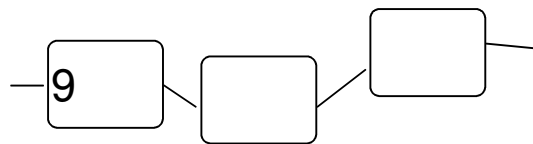
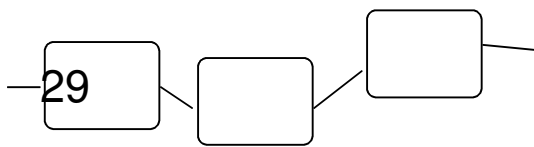
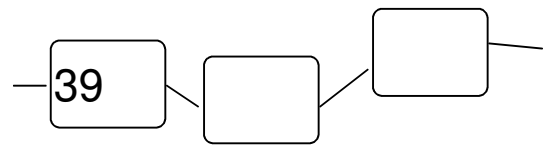
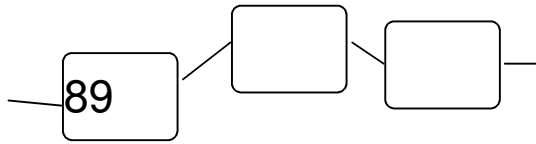
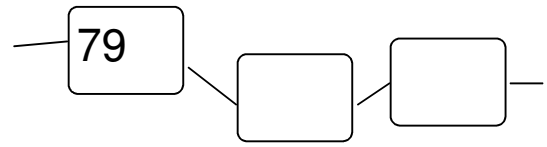
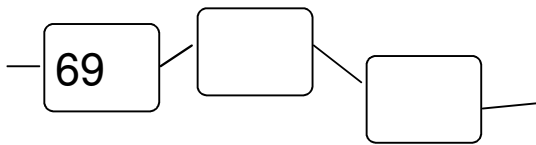
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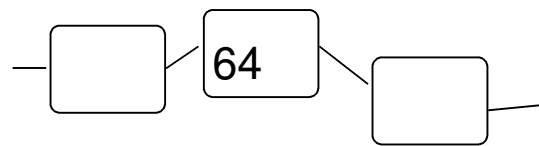
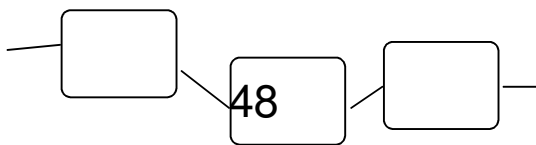
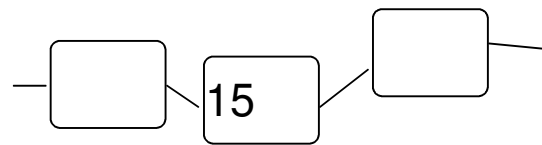
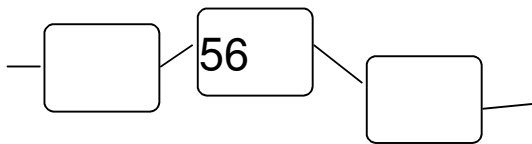
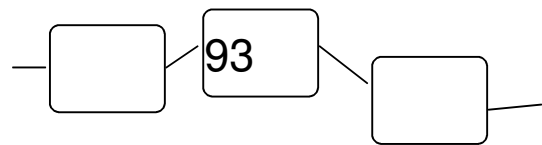
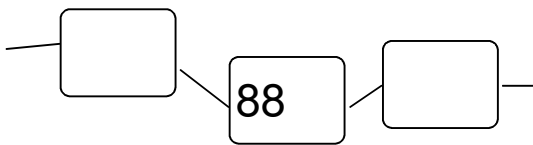
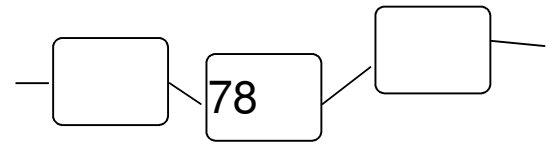
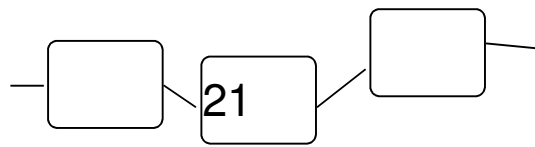
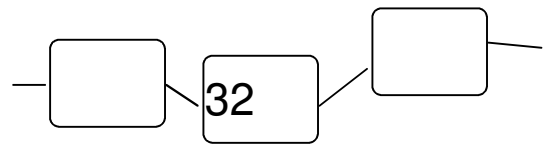
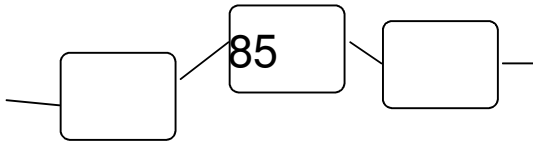
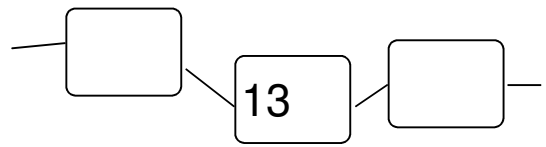
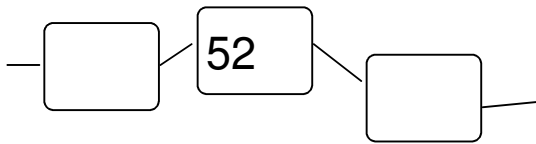
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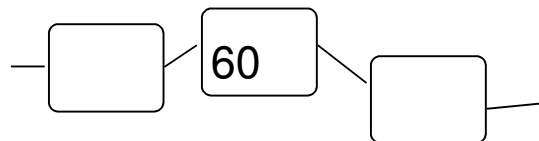
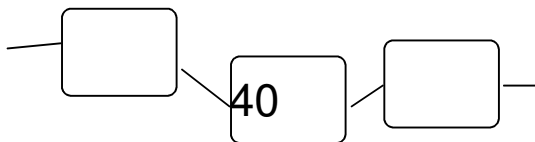
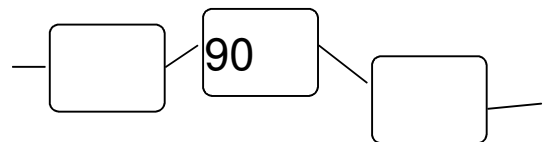
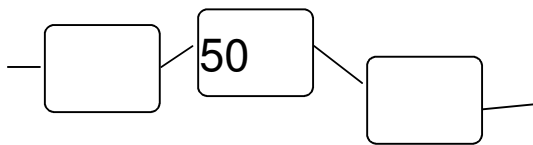
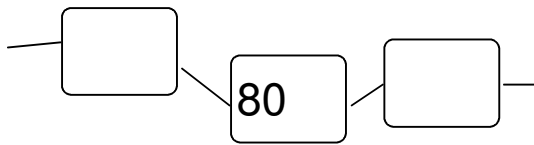
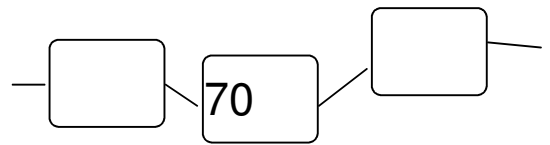
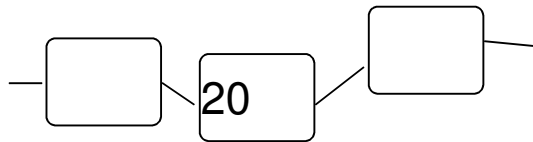
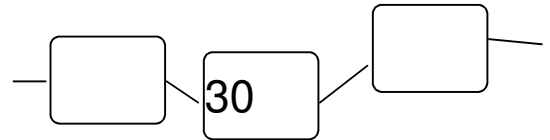
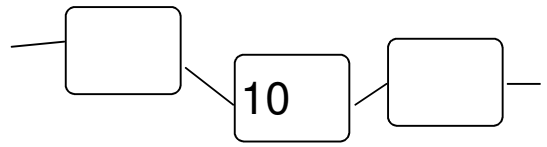
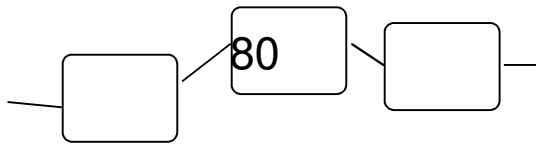
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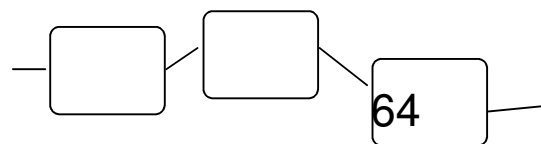
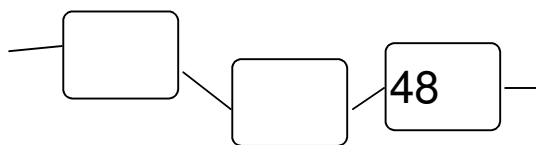
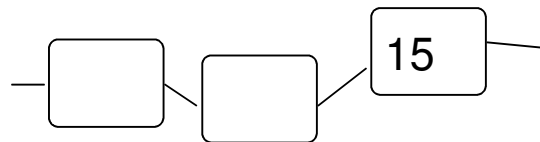
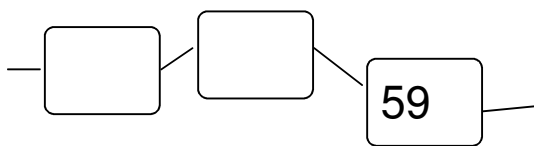
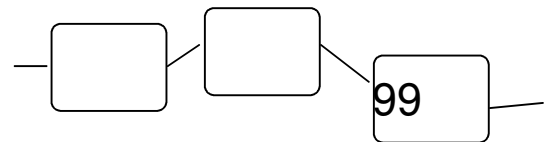
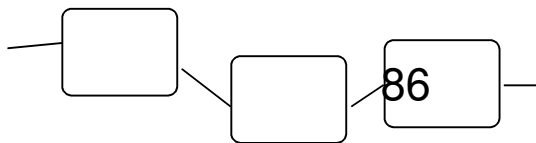
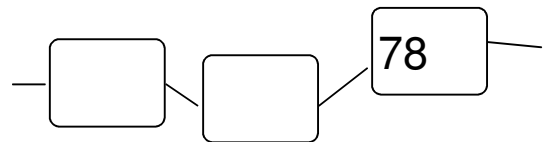
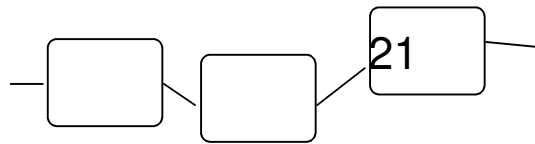
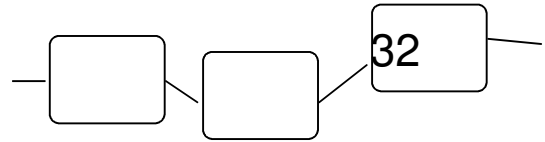
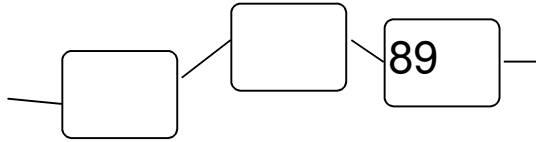
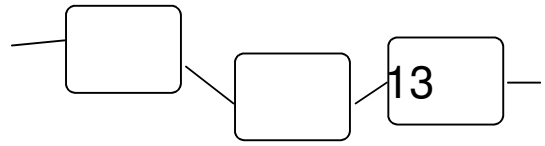
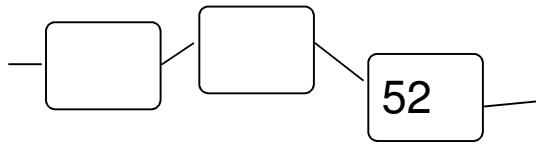
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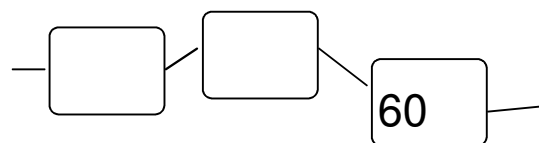
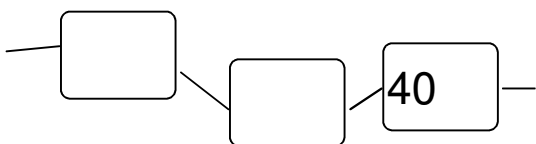
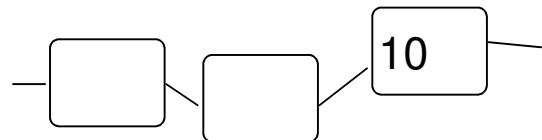
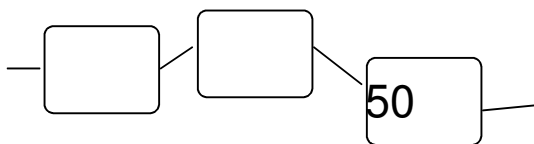
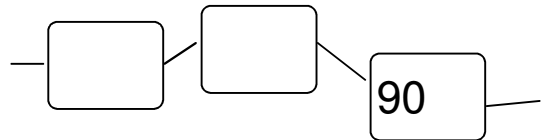
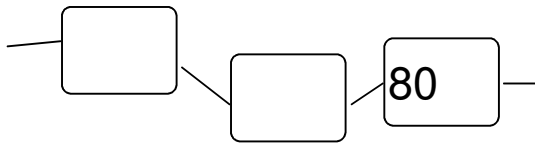
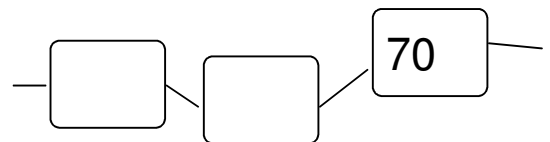
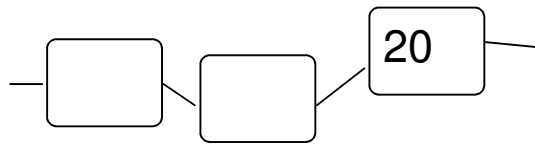
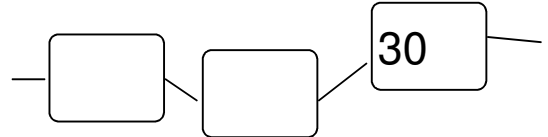
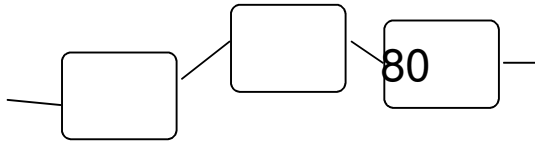
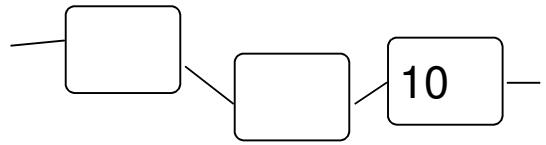
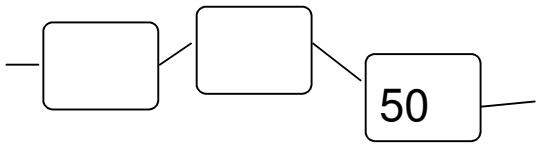














Mein

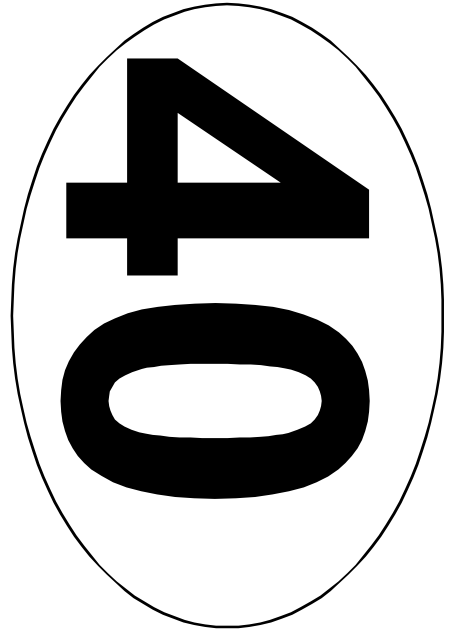
Zahlenbuch

bis

100



Name



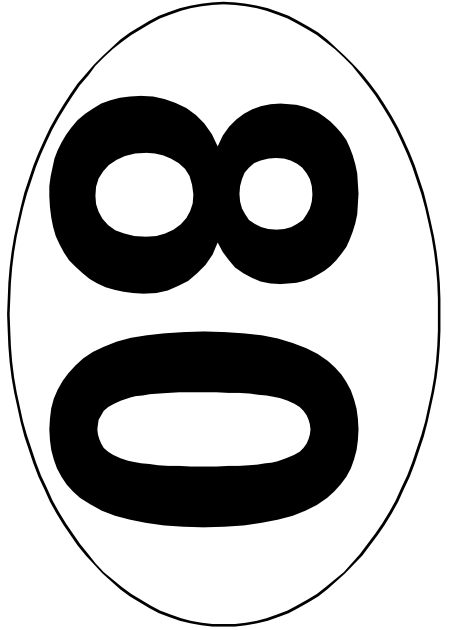
40	

Vier Zehner-Kartons blau anmalen, die Zahlen 40 bis 49 aufschreiben

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42	
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48	
49	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen

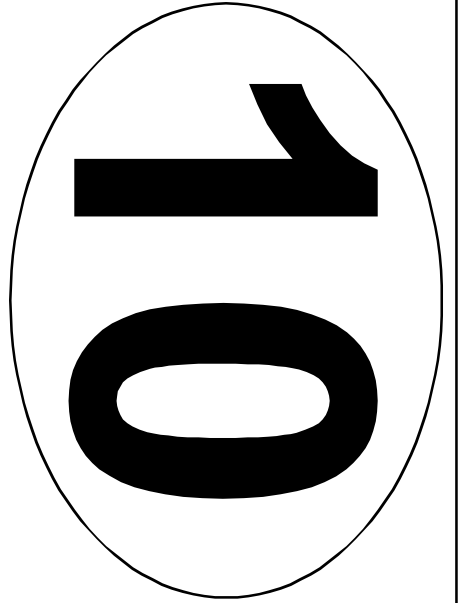


Acht Zehner-Kartons blau anmalen, die Zahlen 80 bis 89 aufschreiben

80	
81	
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86	
87	
88	
89	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen



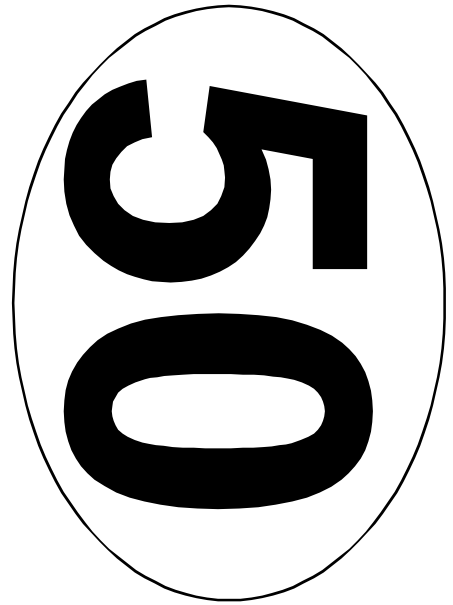
	10
	11

Ein Zehner-Karton blau anmalen, die Zahlen 10 bis 19 aufschreiben

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18	
19	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen



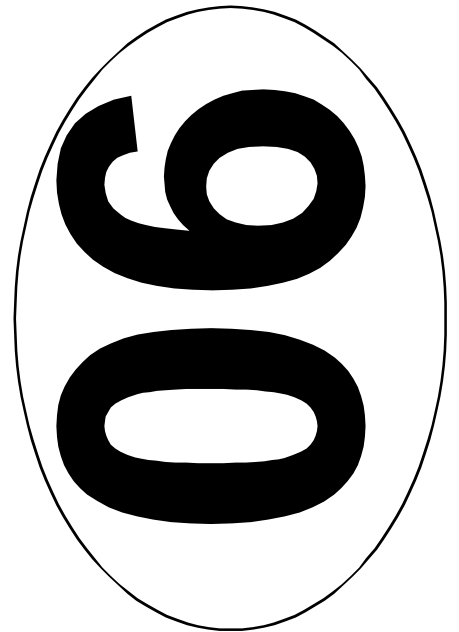
50

Fünf Zehner-Kartons blau anmalen, die Zahlen 50 bis 59 aufschreiben

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51	
52	
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56	
57	
58	
59	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen

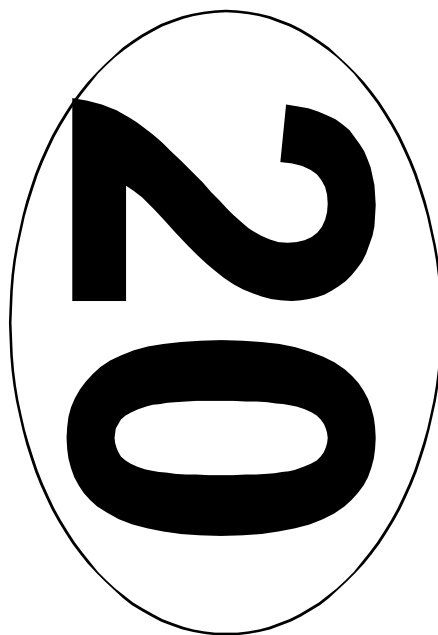


Neun Zehner-Kartons blau anmalen, die Zahlen 90 bis 99 aufschreiben

90	
91	
92	
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94	

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96	
97	
98	
99	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen



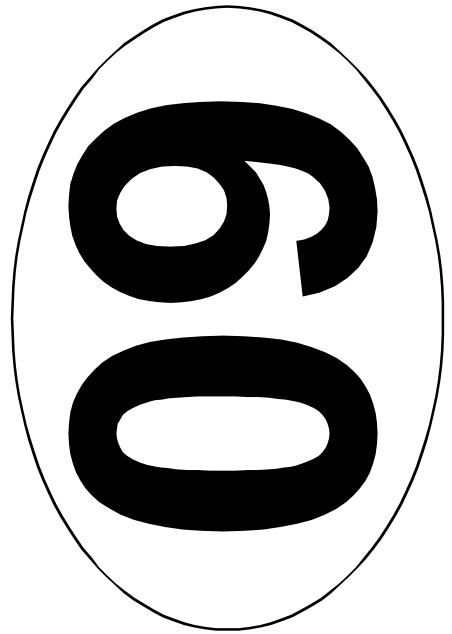
20

Zwei Zehner-Kartons blau anmalen, die Zahlen 20 bis 29 aufschreiben

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21	
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29	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen



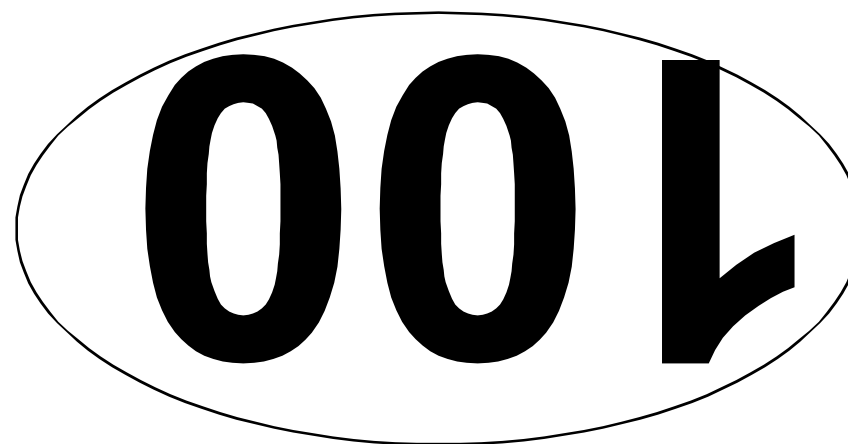
Sechs Zehner-Kartons blau anmalen, die Zahlen 60 bis 69 aufschreiben

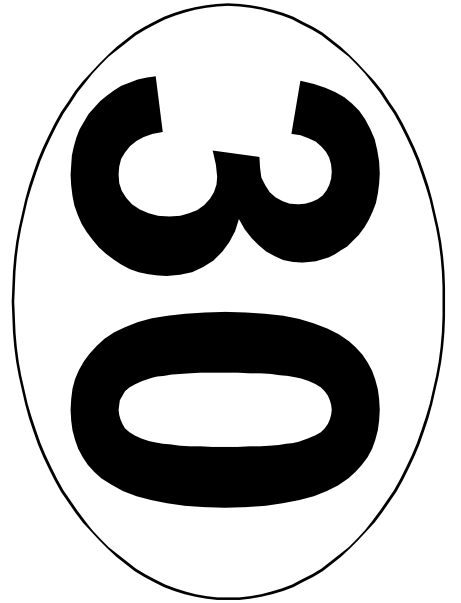
60	
61	
62	
63	
64	

65	
66	
67	
68	
69	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen

Schreibe deine Lieblingsaufgaben auf!





	30

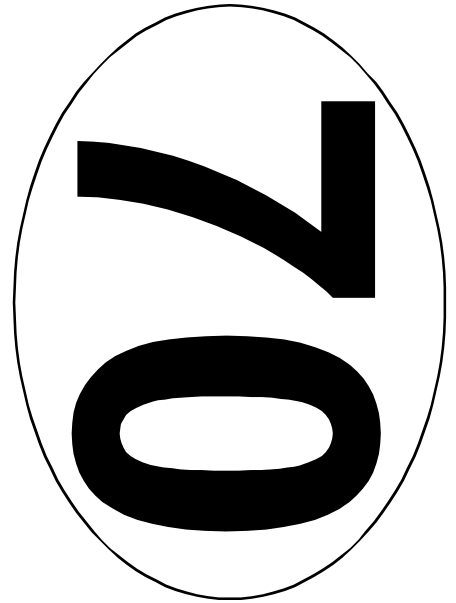
Drei Zehner-Kartons blau anmalen, die Zahlen 30 bis 39 aufschreiben

30	
31	
32	
33	
34	

35	
36	
37	
38	
39	

Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen

Sieben Zehner-Kartons blau anmalen, die Zahlen 70 bis 79 aufschreiben

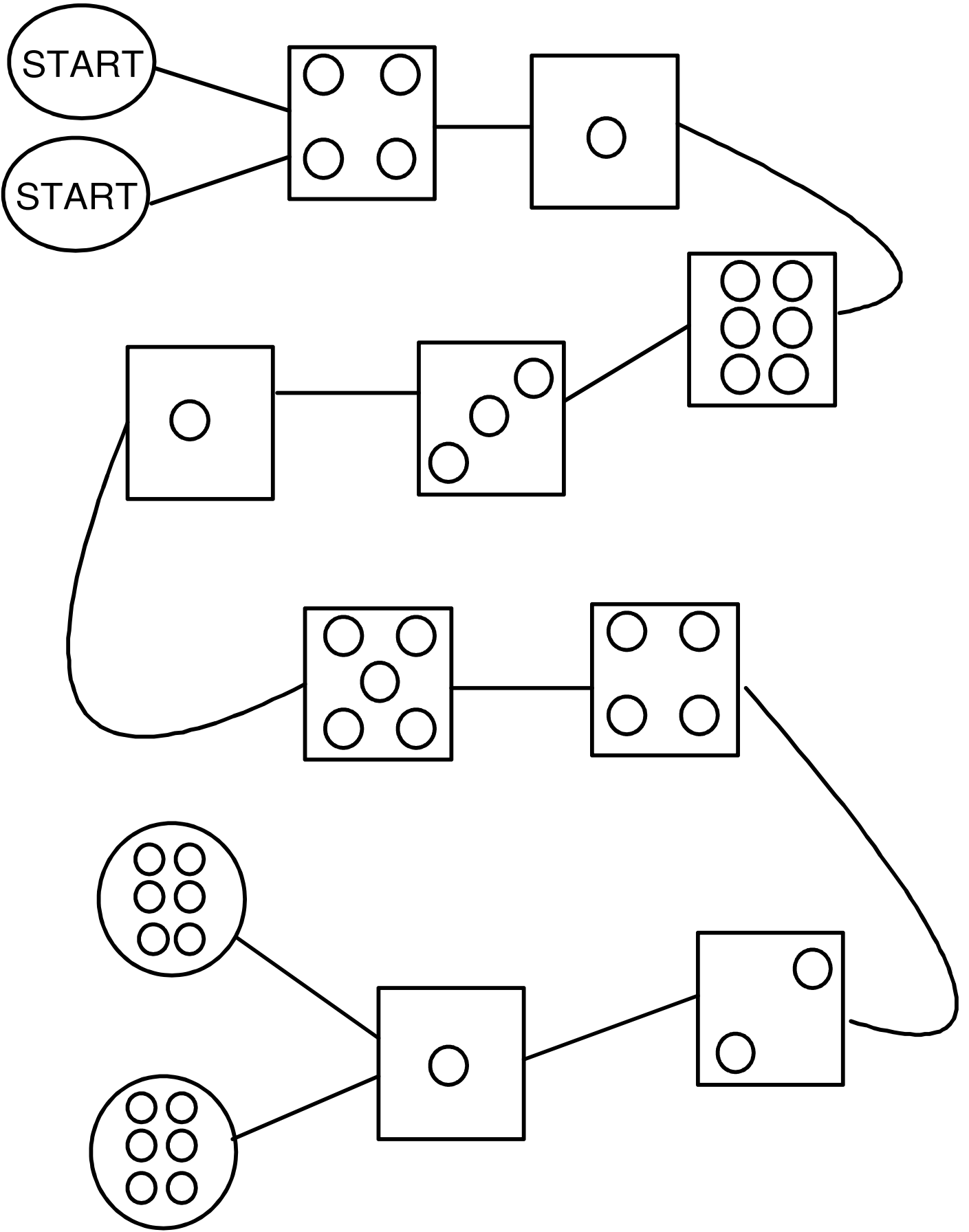


70	
71	
72	
73	
74	

75	
76	
77	
78	
79	

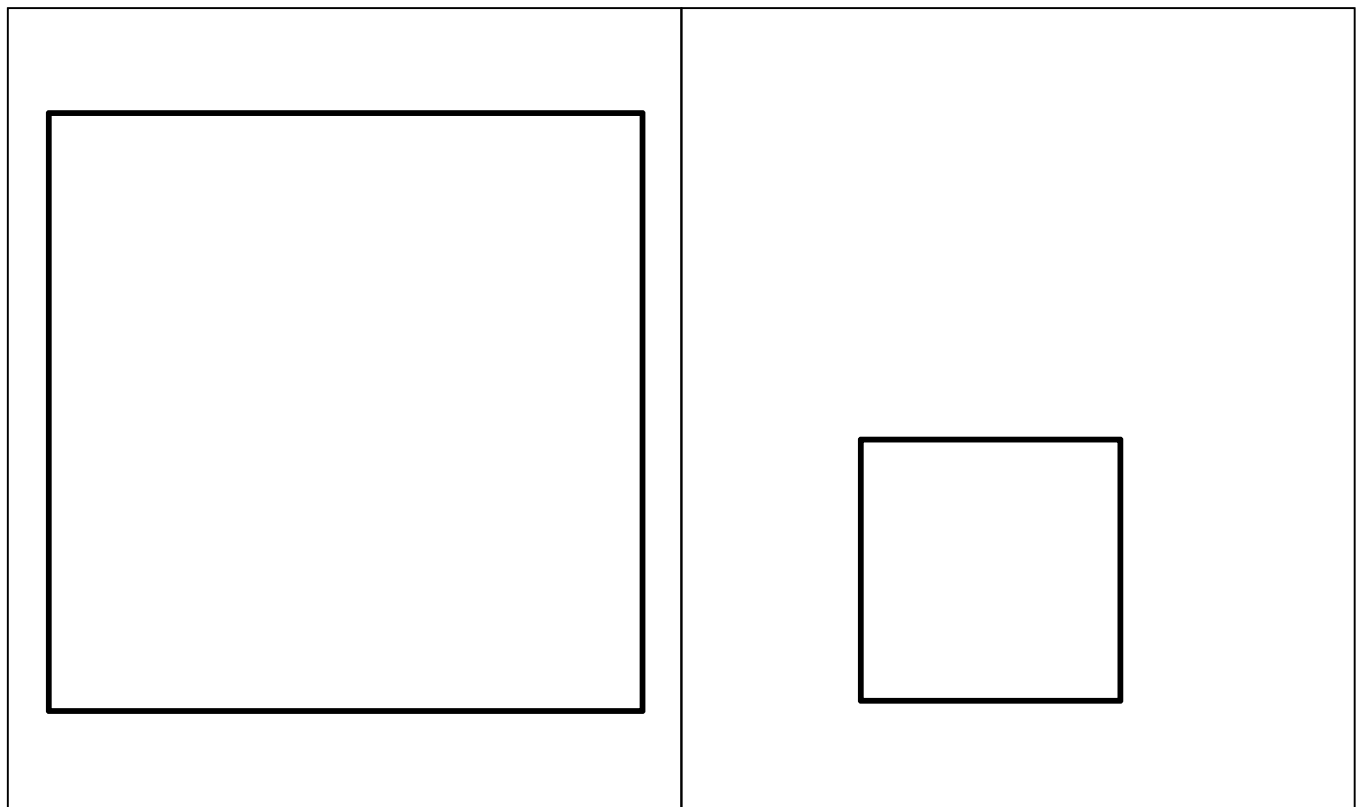
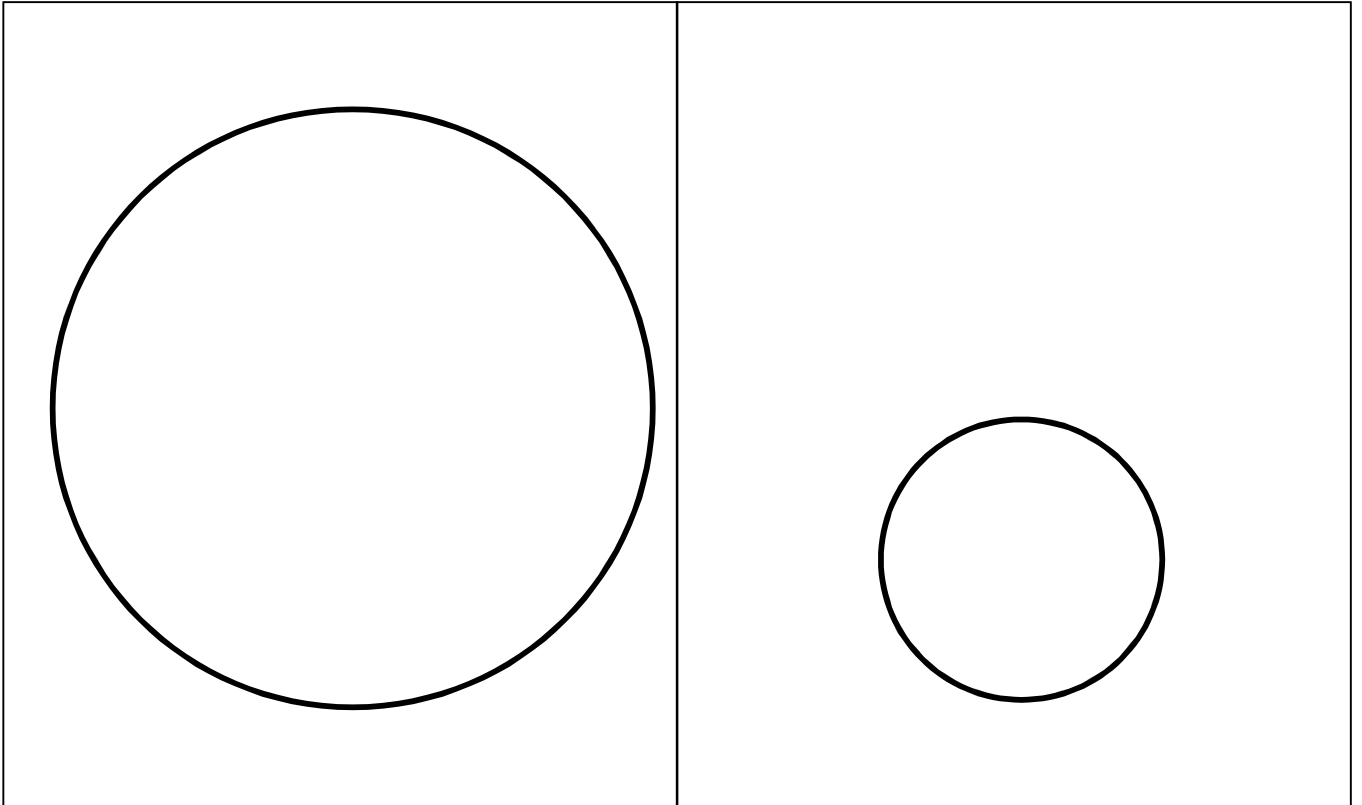
Die Zehnerzahl blau, die Einerzahl rot ausmalen
Die Menge zeichnen

WETTRENNEN

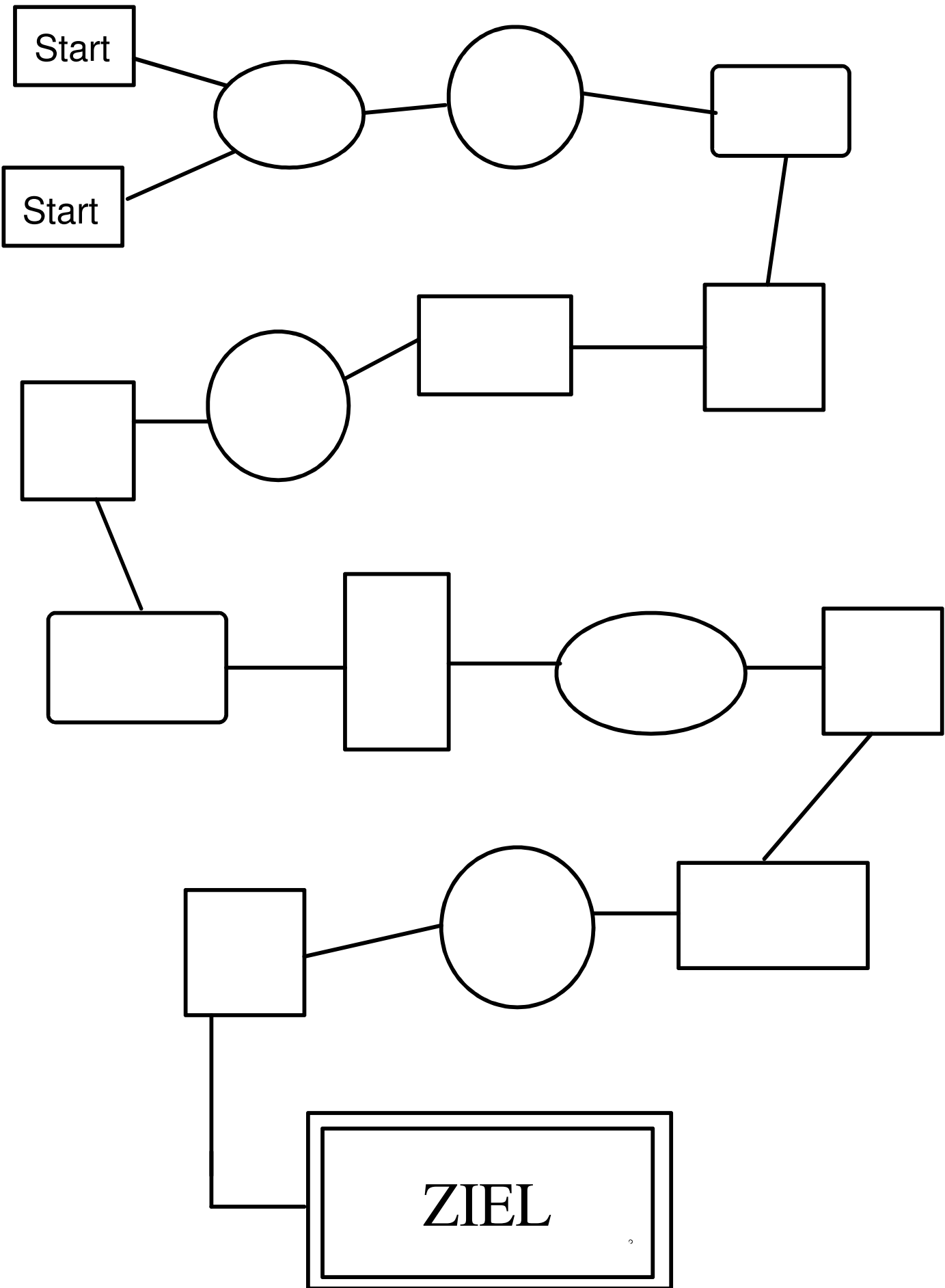


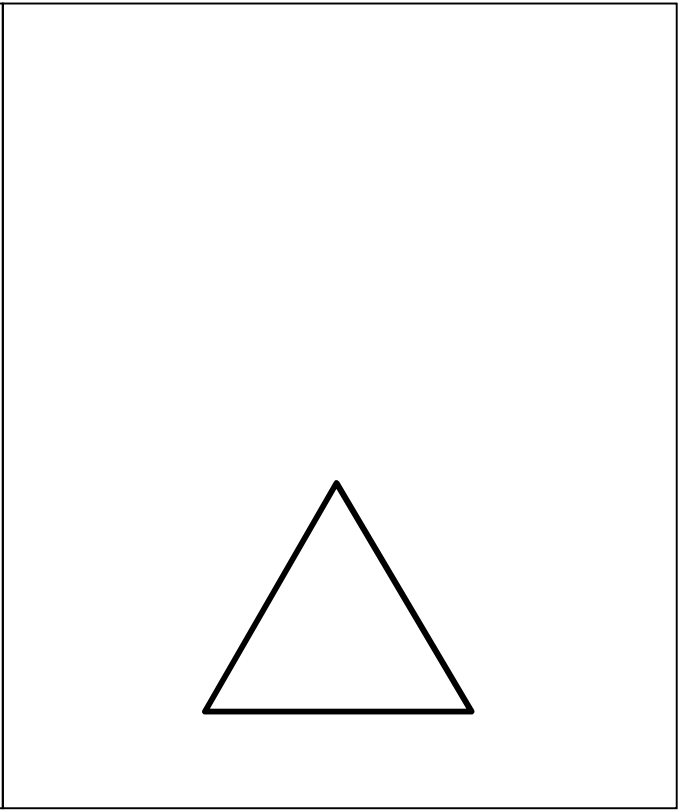
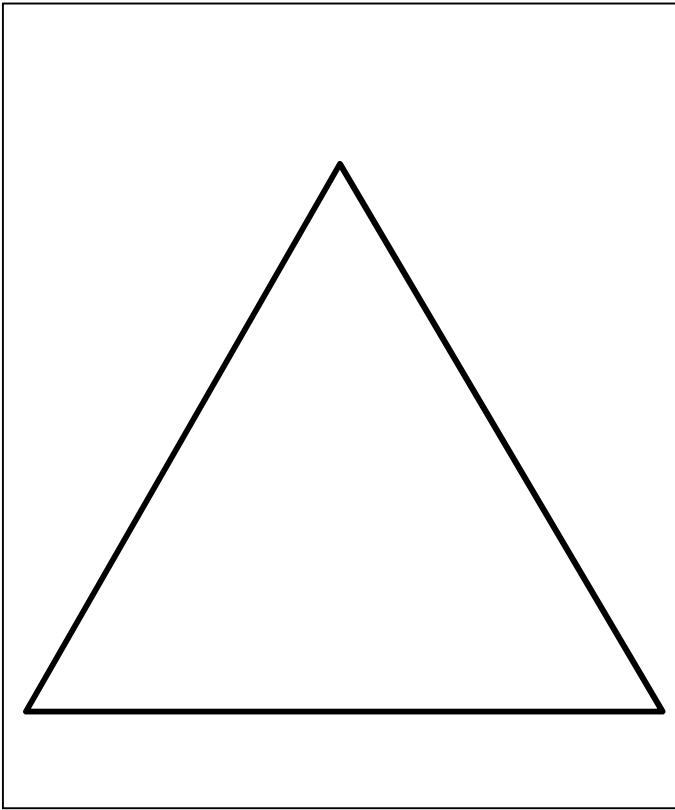
Formenkarten

(Die Karten 2x kopieren, die Formen mit den Farben rot , gelb, blau ausmalen und dann auf feste Pappe kleben, bei Bedarf Schnur zum Umhängen befestigen)

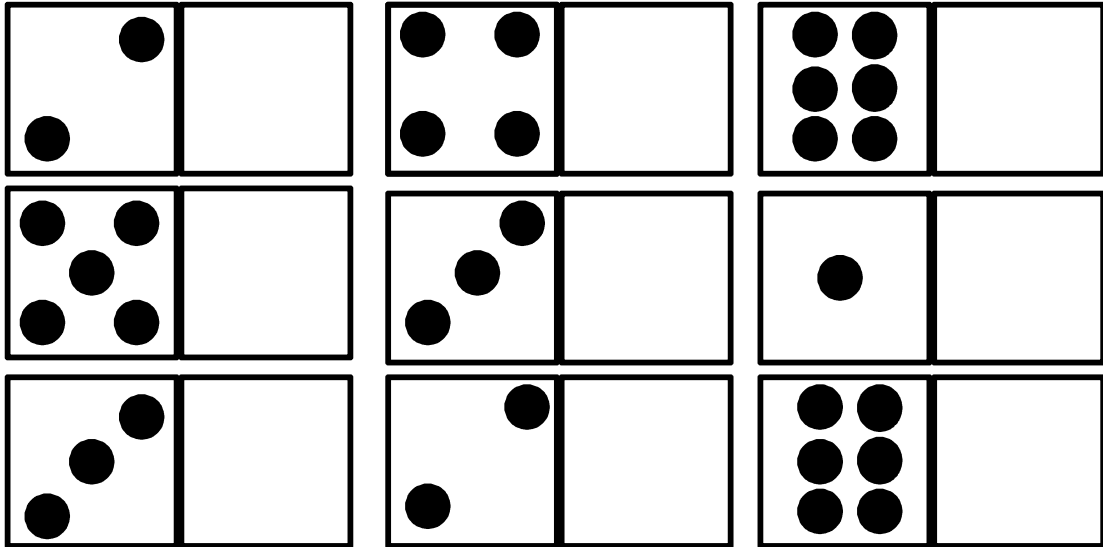
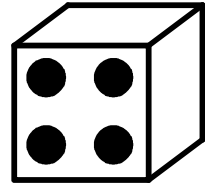


Wer hat die größte Zahl?

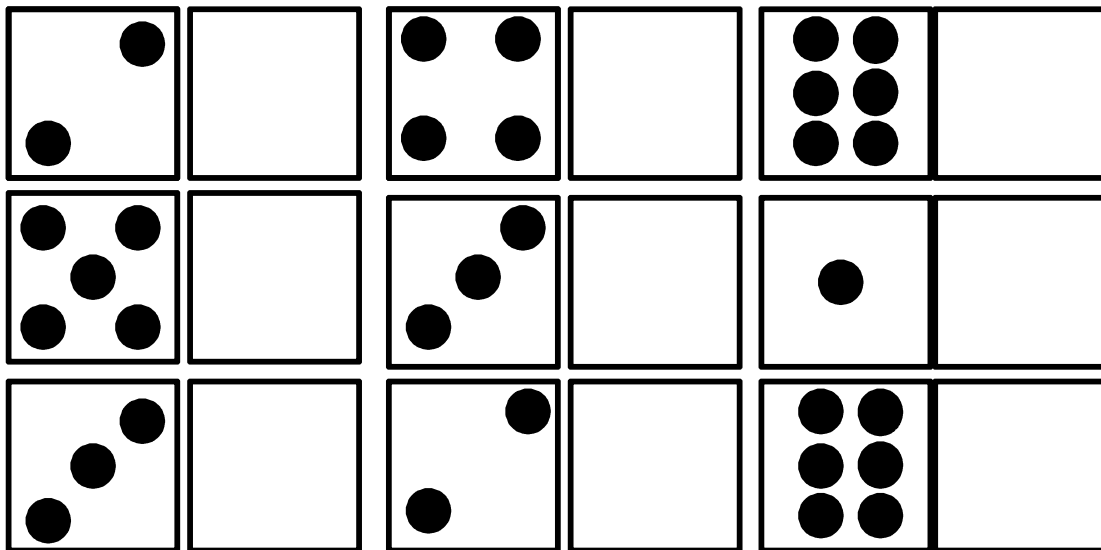
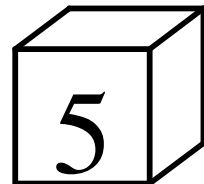




Blatt 1



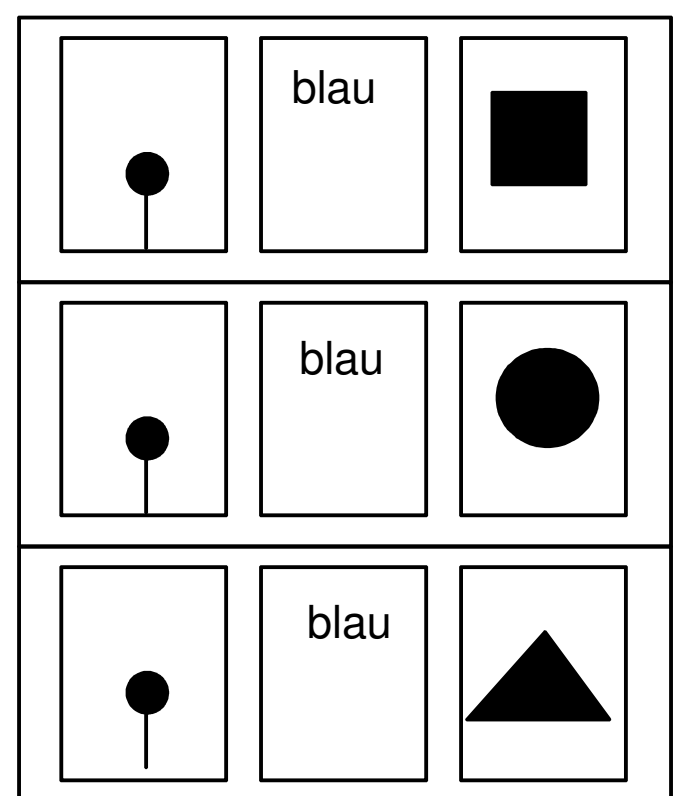
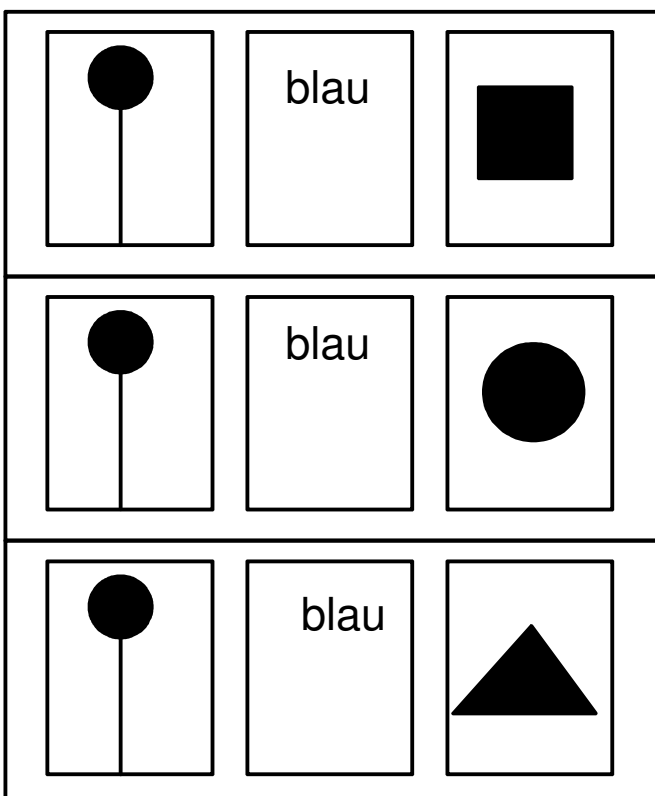
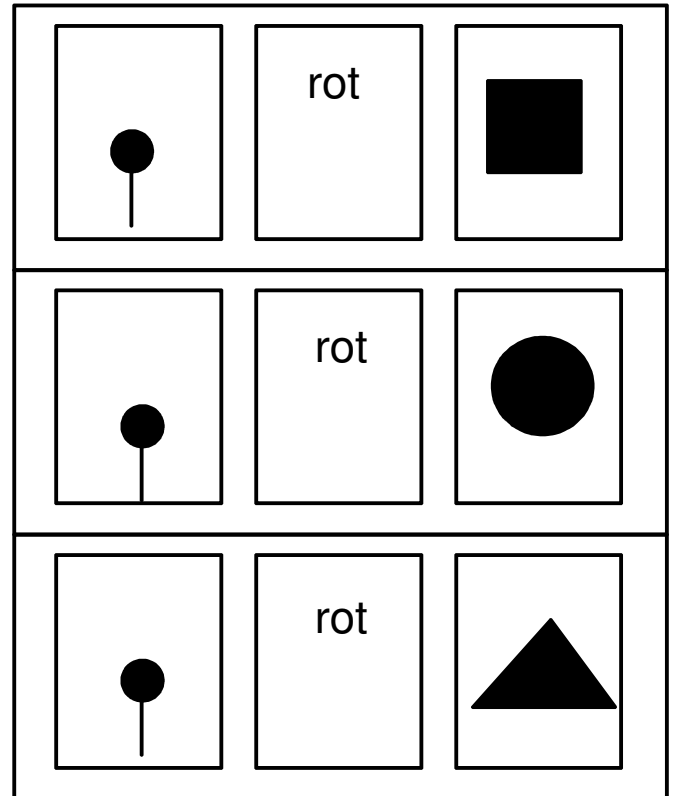
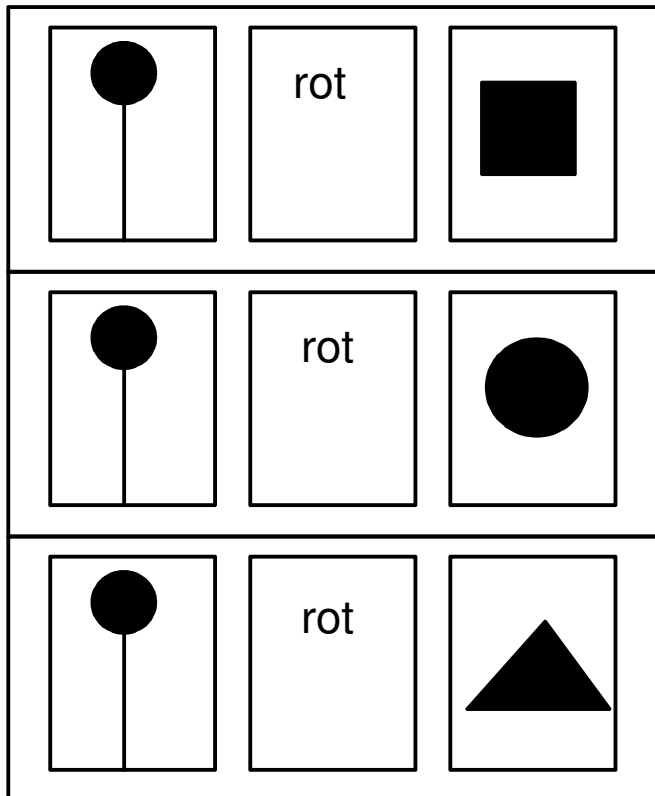
Blatt 2



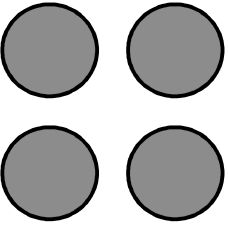
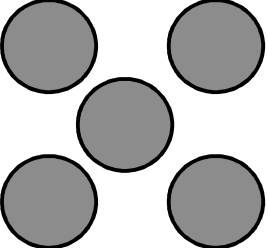
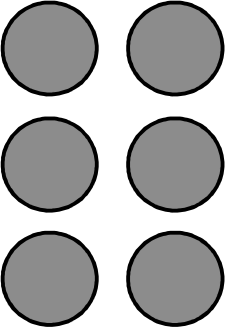
3-er Merkmalskarten

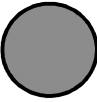
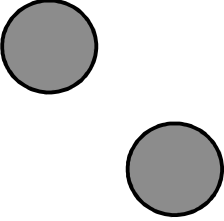
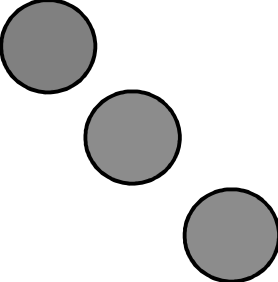
(Die Farben mit Hand eintragen)

Bedeutung: Ein großes, rotes Viereck,
ein kleines rotes Viereck, ...

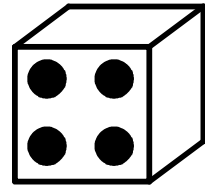


Paschkarten

4	
5	
6	

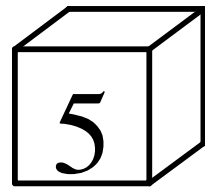
1	
2	
3	







Blatt 3



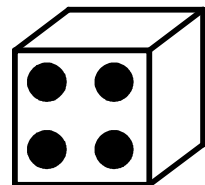
1	2	3	4	5	6

Blatt 4

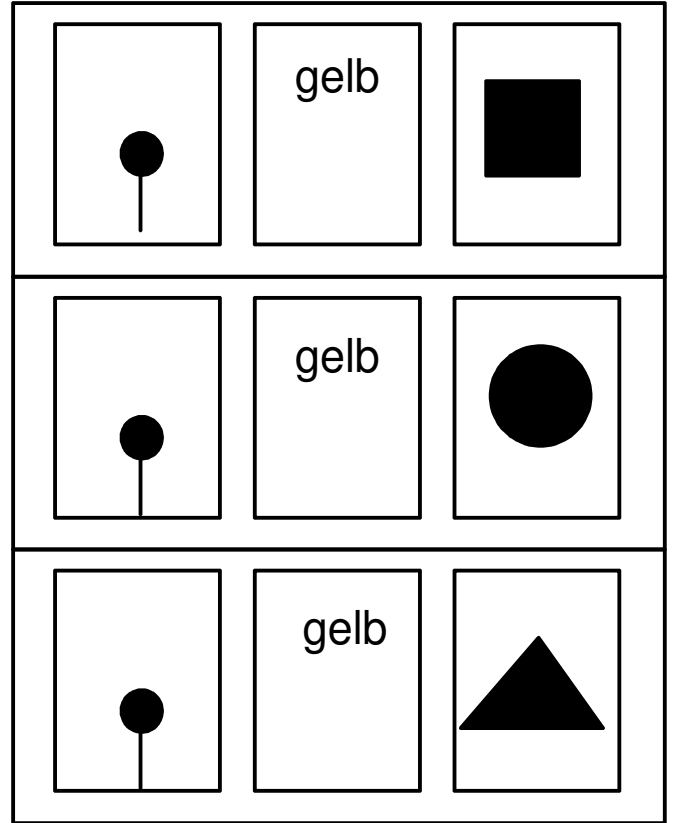
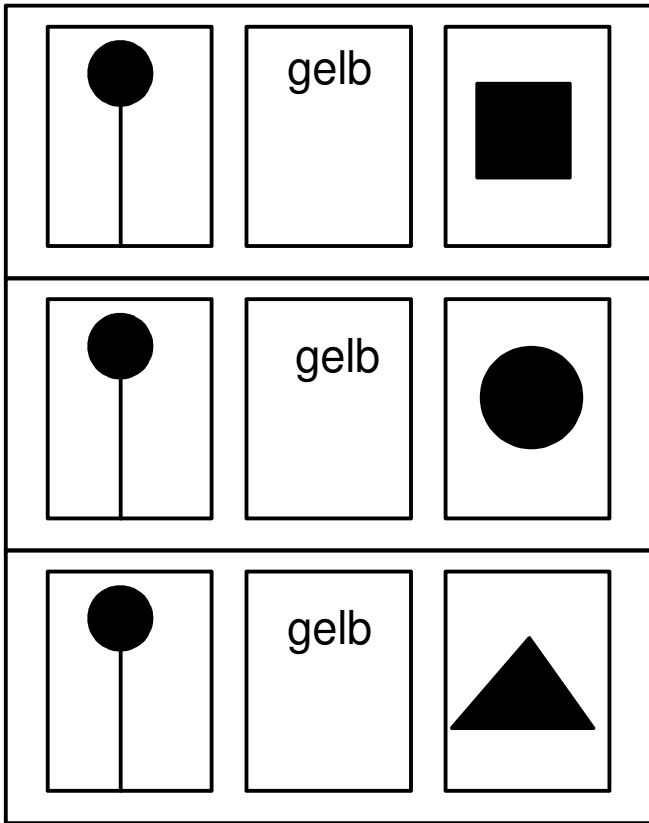


Blatt 5



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2-er Merkmalskarten

