

MATEMATICKÉ KLUBY

PŘÍLOHY



EVROPSKÁ UNIE
Evropské strukturální a investiční fondy
Operační program Výzkum, vývoj a vzdělávání



Projekt Matematické kluby: Laboratoř pro adaptaci výuky orientované na budování schémat pro potřeby žáků se socioekonomickým a kulturním znevýhodněním, registrační číslo: CZ.02.3.61/0.0/0.016_012/0000593 byl financován z prostředků ESIF a státního rozpočtu ČR prostřednictvím Operačního programu Výzkum, vývoj a vzdělávání.

MATEMATICKÉ KLUBY PŘÍLOHY K METODICE REALIZACE

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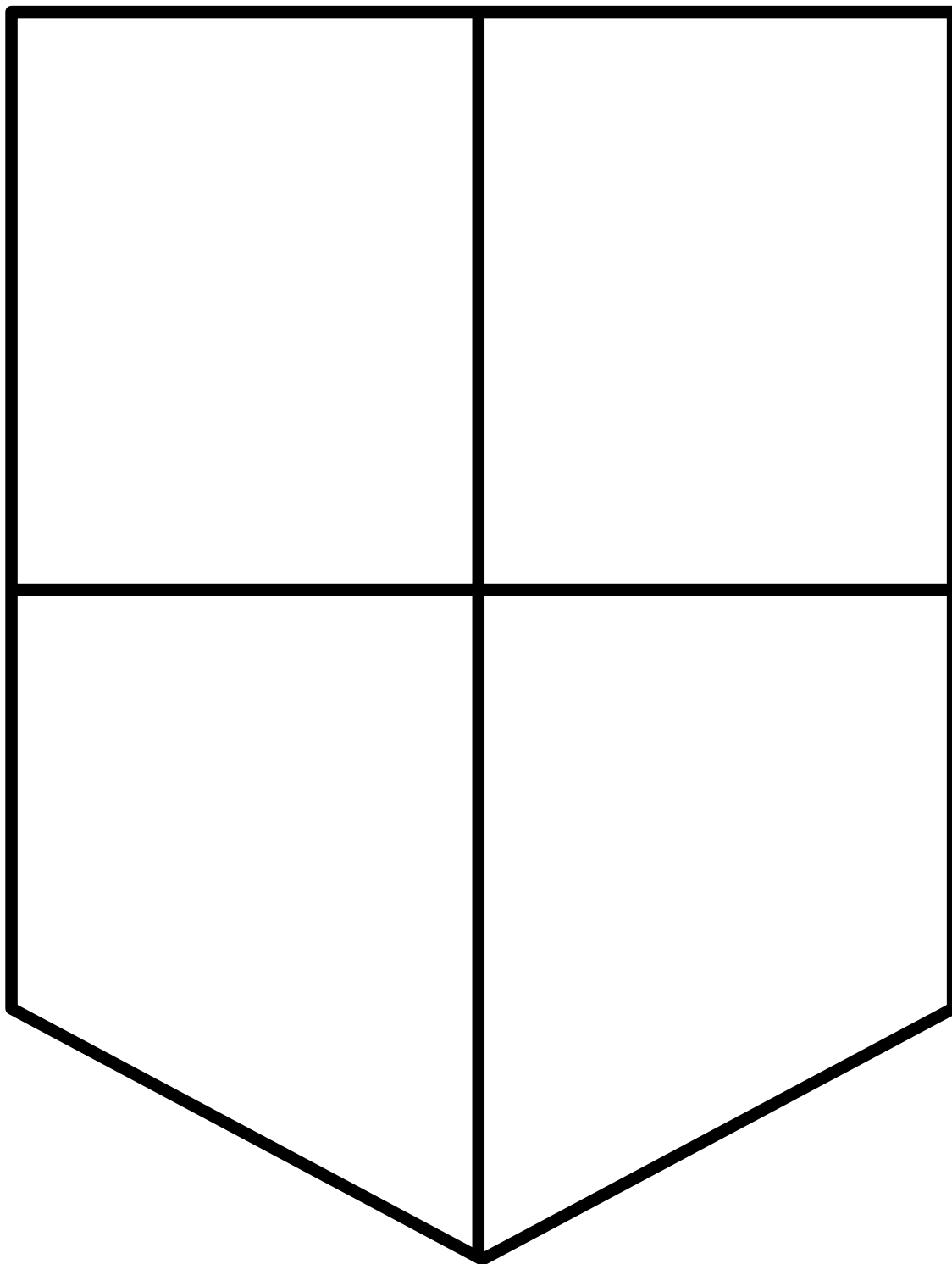
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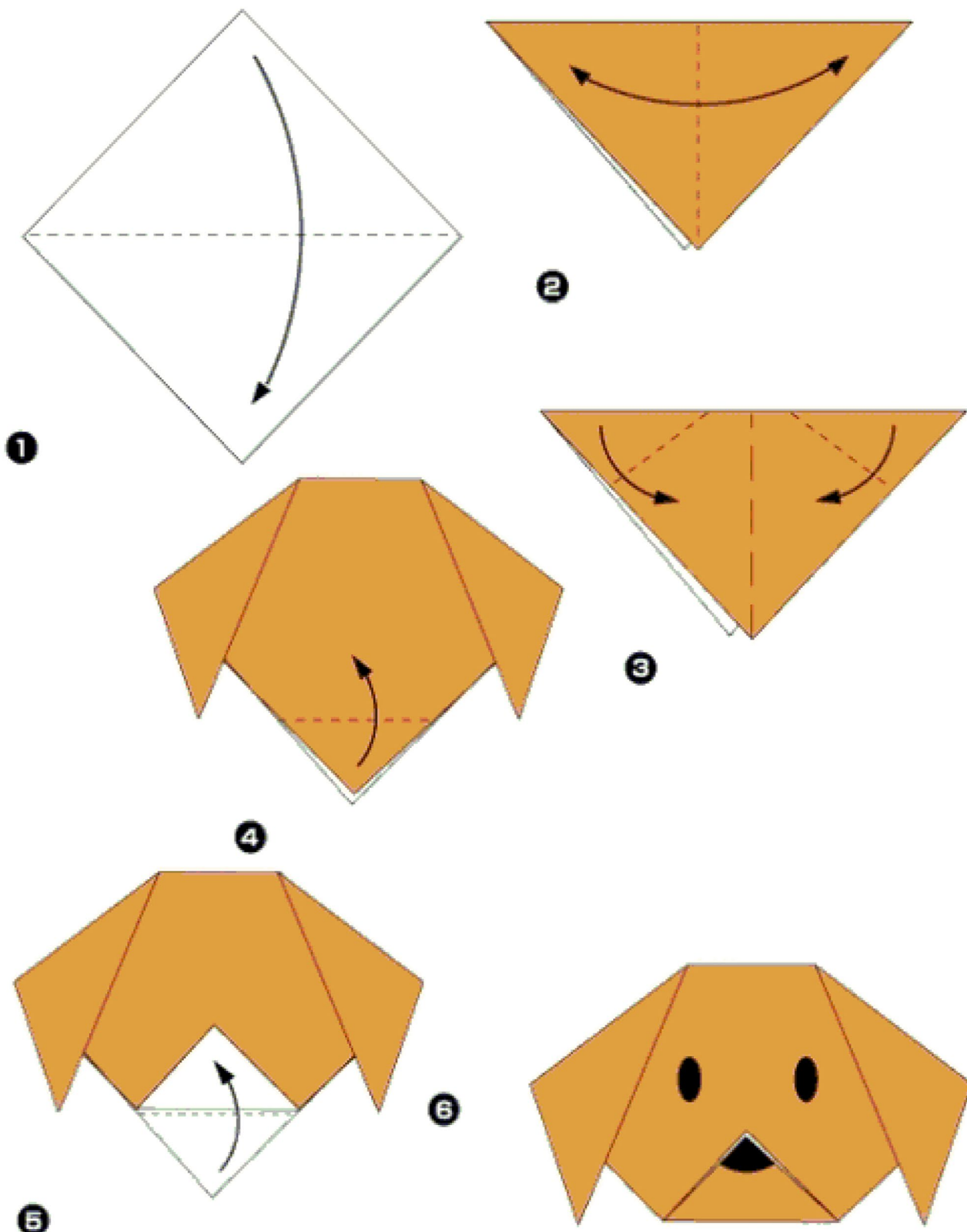
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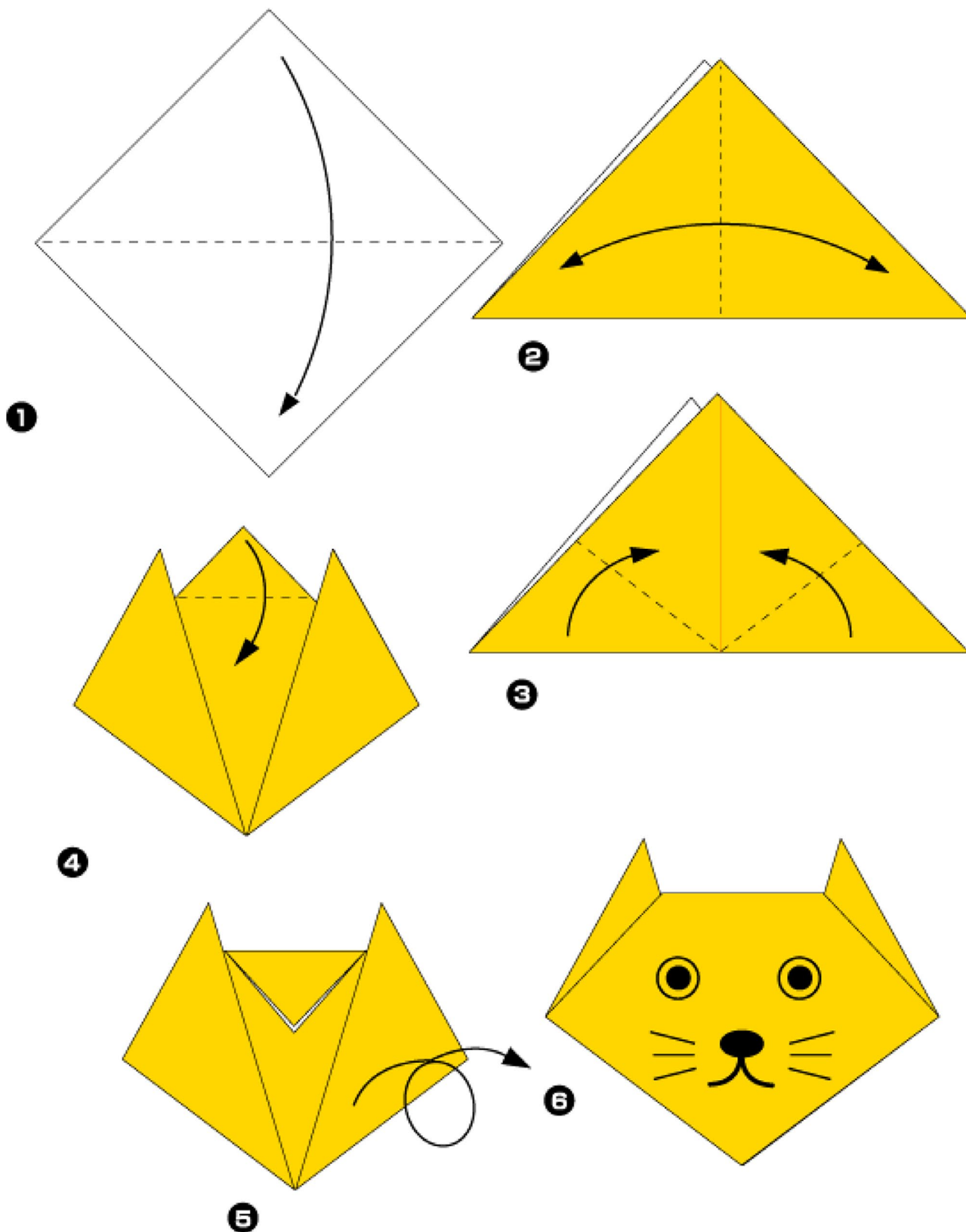
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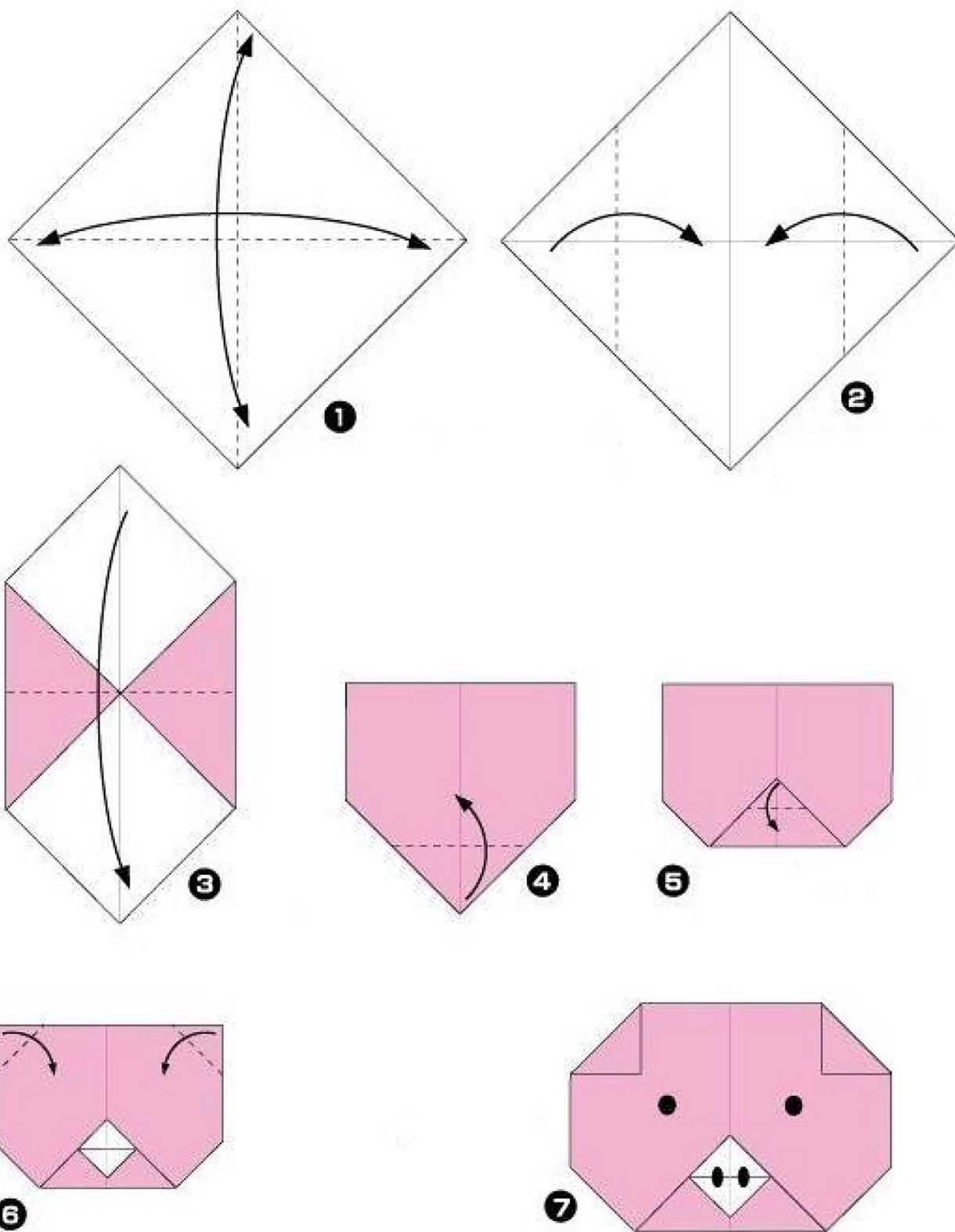
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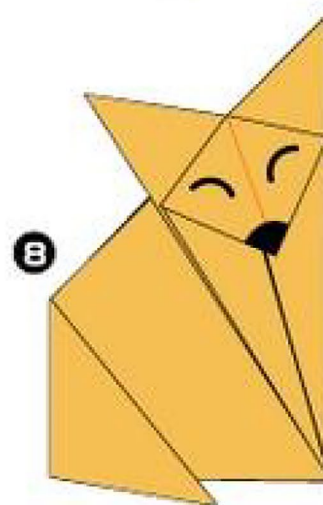
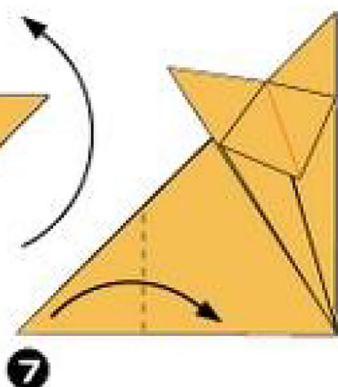
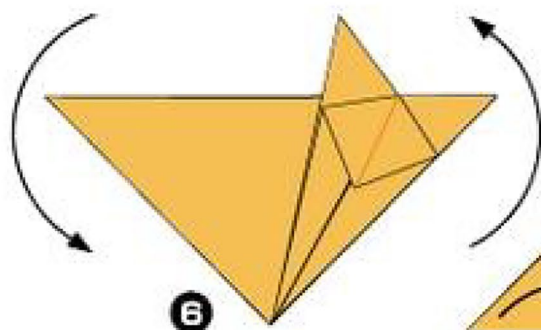
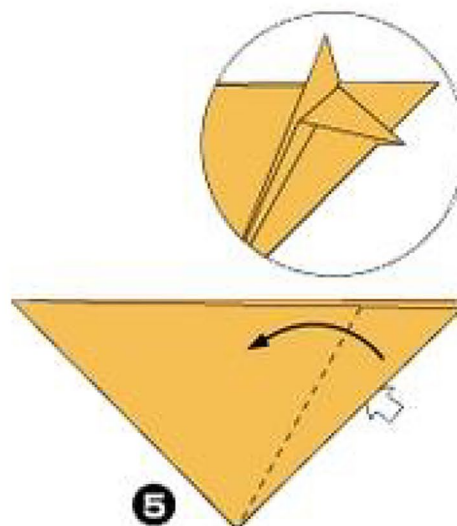
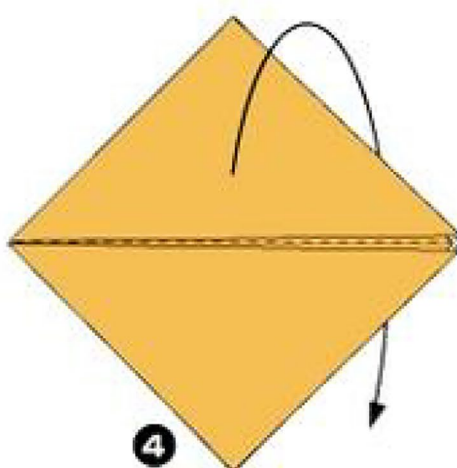
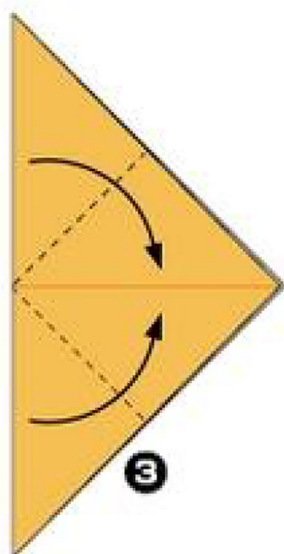
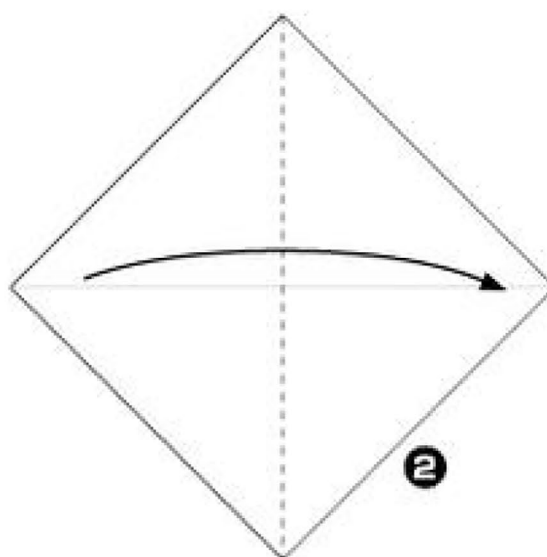
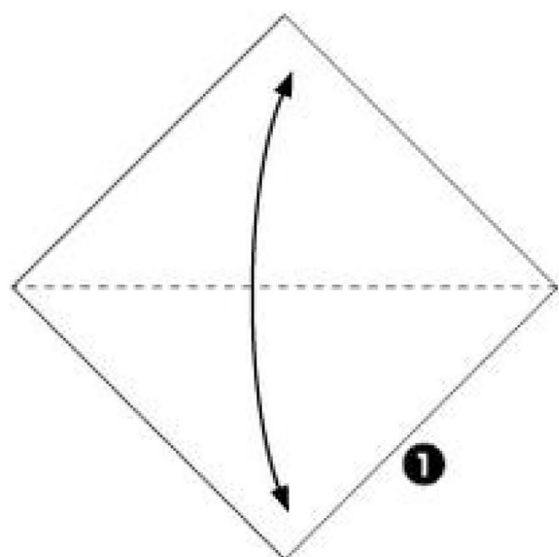
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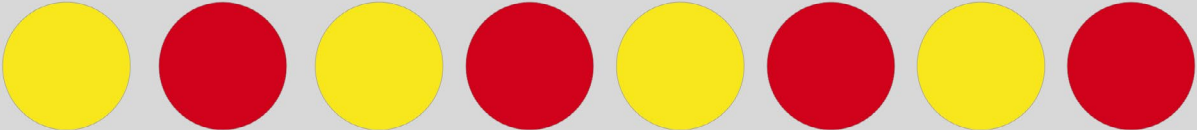









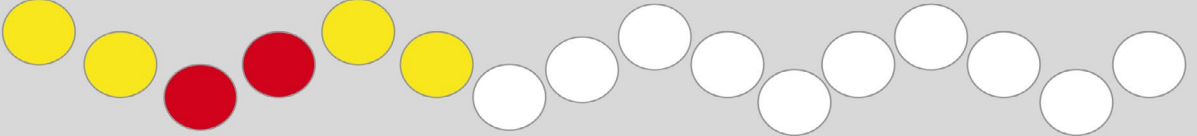
1 ČTI



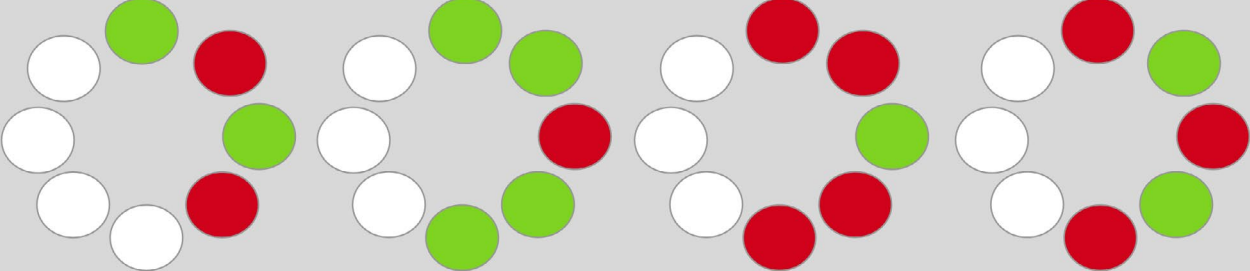
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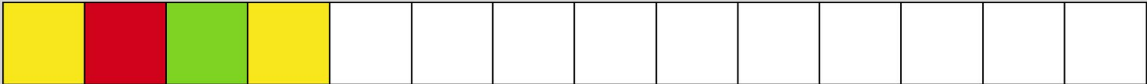
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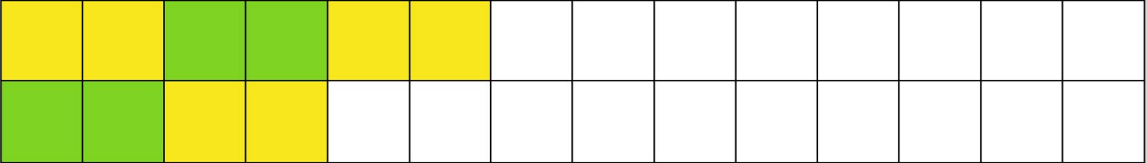
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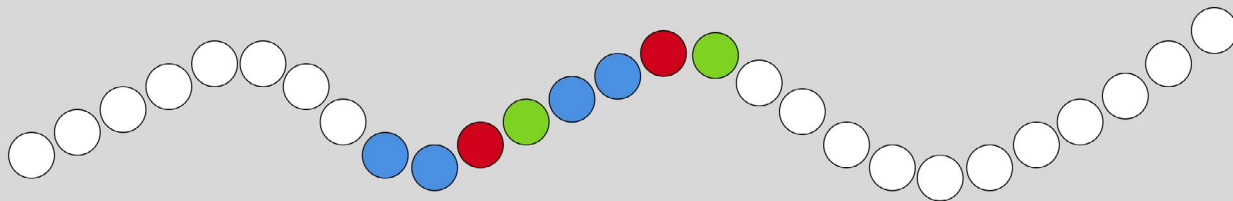
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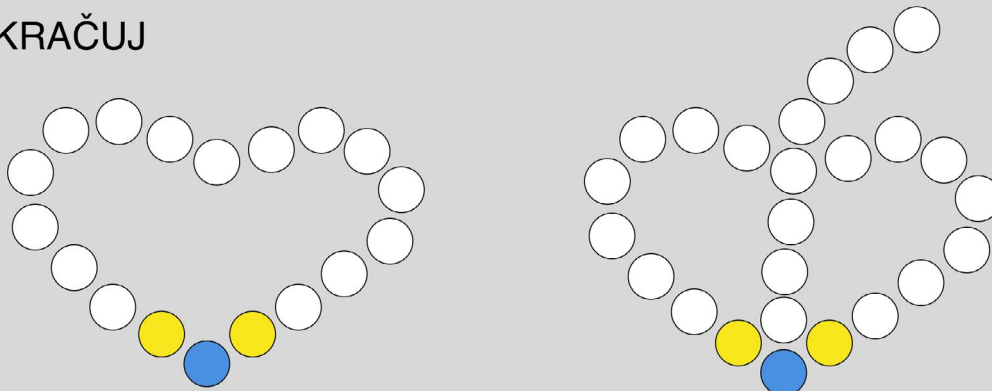
6 POKRAČUJ



7
POKRAČUJ



8
POKRAČUJ





9
POKRAČUJ



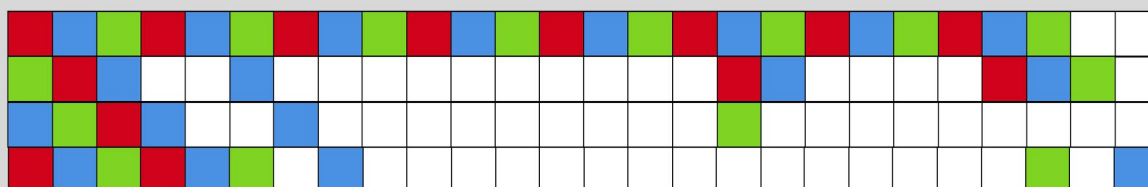
Ukaž v řadě všechna žlutá kolečka. Je jich _____.
 Ukaž v řadě všechny červené čtverce. Je jich _____.
 Modrých koleček je více/méně než červených čtverců. O kolik? _____.

10
DOPLŇ

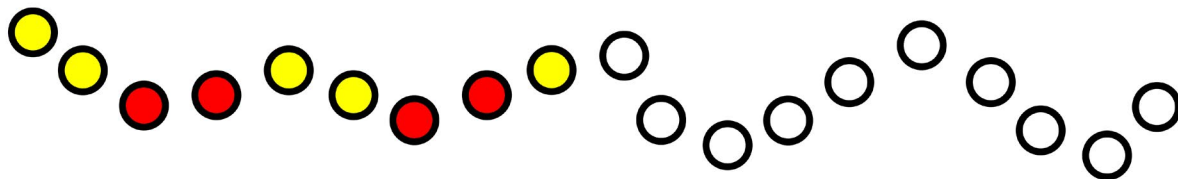


Co chybělo? Bylo to _____  a _____ .

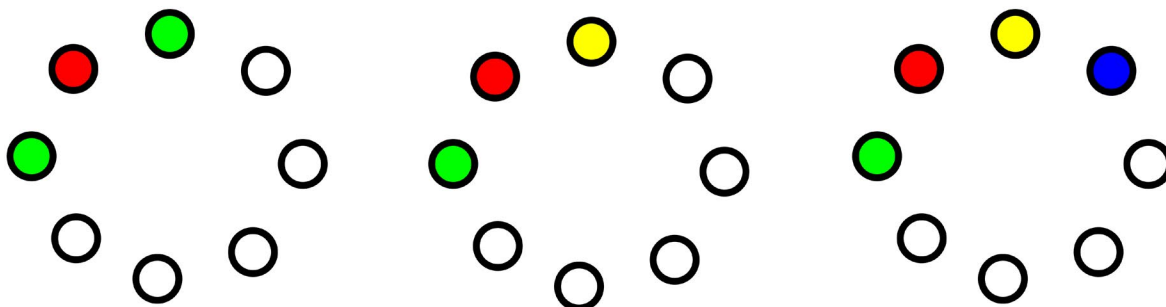
11
DOKONČI



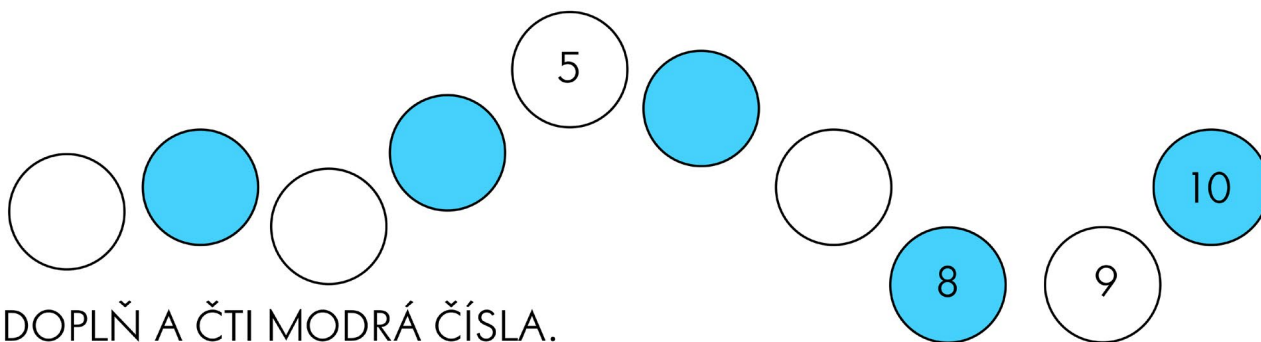
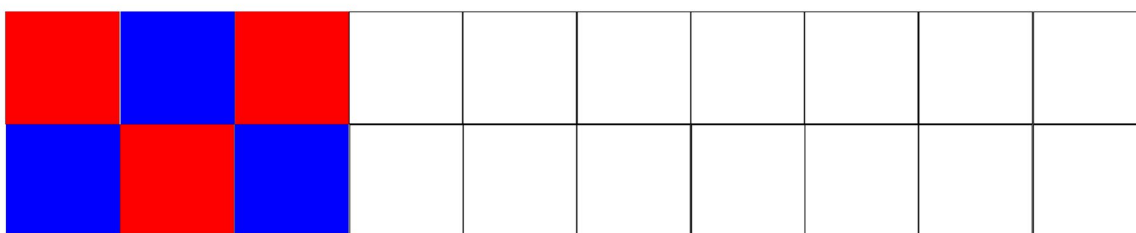
POKRAČUJ.



POKRAČUJ.



POKRAČUJ.



DOPLŇ A ČTI MODRÁ ČÍSLA.

DOPLŇ. SLEDUJ PÍSMENA I BARVY.

A B C D E A B C D E A	_	_	_	_	_	_	_	_	_	_
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DOPLŇ, CO CHYBÍ.

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Je to .

Je to .

Je to .

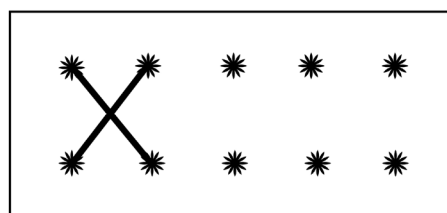
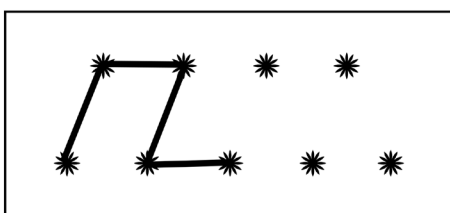
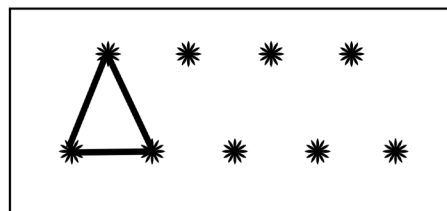
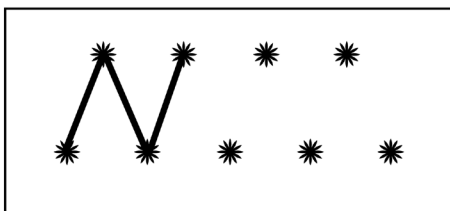


DOPLŇ.

POKRAČUJ.

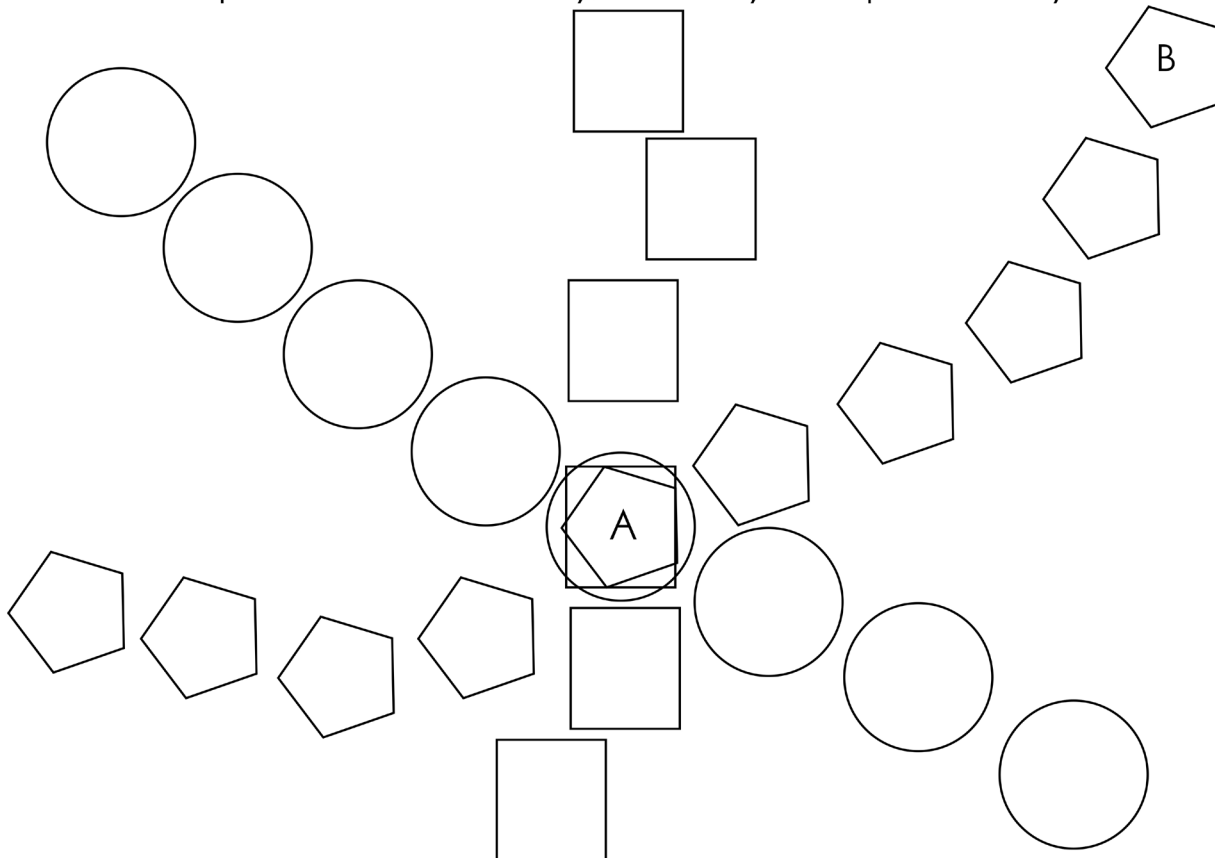


POKRAČUJ.



VÝZVA. DOPLŇ S POMOCÍ PÍSMEN A, B, C, D.

Písmena musí jít zasebou dle abecedy, nemusí být však použita vždy všechna.



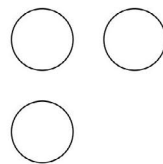
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4	



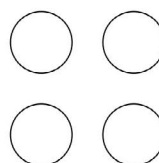
1	



	4

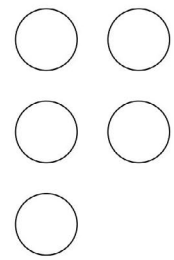


1	
	4

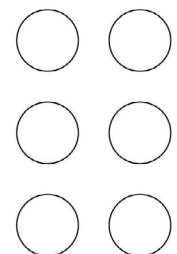




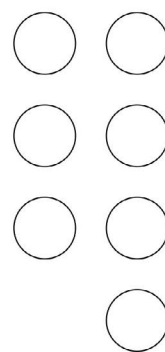
	1
	8



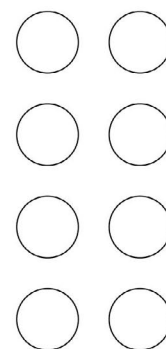
	2
4	
	10
7	8



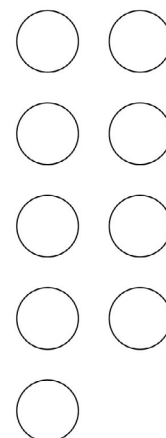
7		
		4
		1



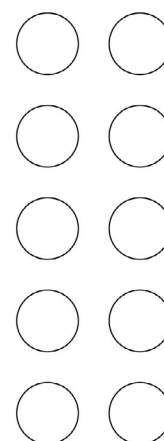
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	8		10



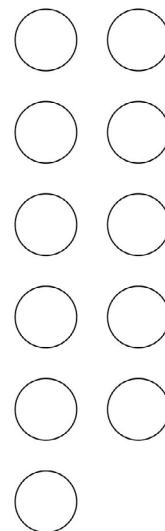
			1
			6
	9		



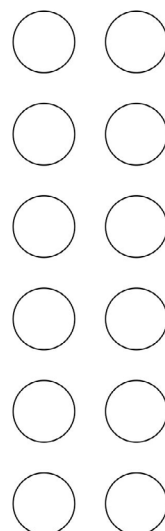
		7	
	1		



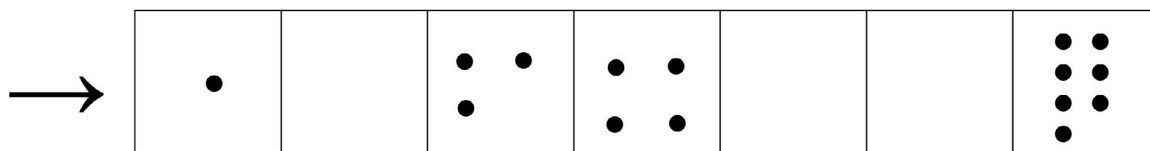
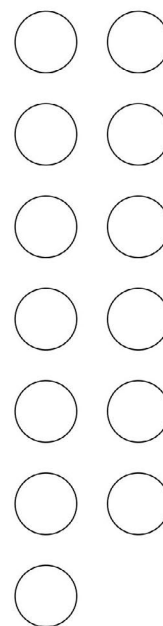
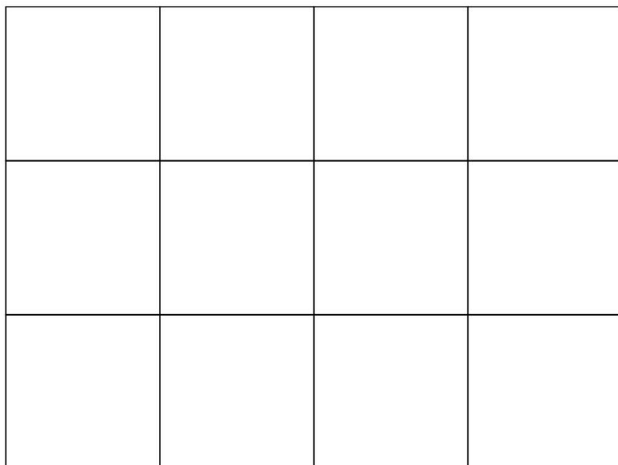
			12
2			
	6		

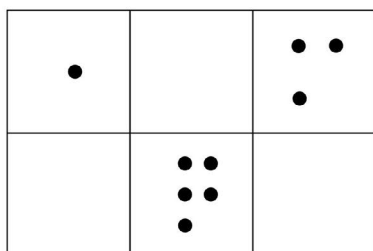
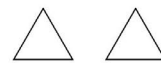
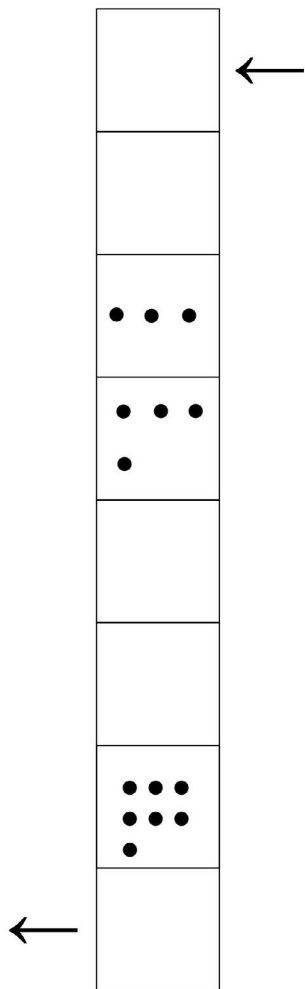


Vytvoř vlastní bažinu.

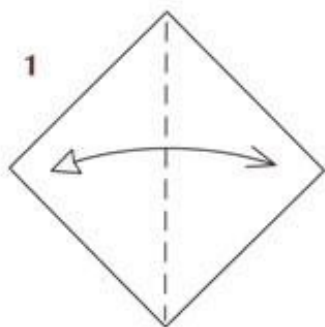


Vytvoř vlastní bažinu.

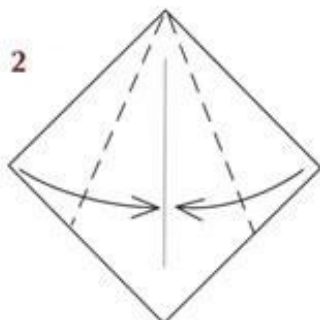




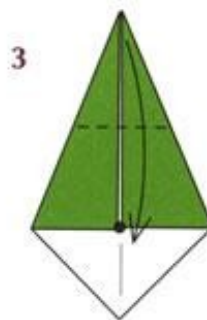
Simple Crocodile



1 Fold and unfold.



2 Fold to the center.



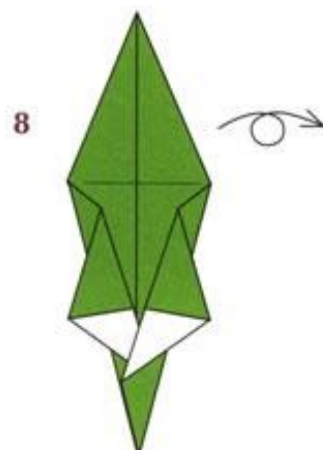
3 Fold down a little below the dot.



6 Repeat steps 4–5 on the right.



7 Pull out the hidden flap.



9 Pleat folds.



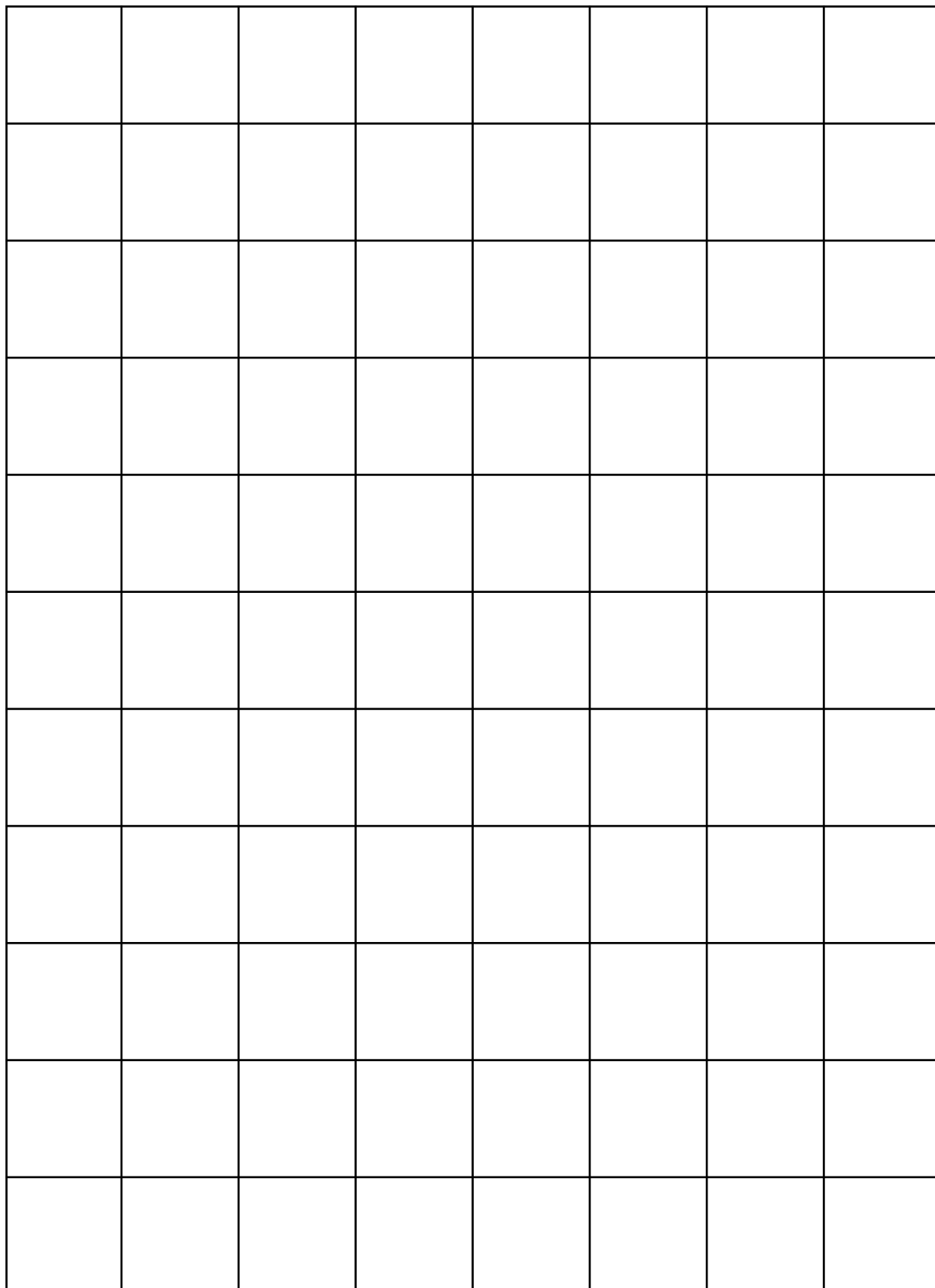
10 Pleat folds.



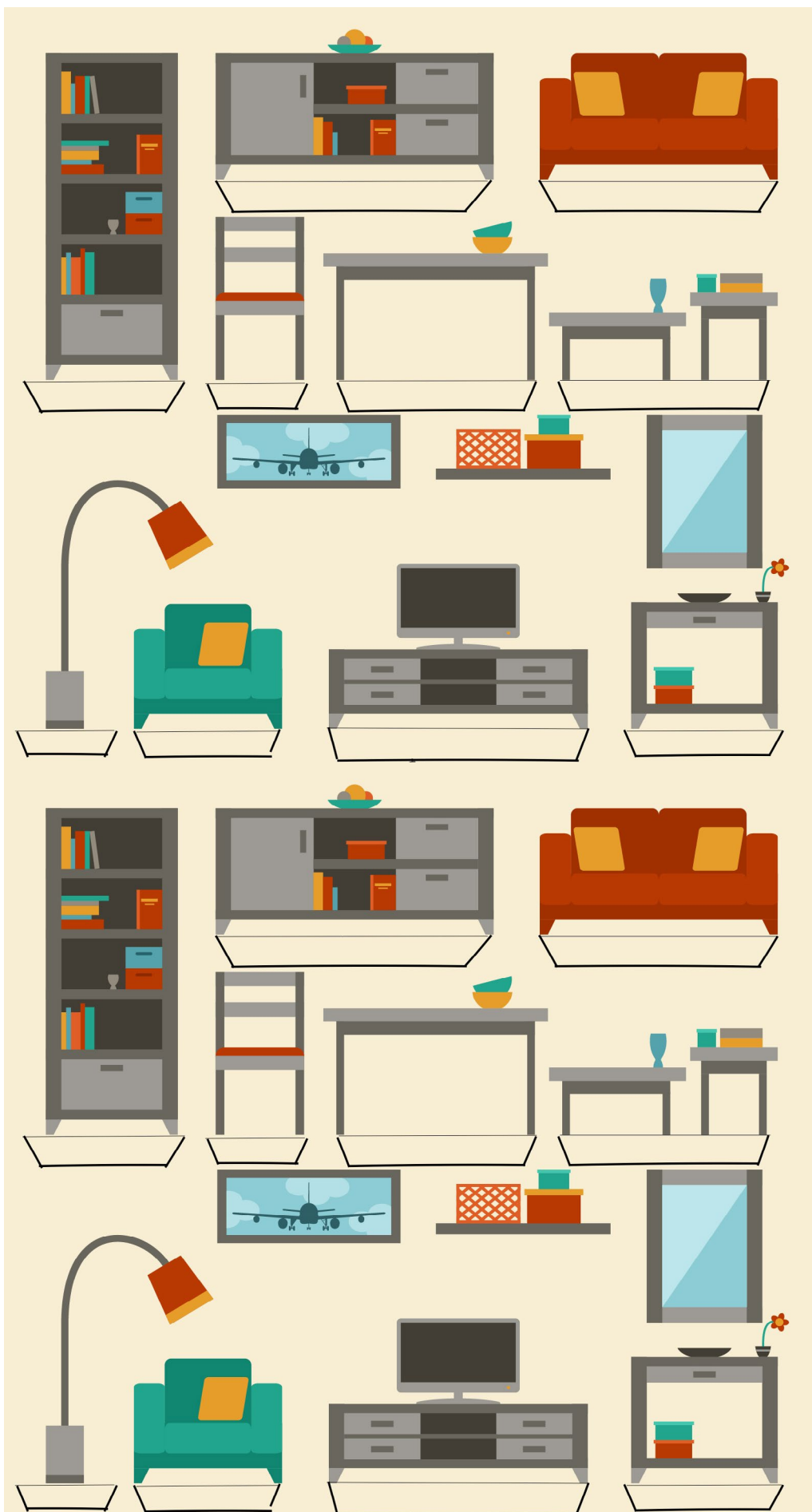
11 1. Fold the tip behind.
2. Bend and curl the tail a little bit.



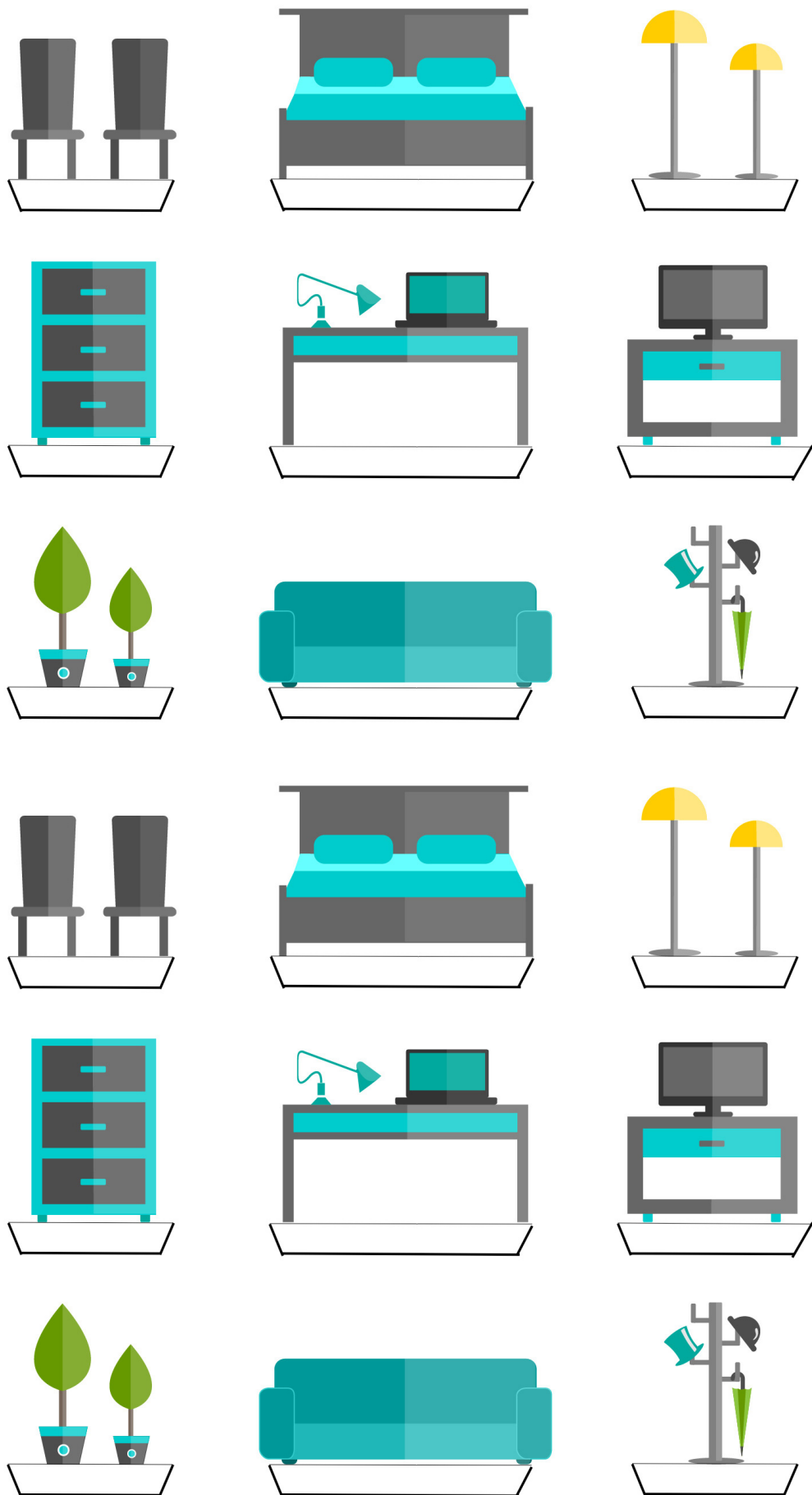
12 Simple Crocodile







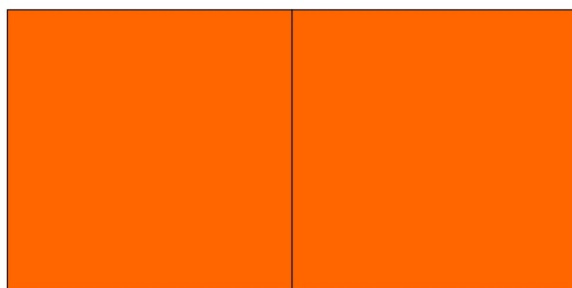
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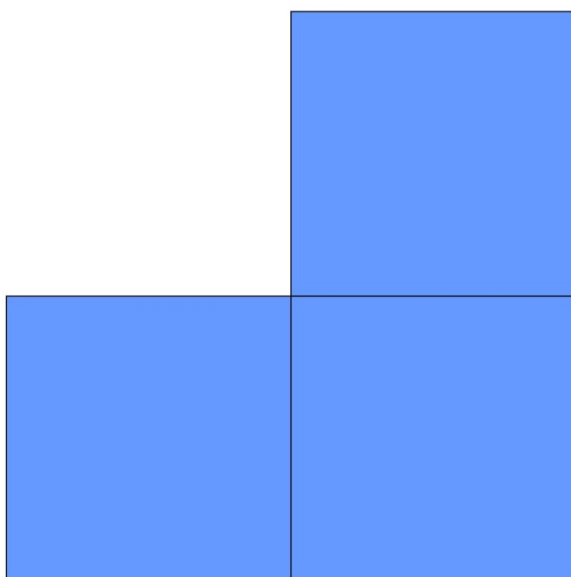
MONO



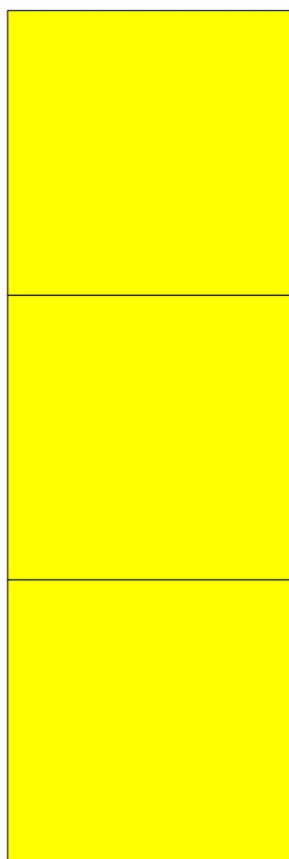
DUO



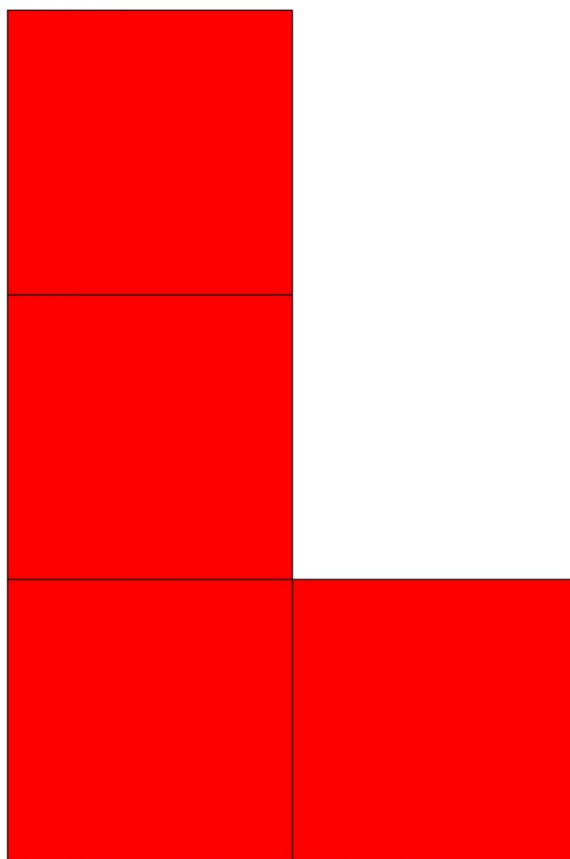
RŮŽEK



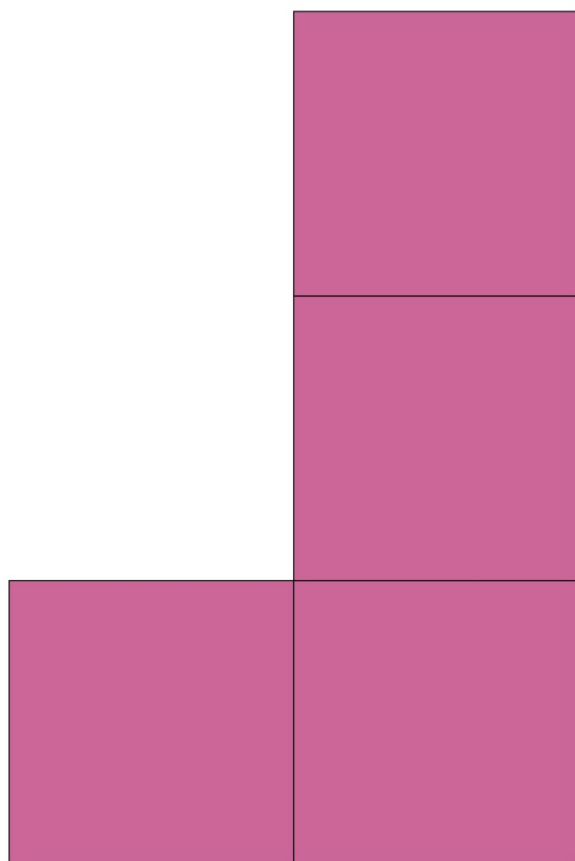
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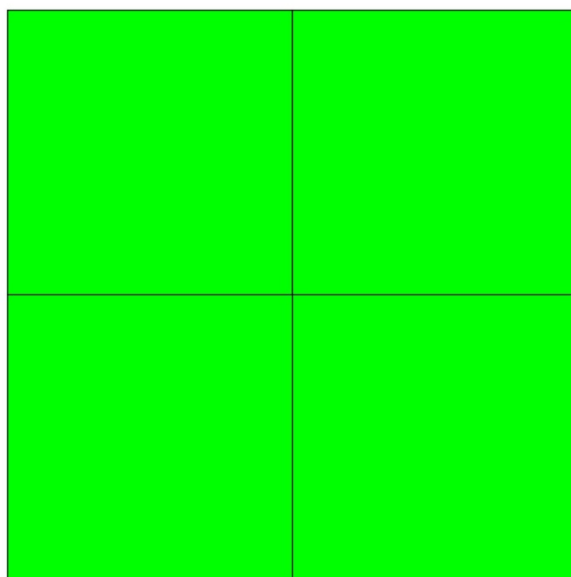
ELKO



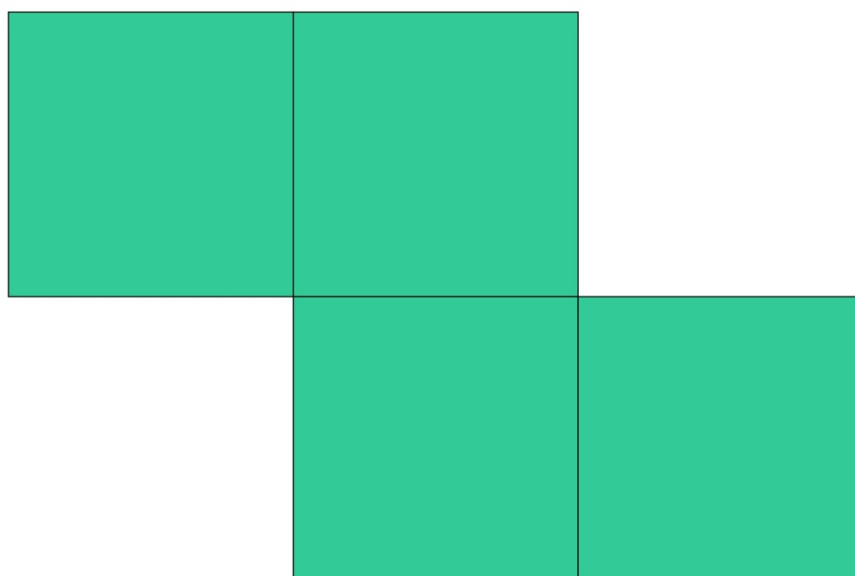
OKLE



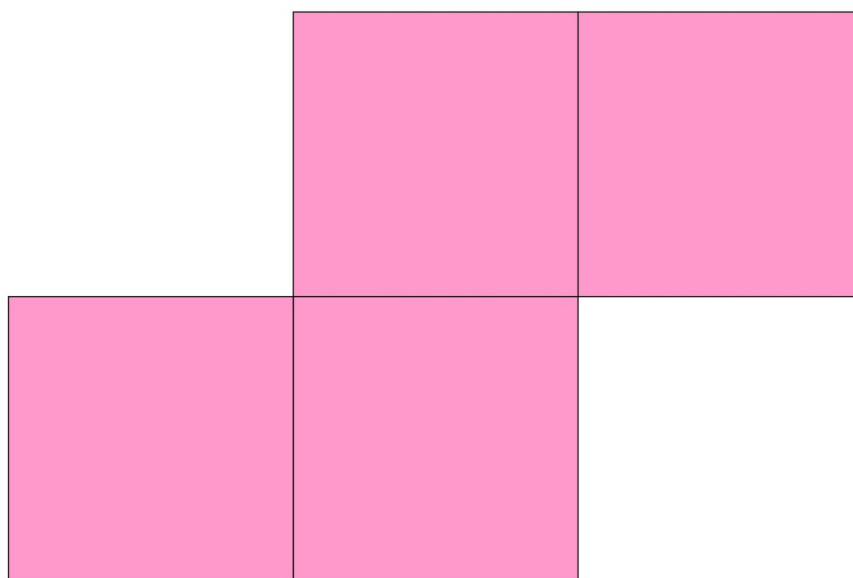
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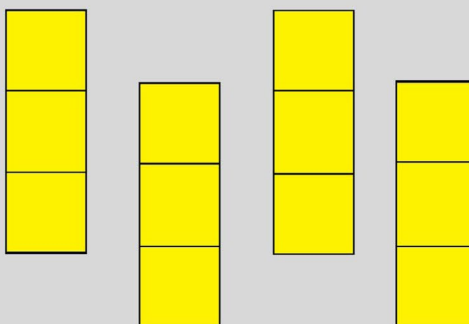
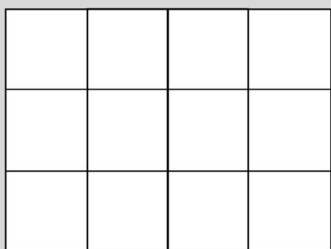
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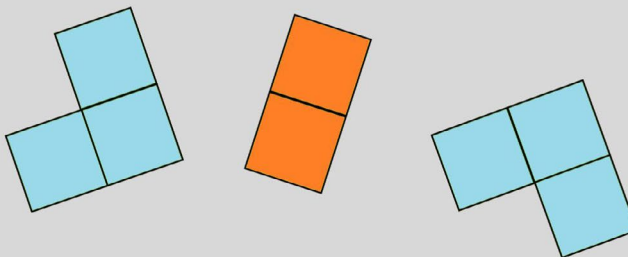
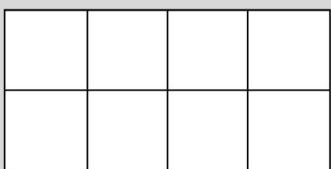
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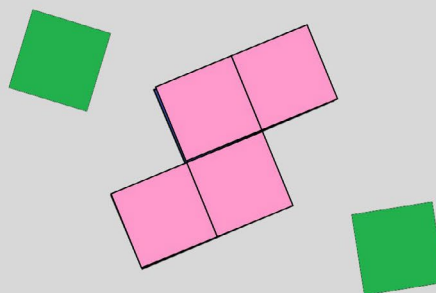
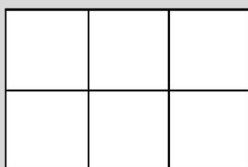
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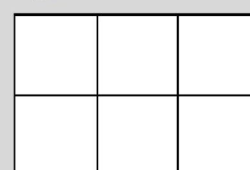
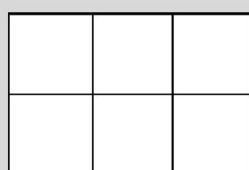
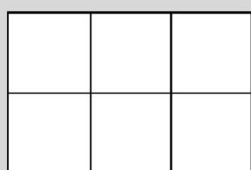
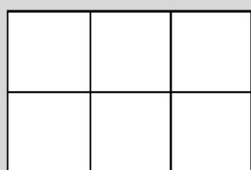
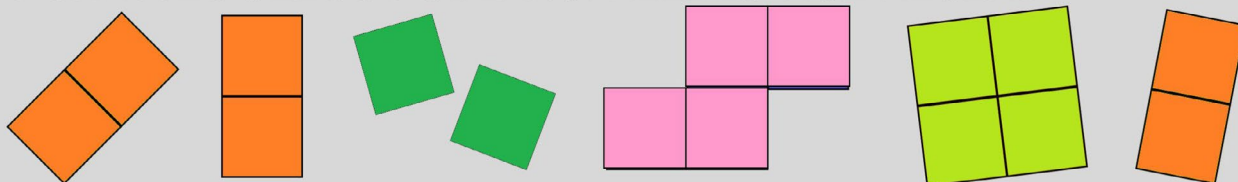
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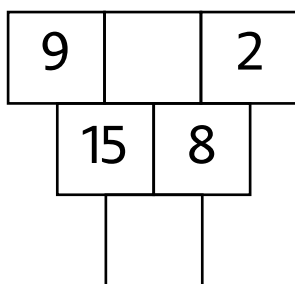
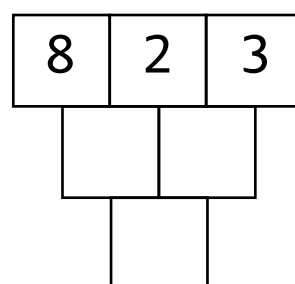
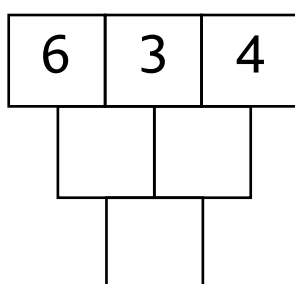
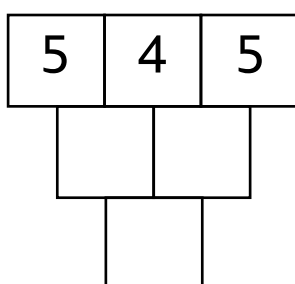
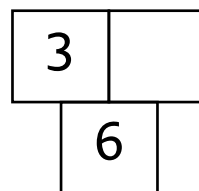
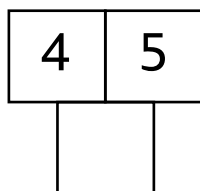
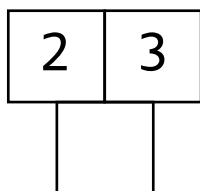


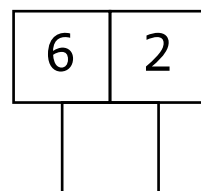
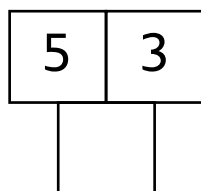
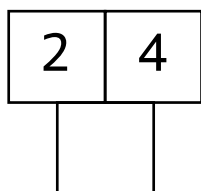
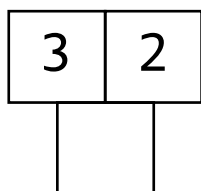
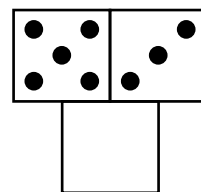
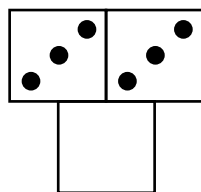
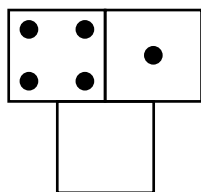
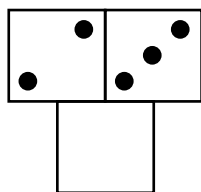
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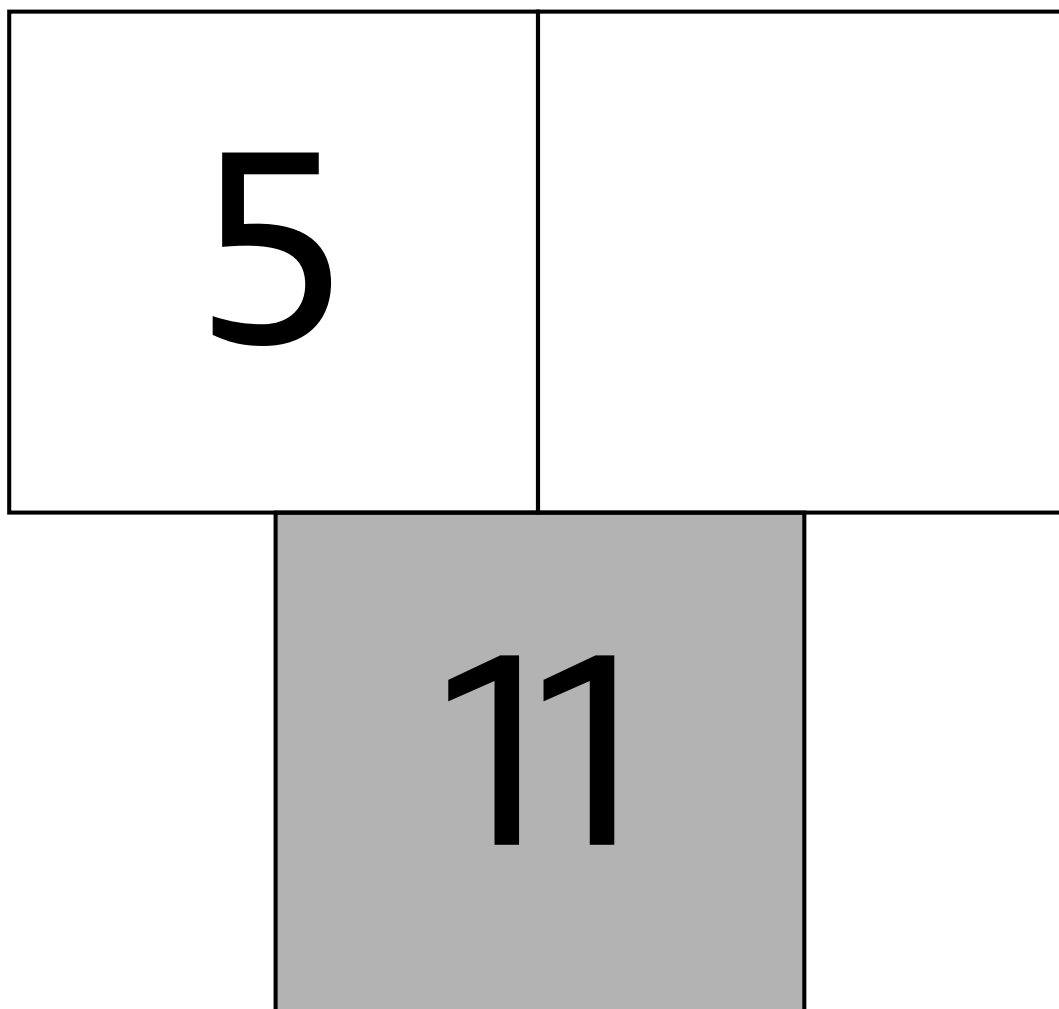


NAKUP V OBCHODĚ TAKOVÉ PARKETY, KTERÝMI POKRYJEŠ CELOU PODLAHU. HLEDEJ VÍCE ŘEŠENÍ.

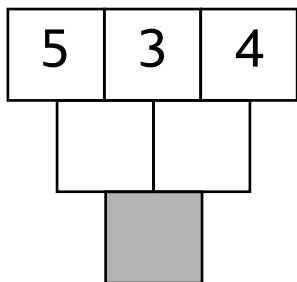




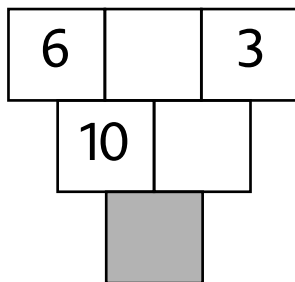




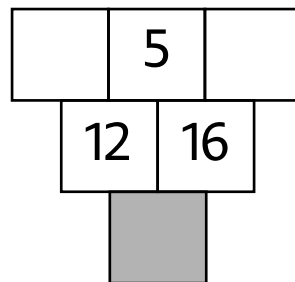
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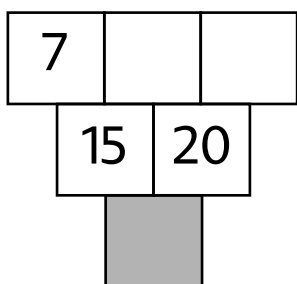
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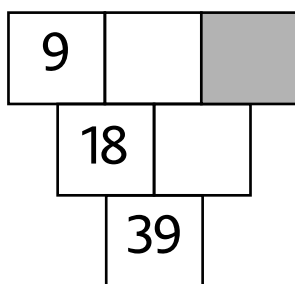
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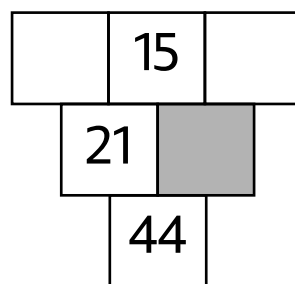
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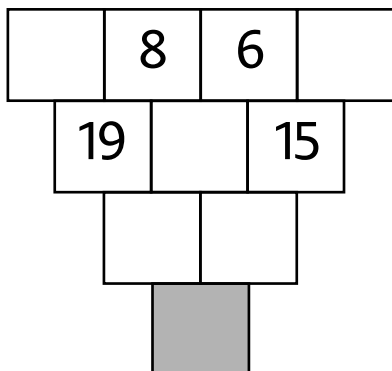
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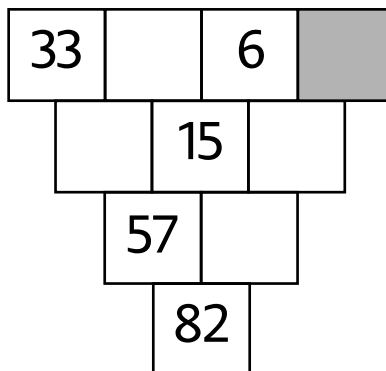
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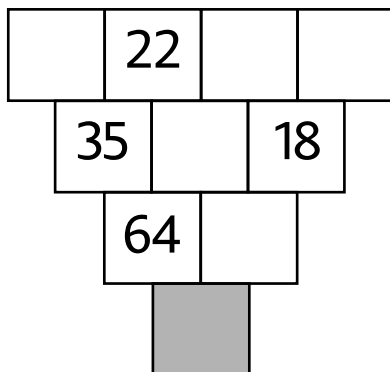
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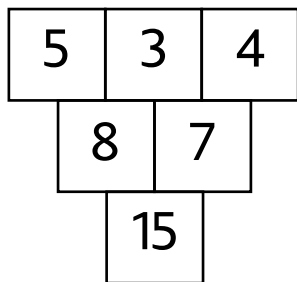
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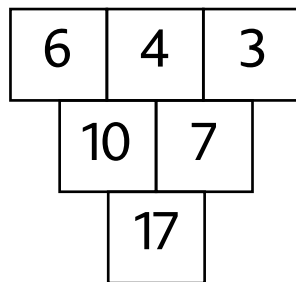
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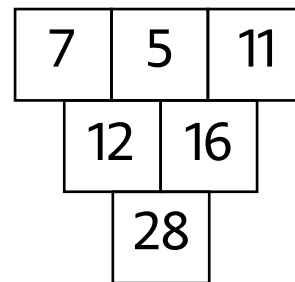
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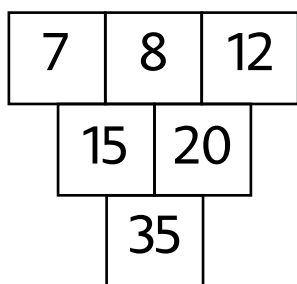
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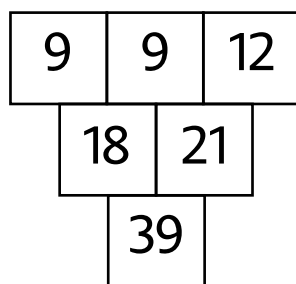
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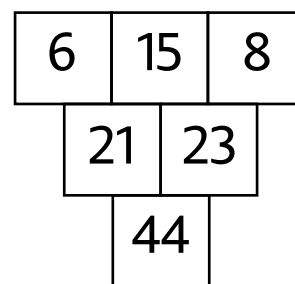
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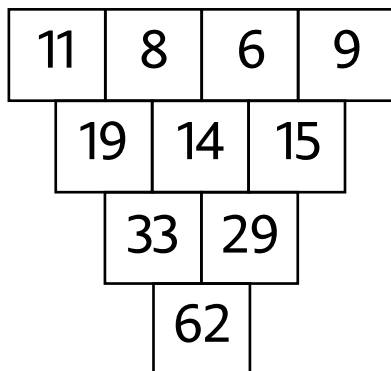
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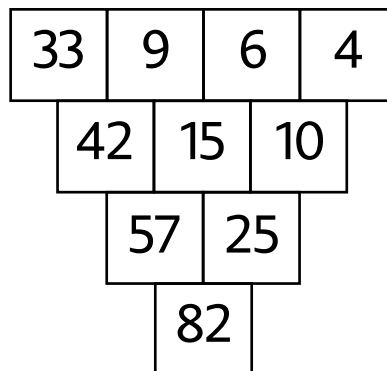
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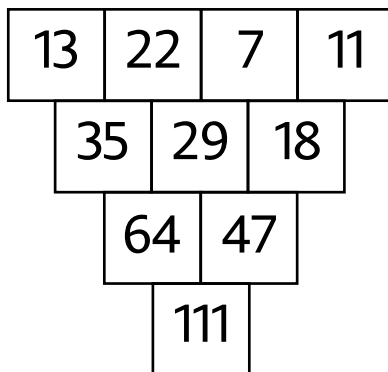
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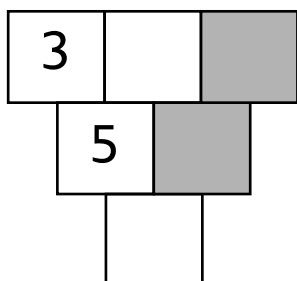
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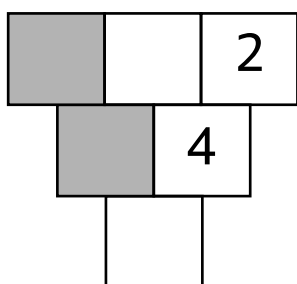
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1	15	120	13	61	132	56	36
9	19	27	2	11	29	33	62
12	3	80	19	63	27	74	110
29	17	61	111	3	56	1	9
50	33	14	16	8	10	23	63
2	5	150	16	28	80	58	74
35	44	120	58	44	77	13	8

B	P	S	A	B	O	N	T
G	U	R	D	U	S	D	CH
P	V	L	O	T	K	Z	M
CH	Ř	C	E	M	B	C	Ž
F	T	J	N	F	Y	R	I
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N	Š	E	W	I	CH	Č	Ž

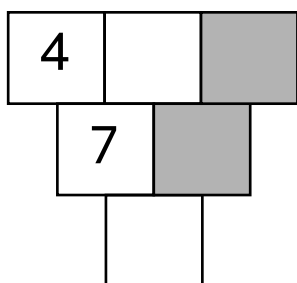
					4		
	15						
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12							
	17		111				
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35							



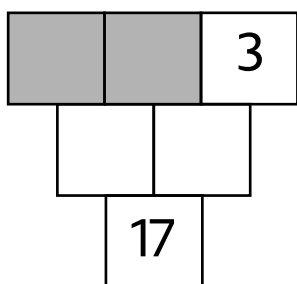
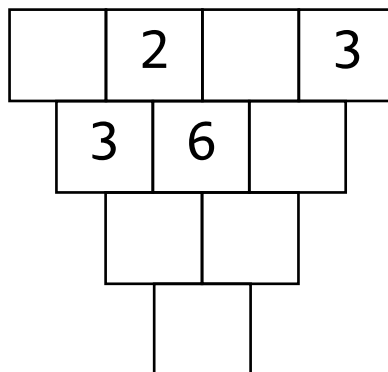
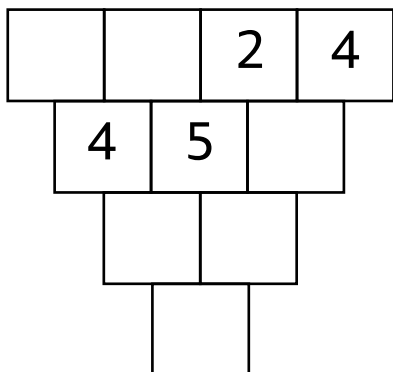
$$\square + \square = 4$$



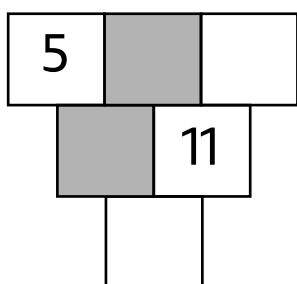
$$\square + \square = 4$$



$$\square + \square = 7$$

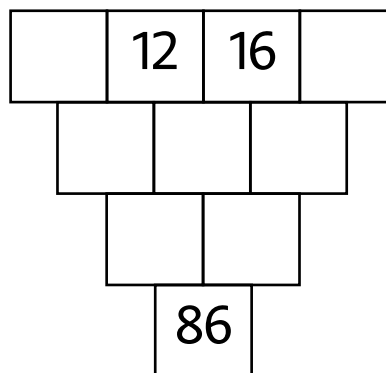
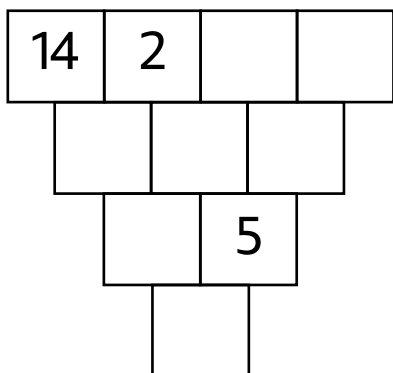


$$\square + \square = 10$$

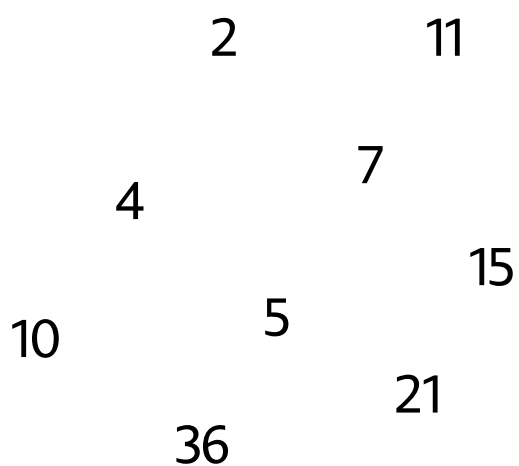
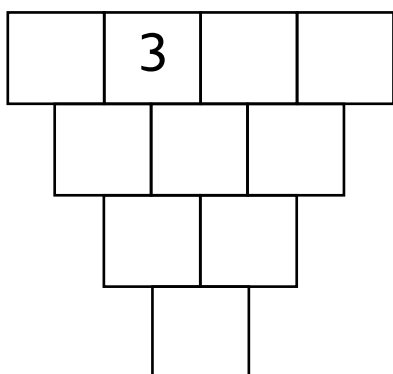


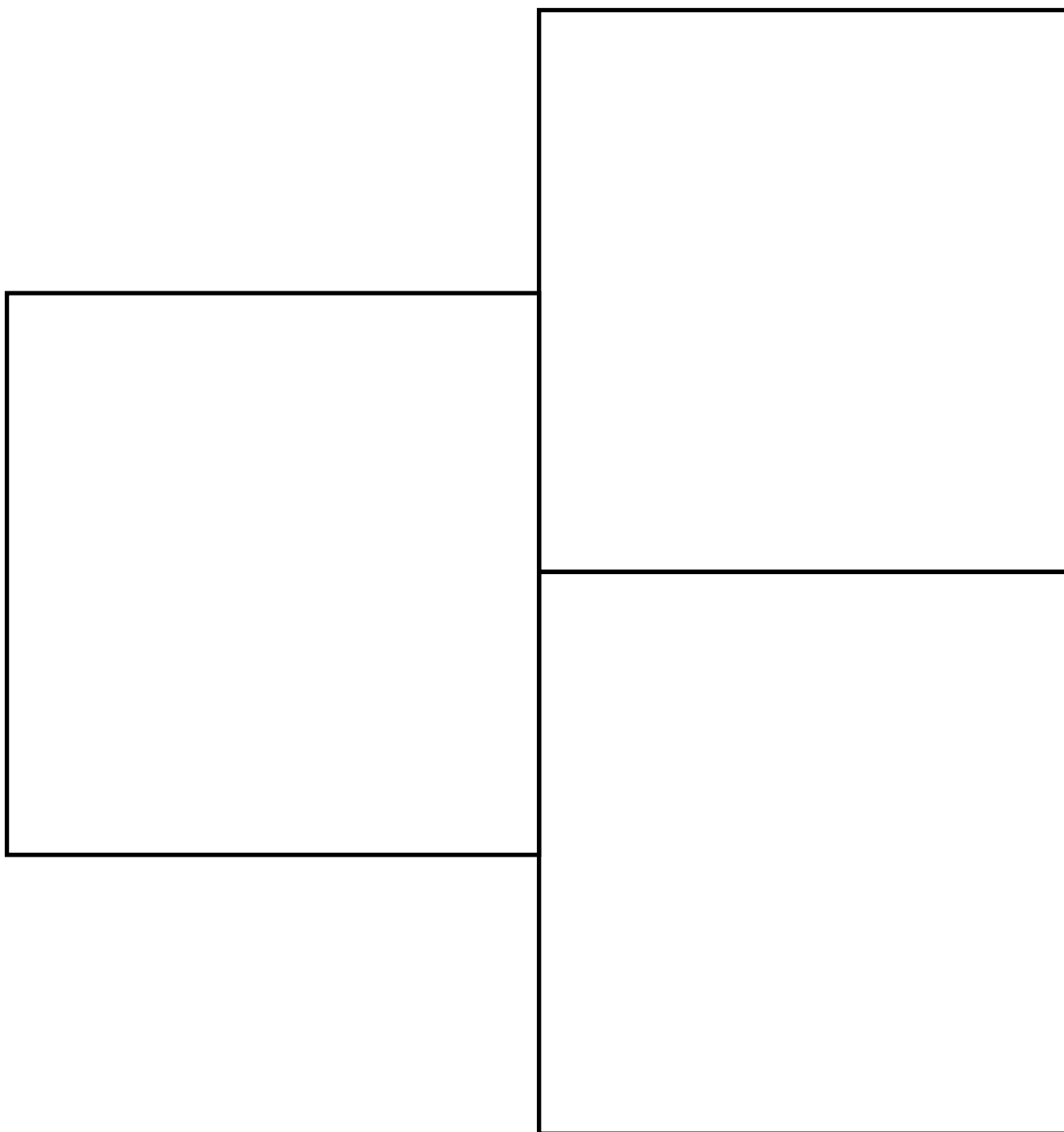
$$\square + \square = 19$$

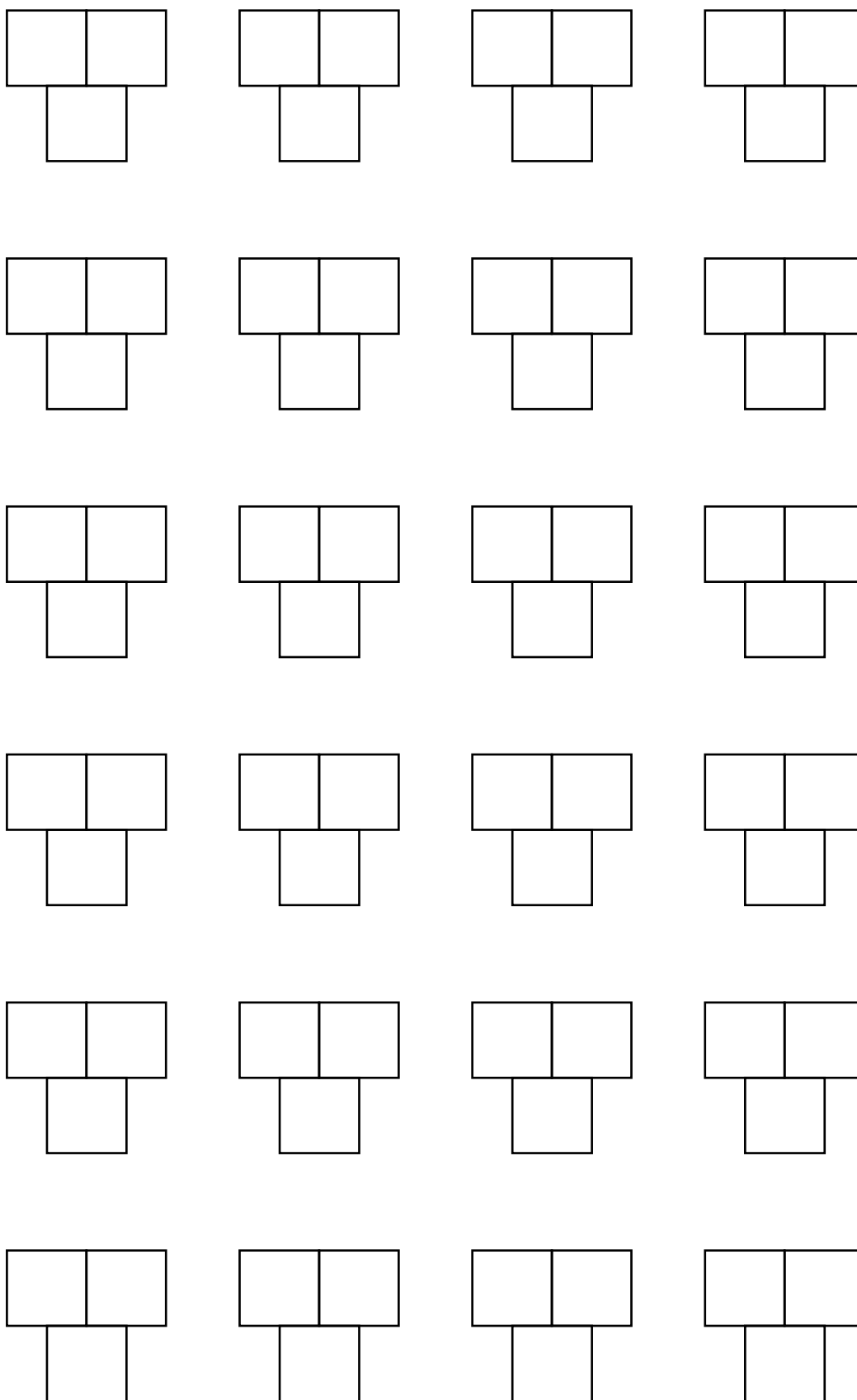
Najdi všechna řešení.



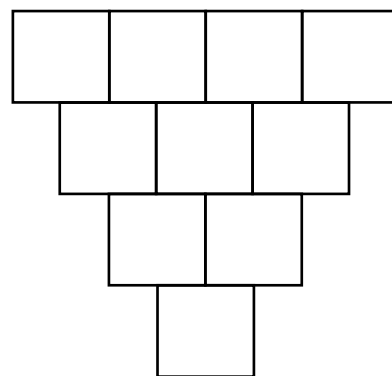
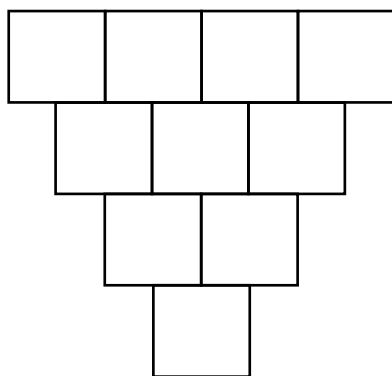
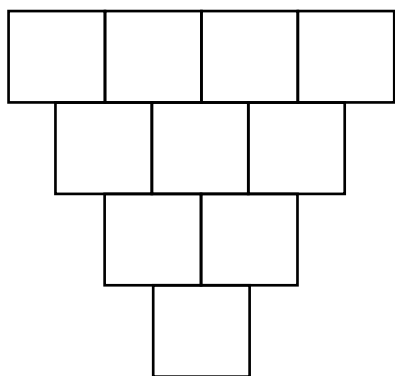
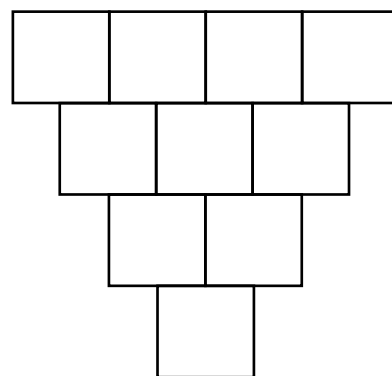
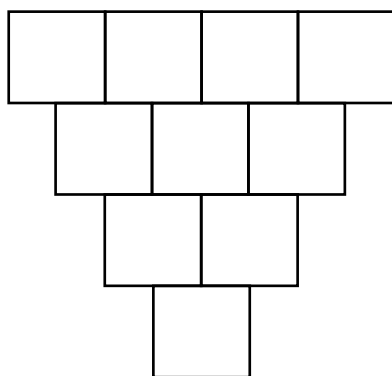
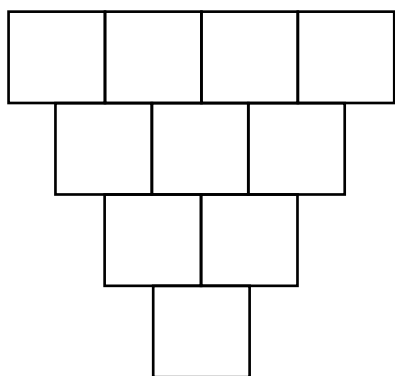
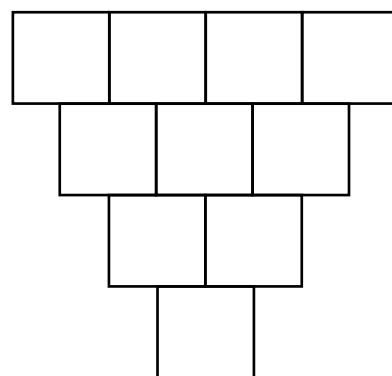
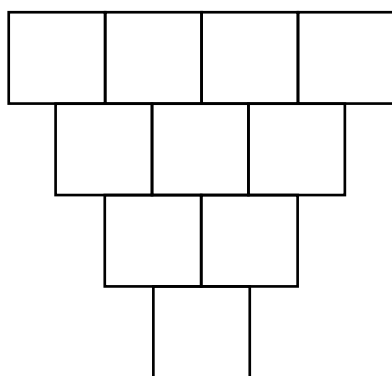
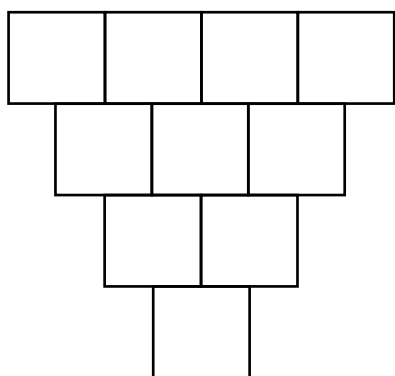
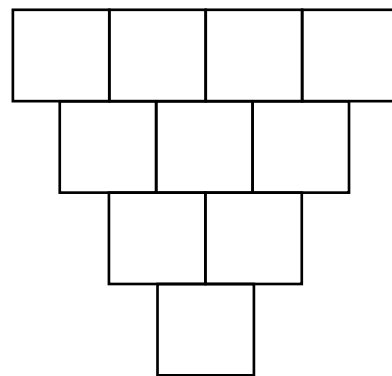
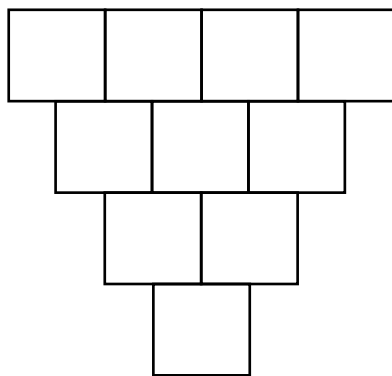
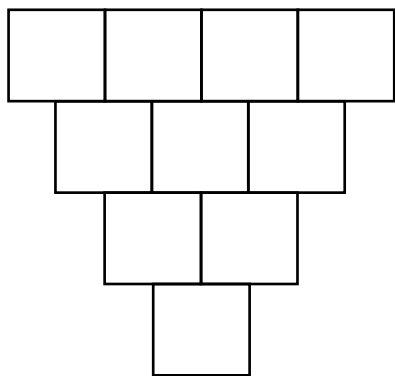
Vrať čísla zpět do pyramidy.

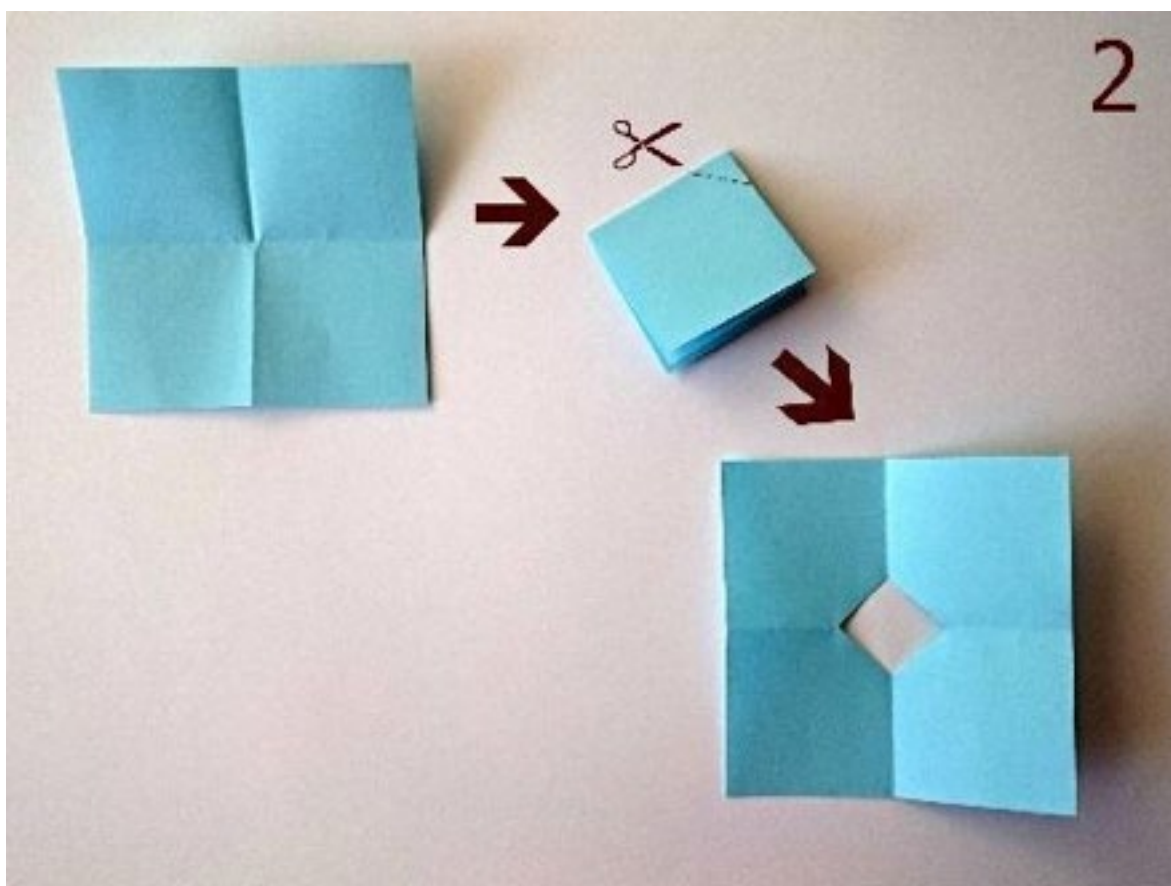
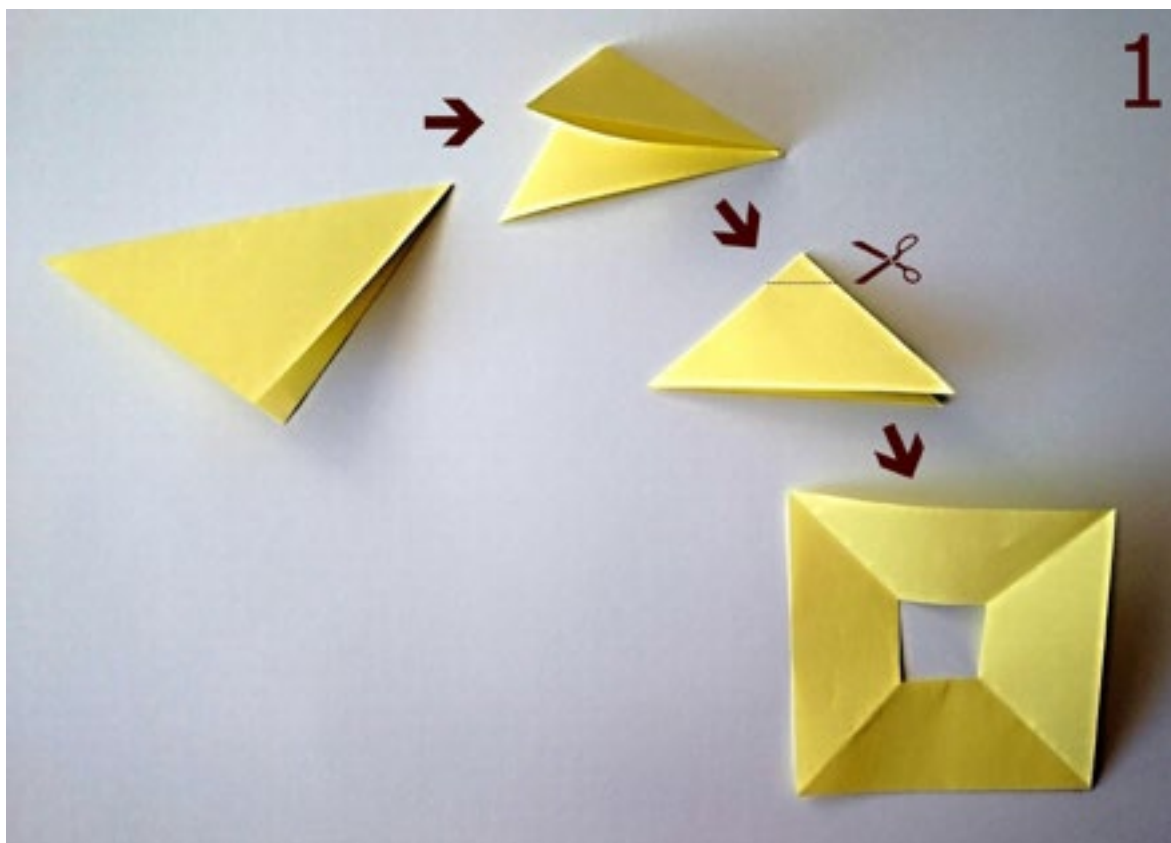


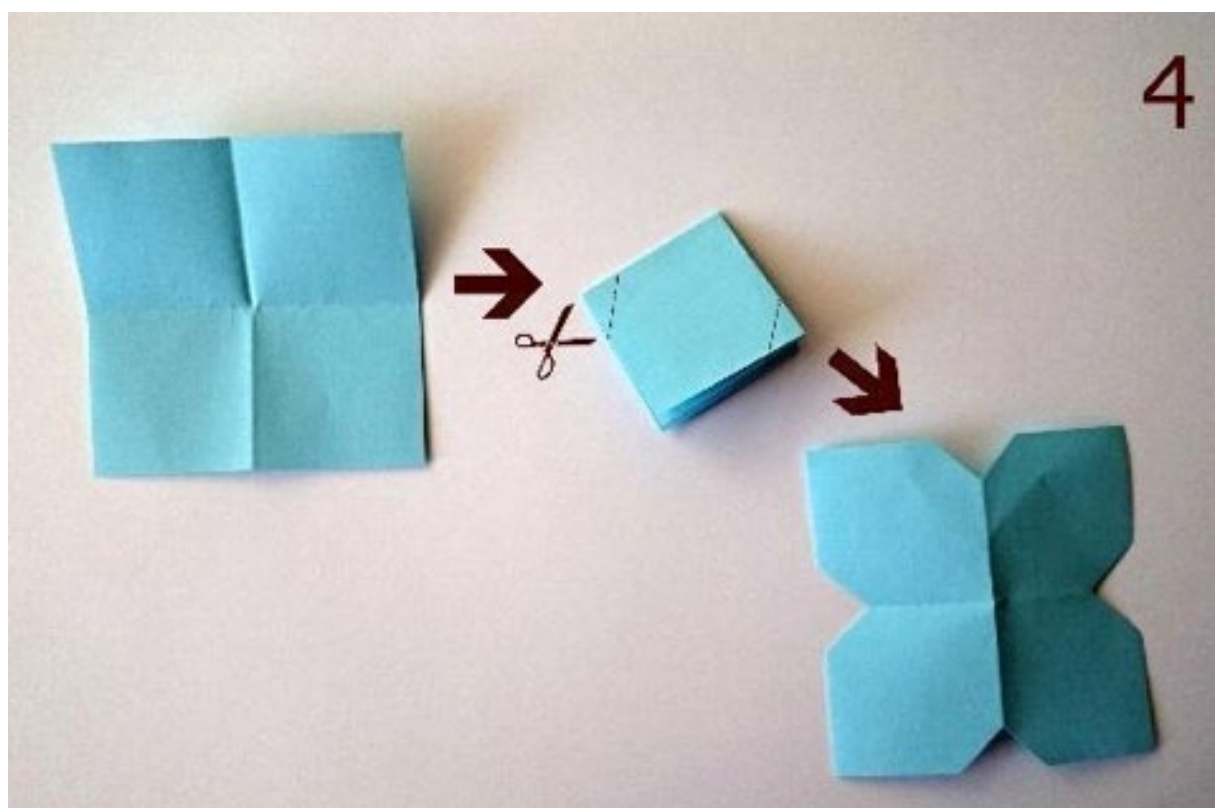
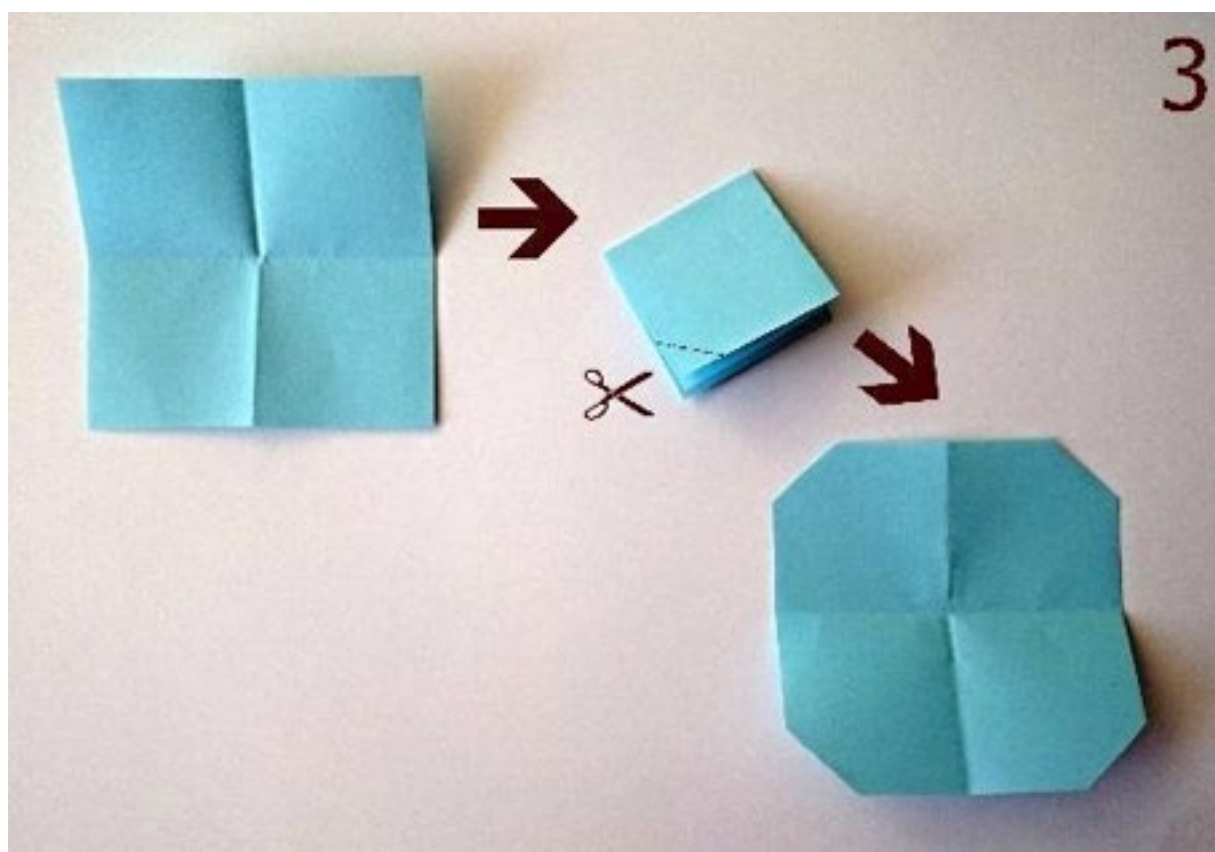


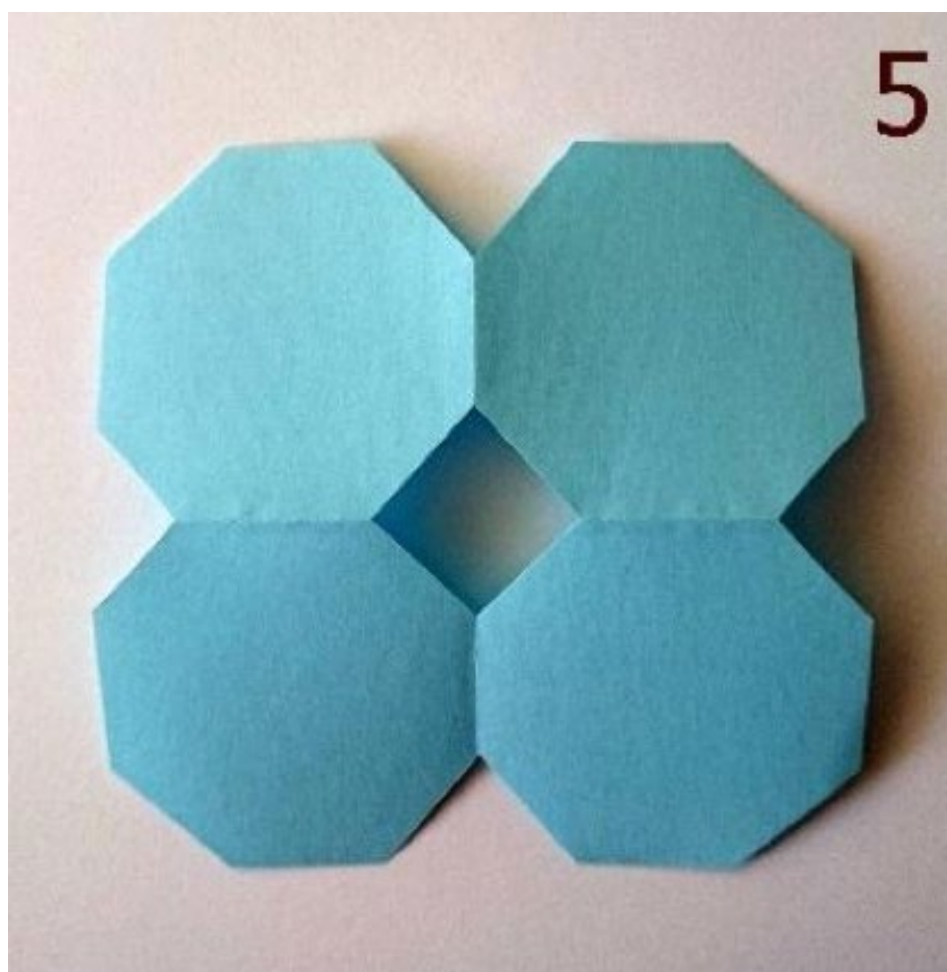
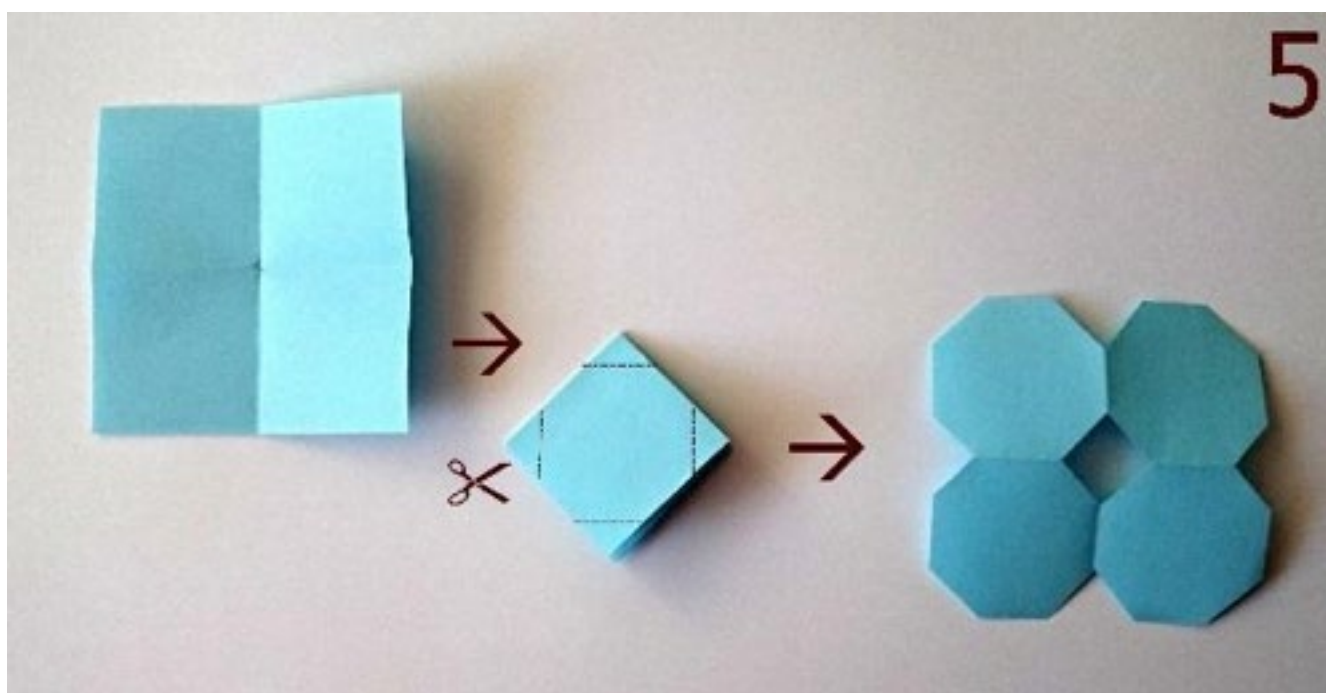


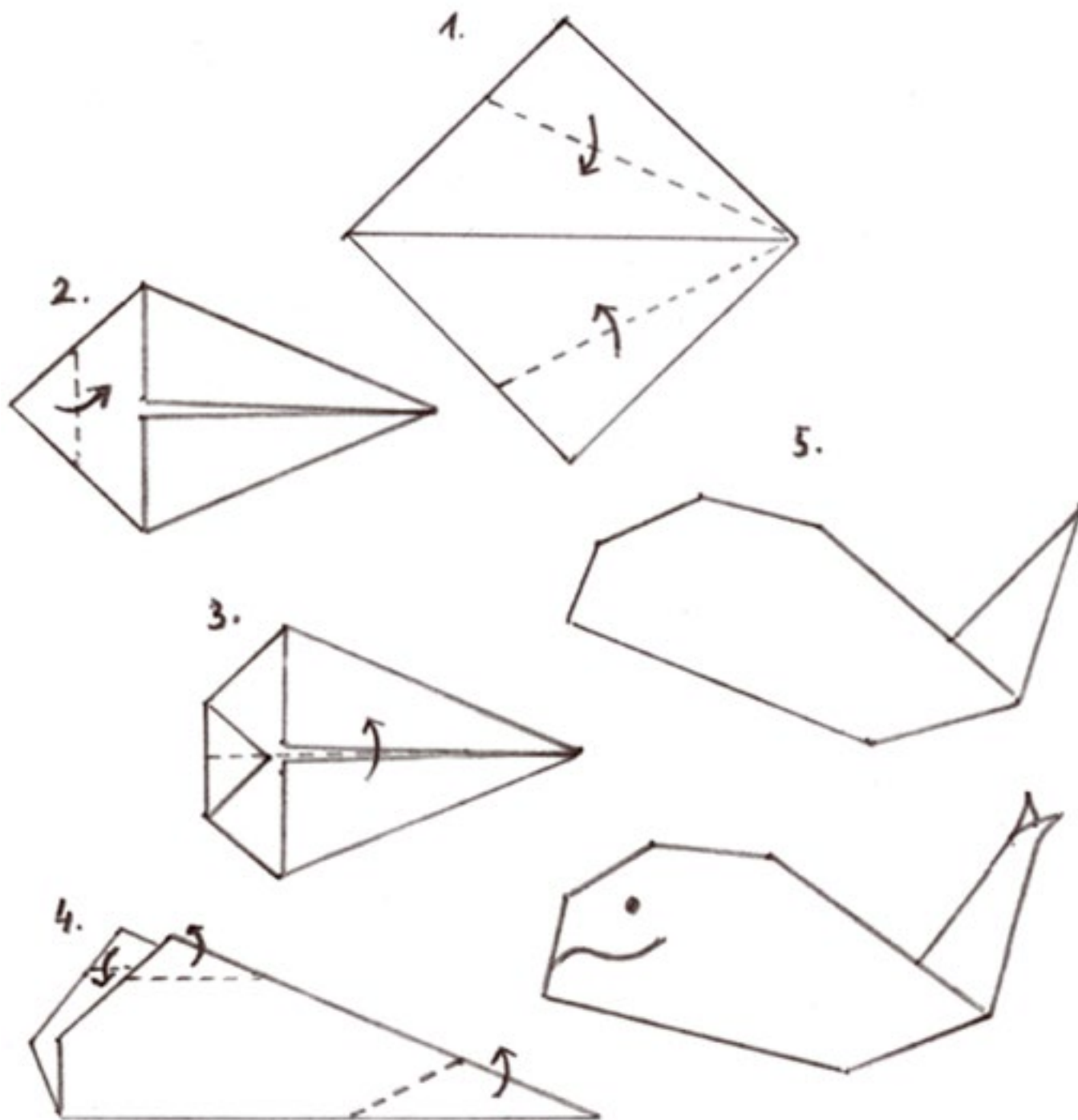
08 Součtové trojúhelníky – Prázdné pyramidy 4p

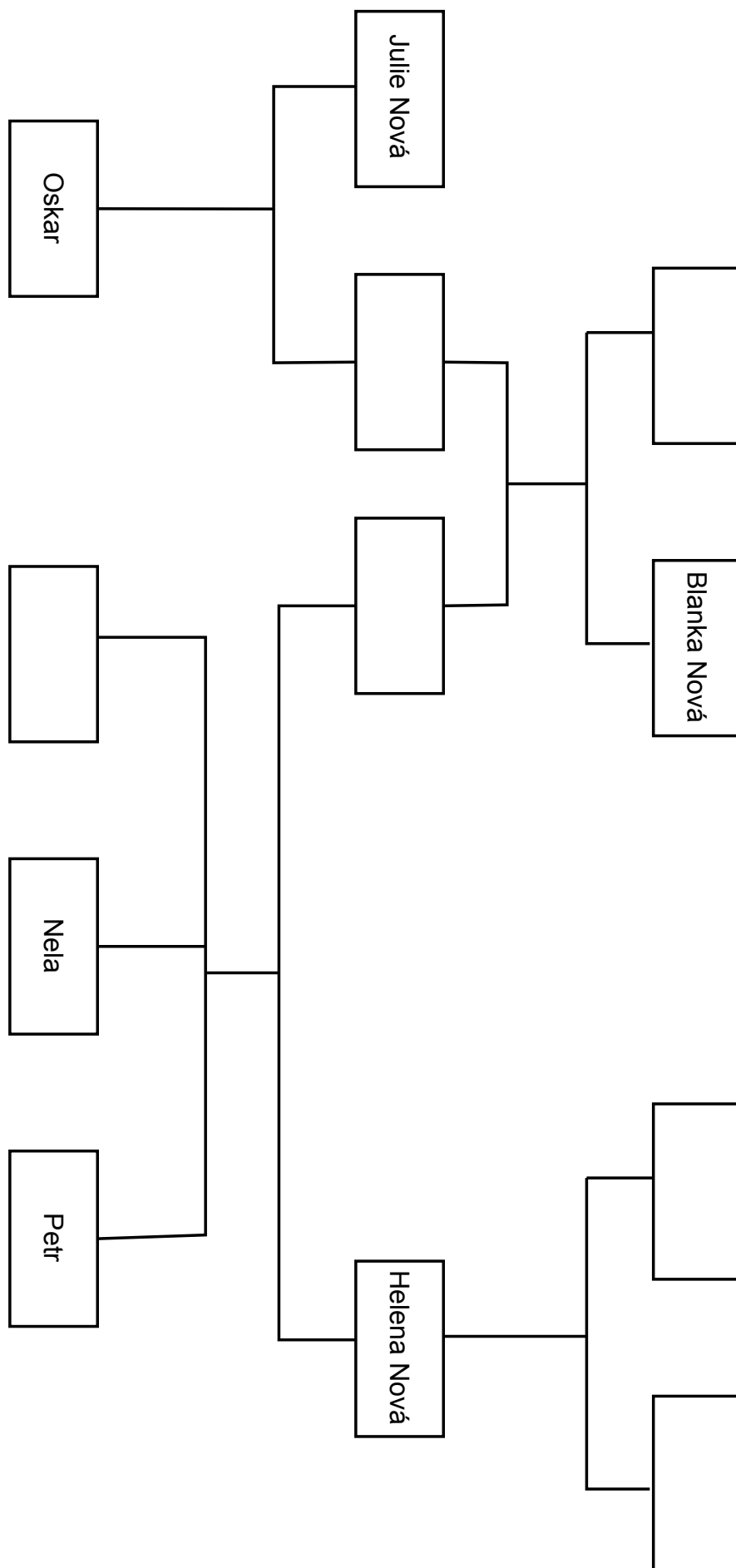








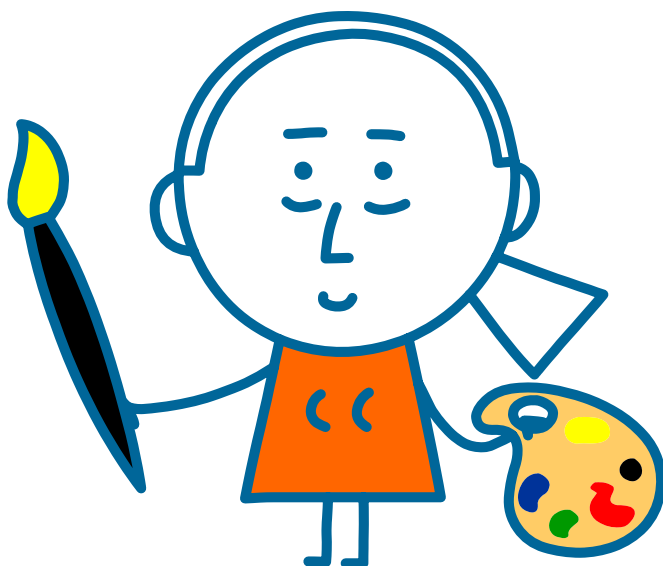




ALEŠ NOVÝ



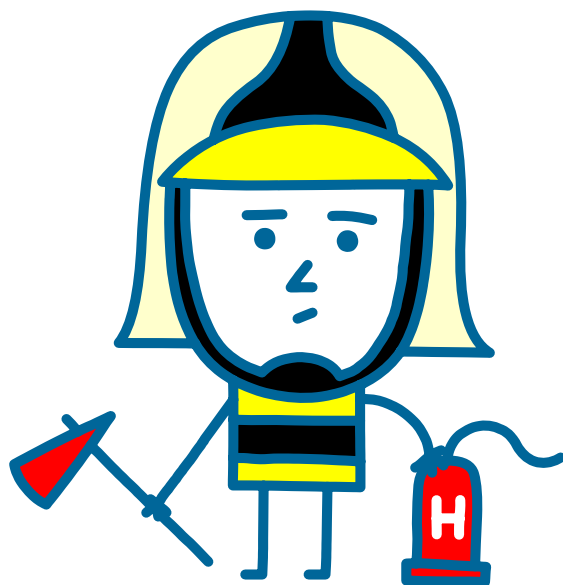
BLANKA NOVÁ



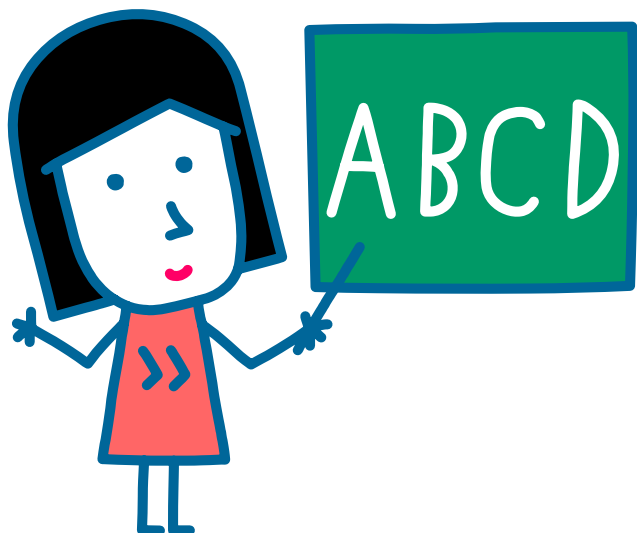
ERIK NOVÝ



FILIP NOVÝ



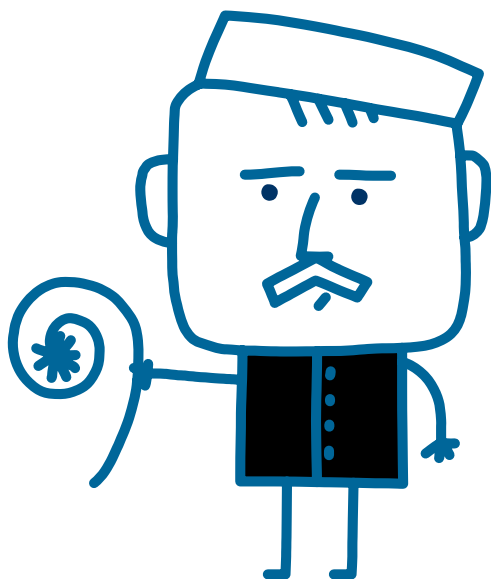
JULIE NOVÁ



HELENA NOVÁ



DANIEL ZELENÝ



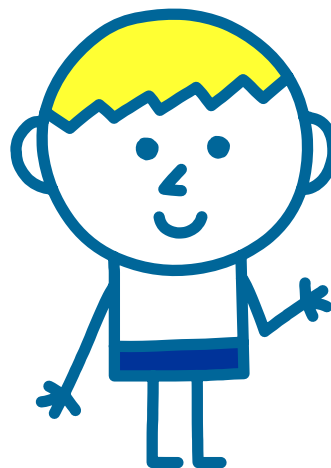
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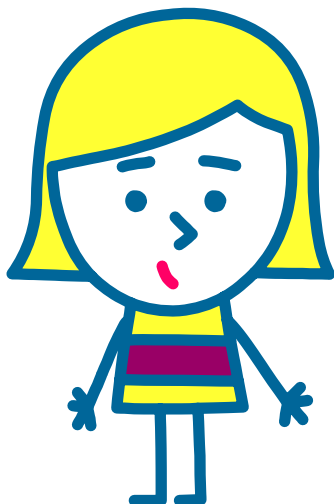
OSKAR



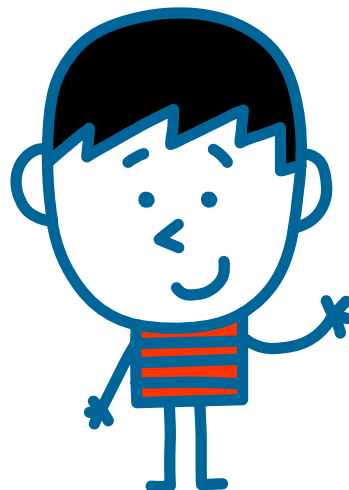
MARTIN



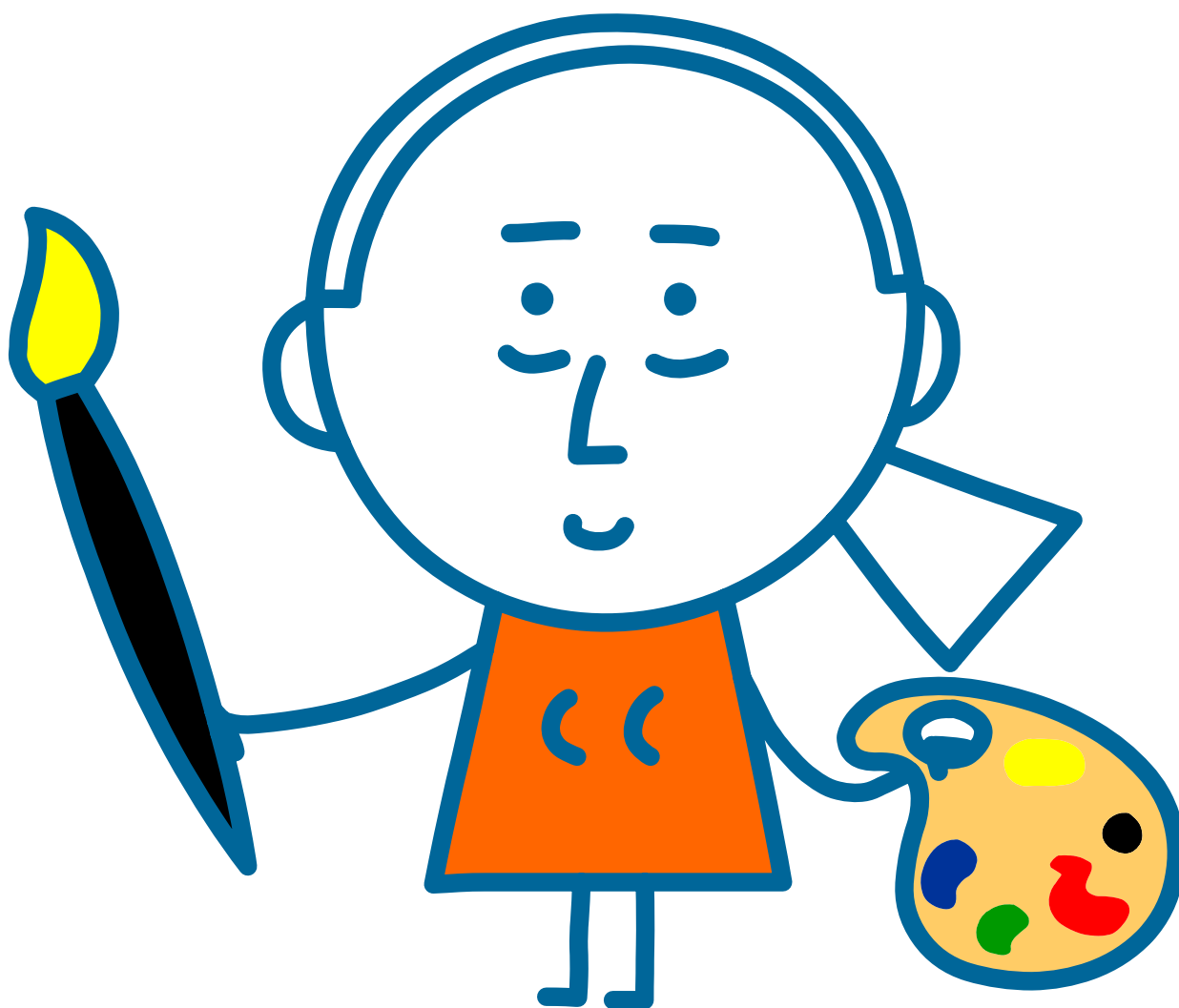
NELA



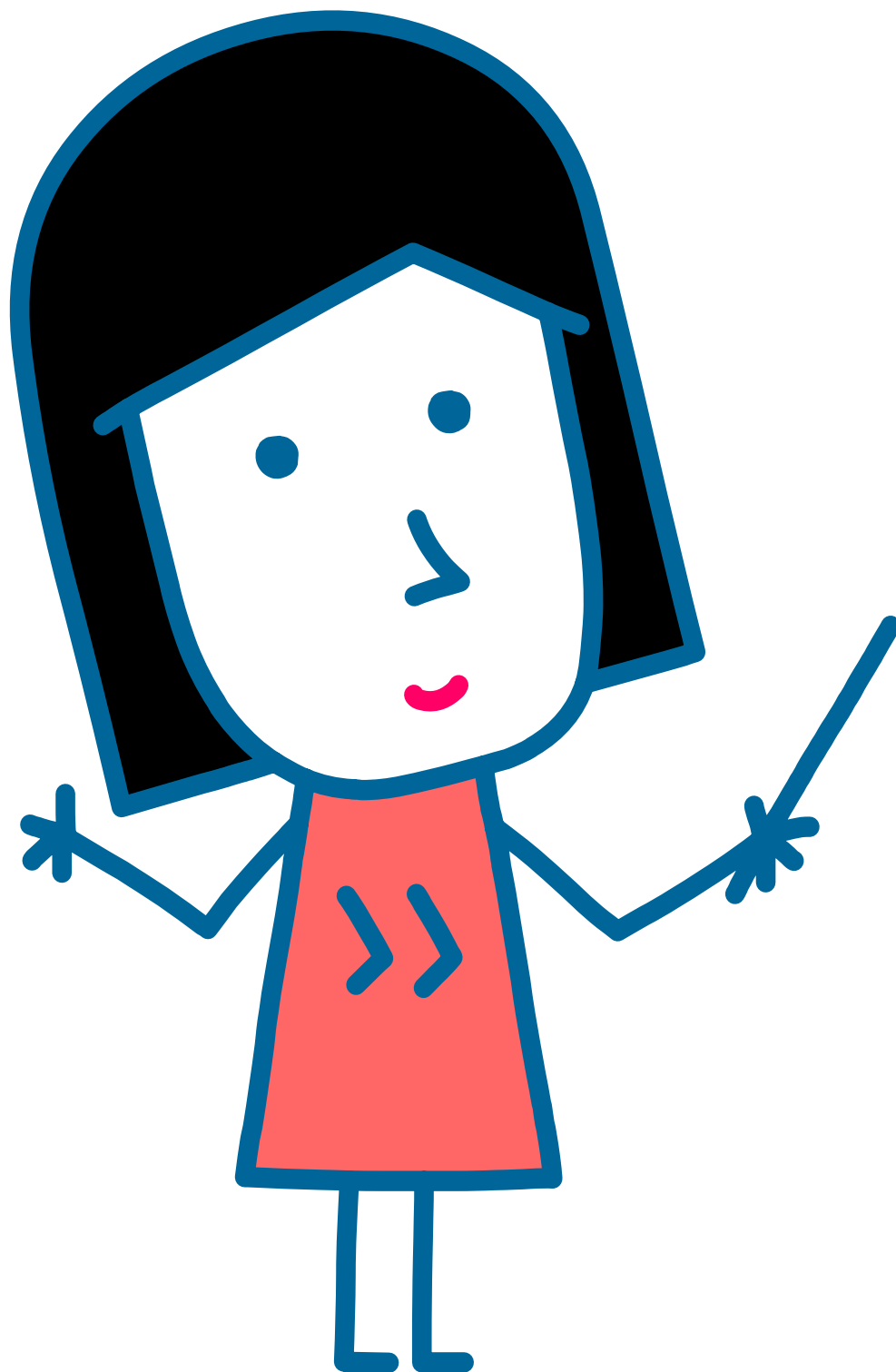
PETR





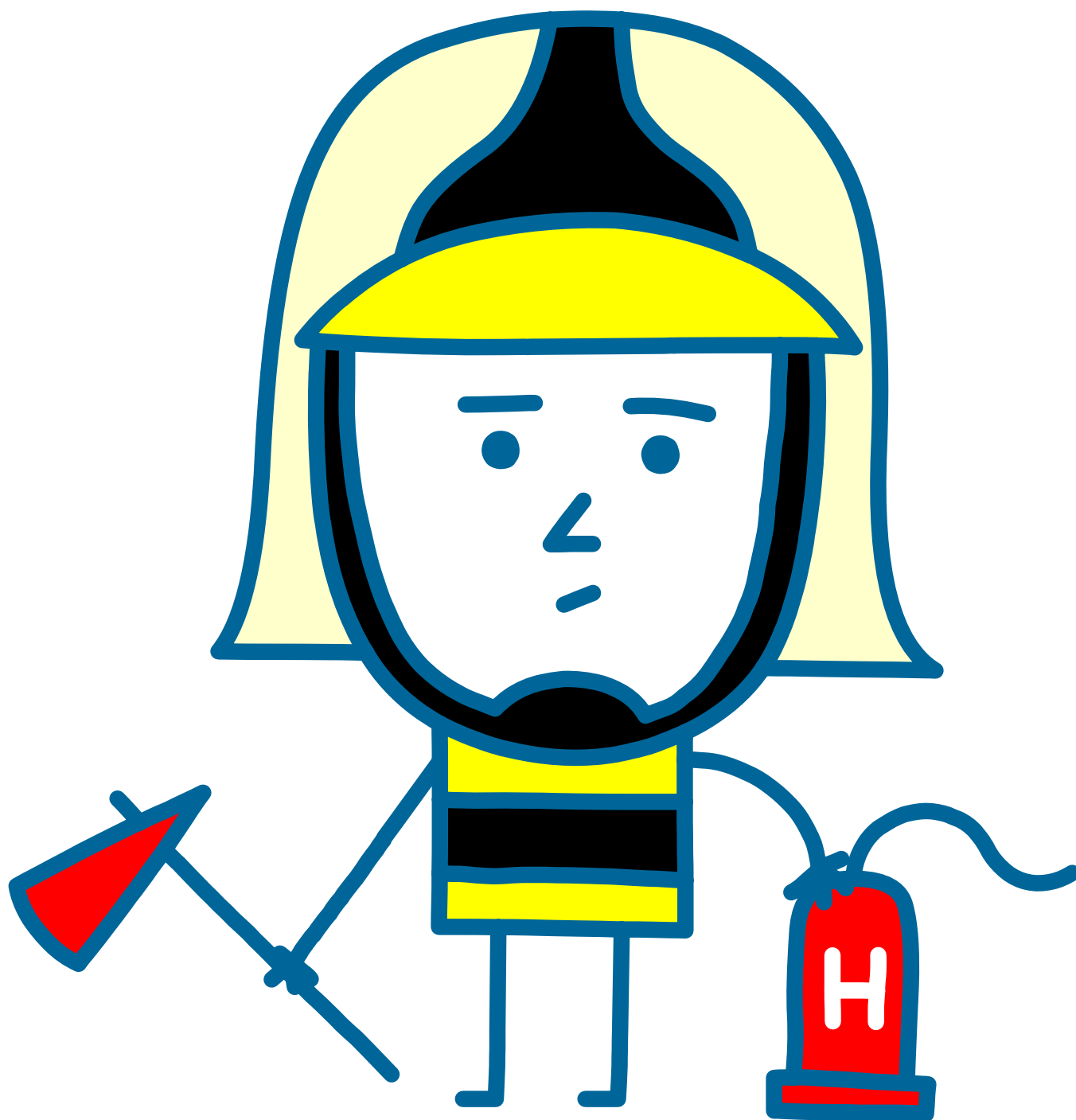




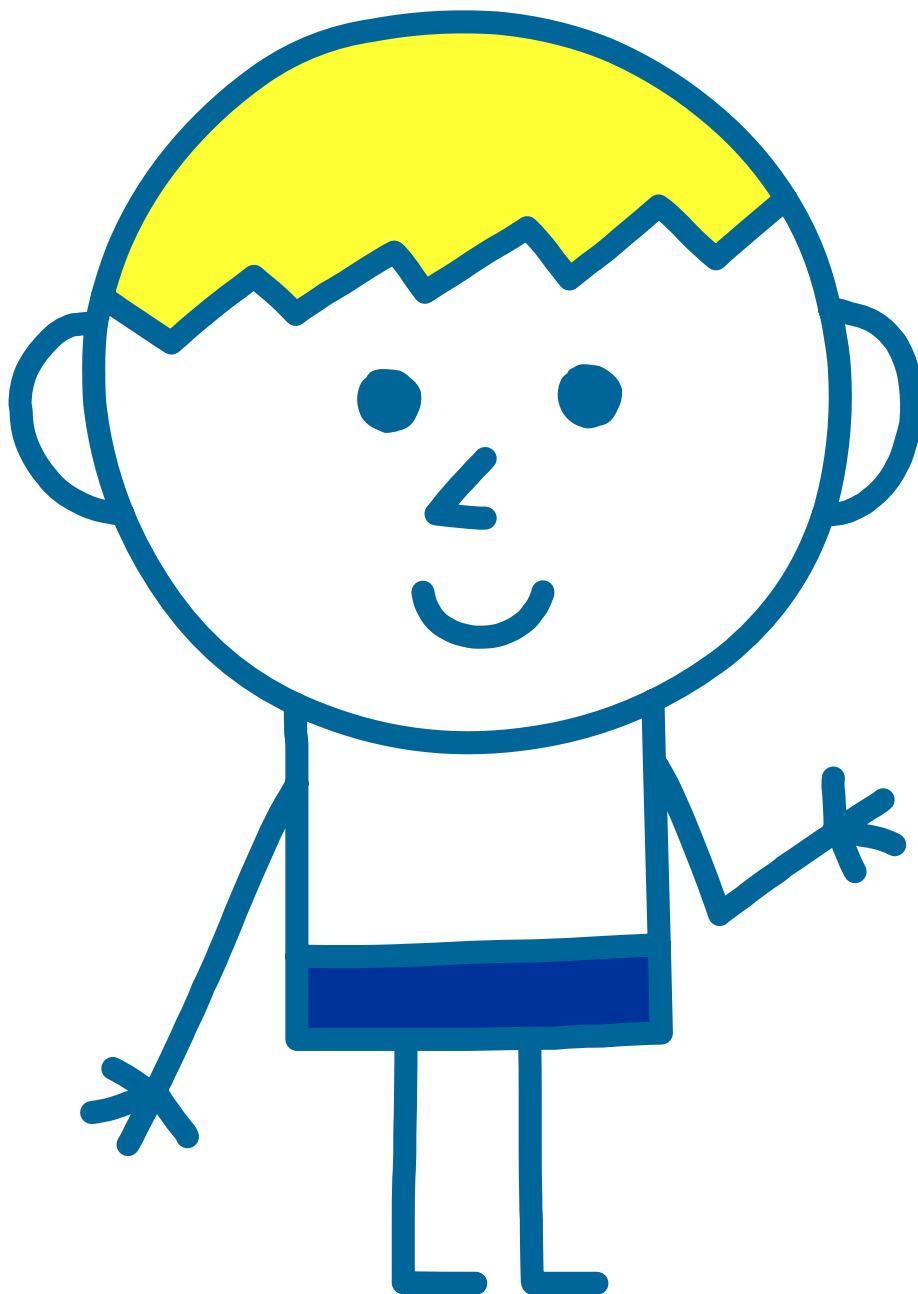


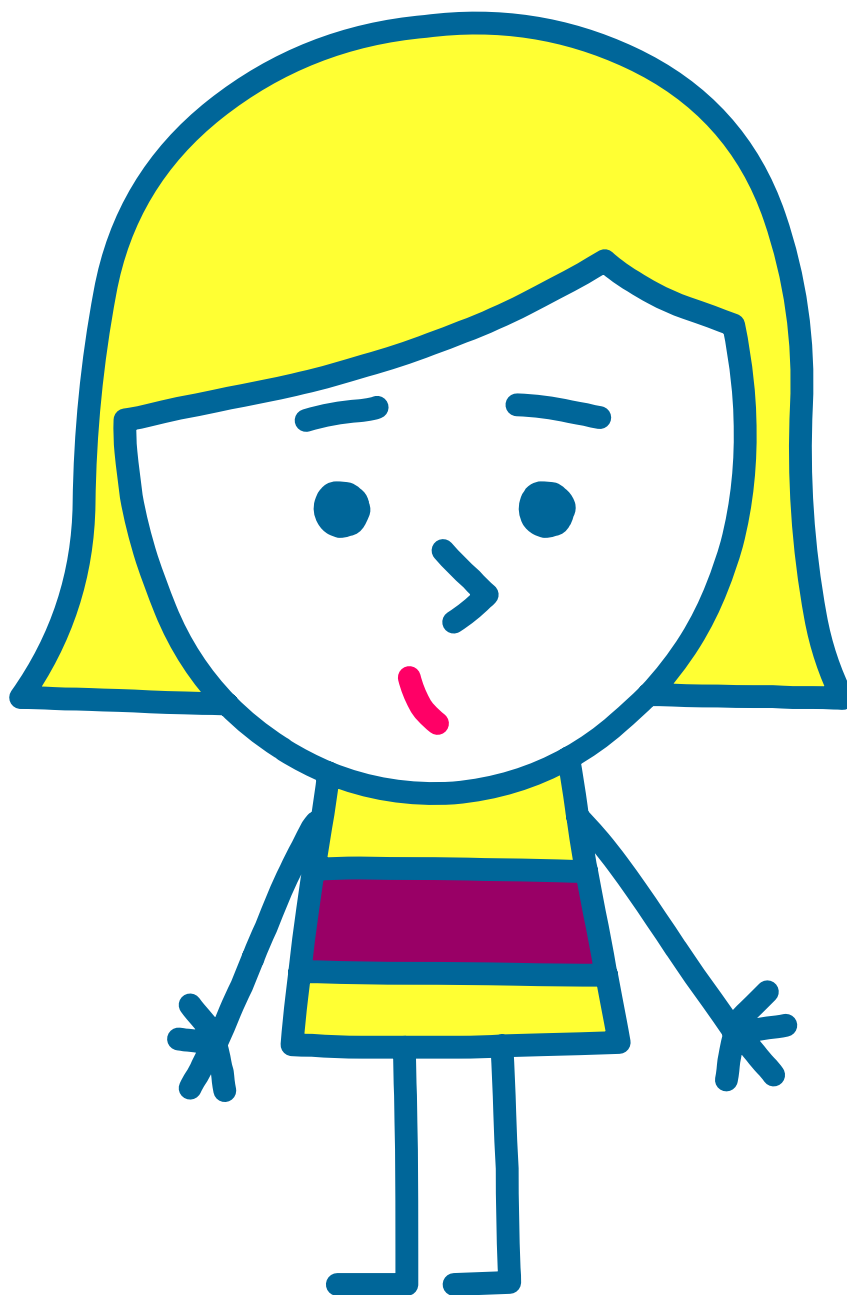


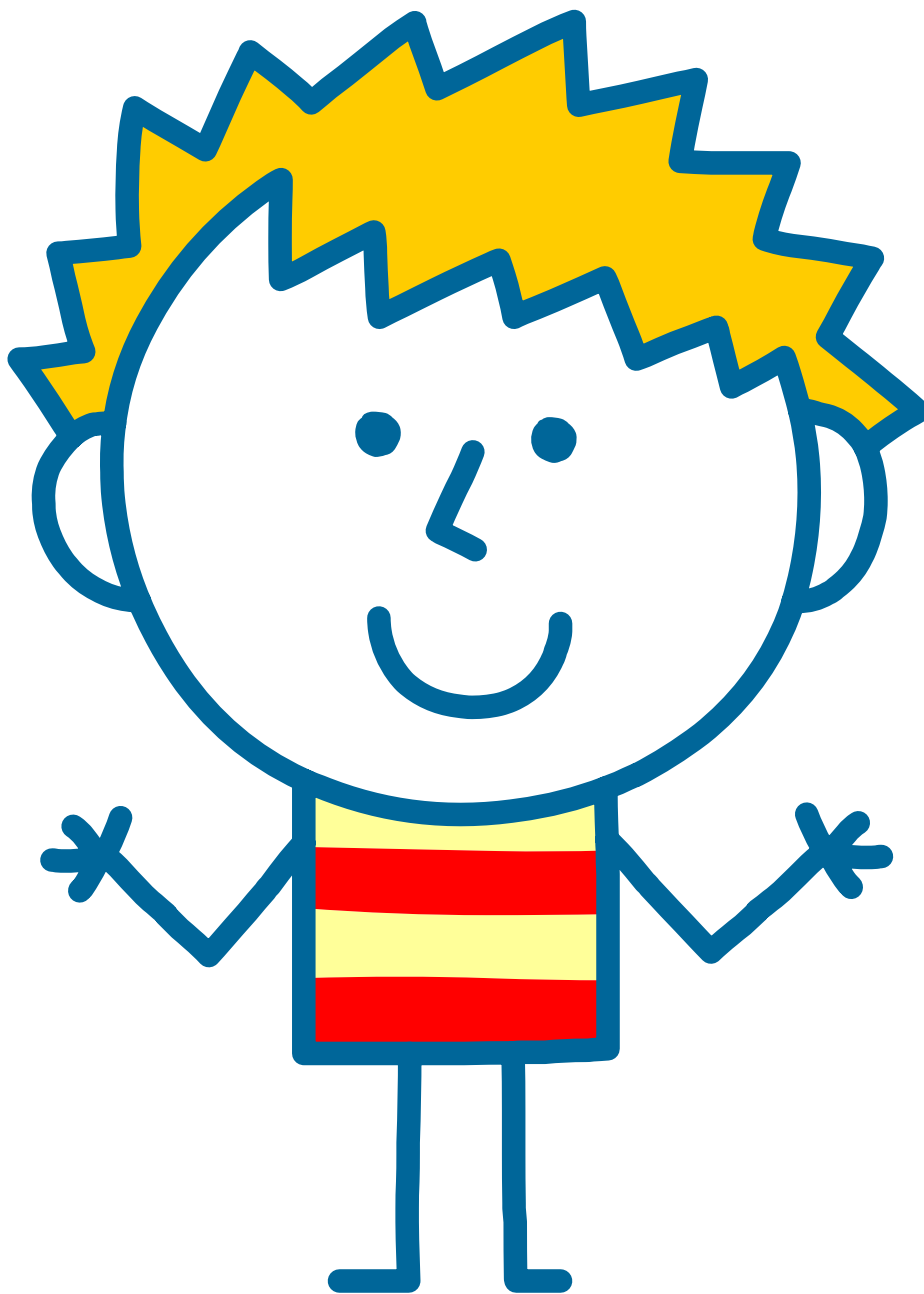


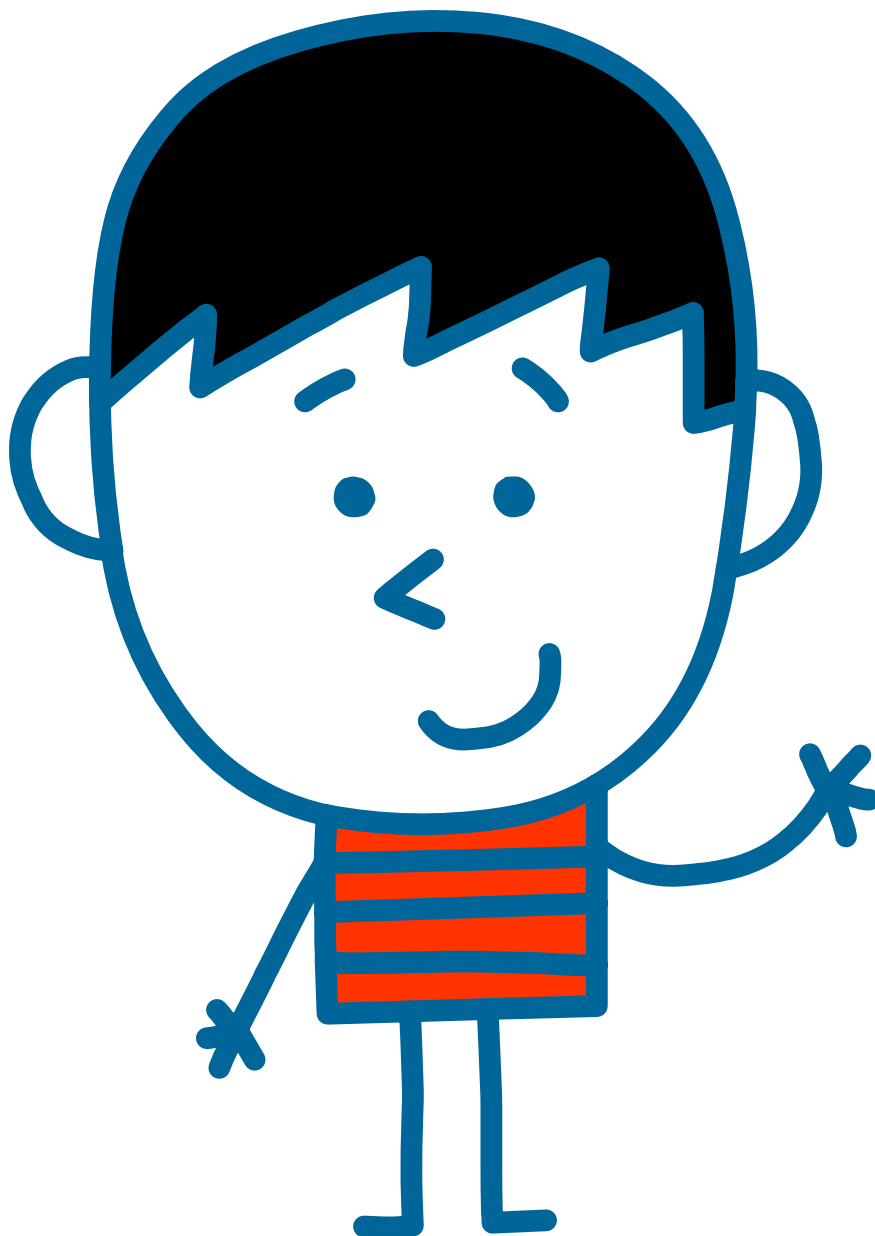












Jmenuji se Aleš. Mám manželku umělkyni, ráda maluje obrazy.
Máme spolu dva syny.

Mé jméno je Blanka. Mám manžela a dva syny Filipa a Erika.
Ráda maluji a s manželem rádi trávíme čas s našimi čtyřmi vnoučaty.

Jmenuji se Daniel Zelený. Mám manželku Elišku a jednu dceru.

Jmenuji se Eliška. Mám jednu dceru, která se jmenuje Helena
a manžela. Se svým mužem si rádi hrajeme s našimi třemi vnoučaty.

Jmenuji s Erik. Jsem starší syn Aleše a Blanky Nových.
Moje manželka je učitelka. Společně máme jednoho syna.

Jmenuji se Julie Nová. S manželem máme syna Oskara.
Mám ráda svoji práci ve škole.

Jmenuji se Filip Nový. Oženil jsem se s Helenou, se kterou mám
tři děti – Martina, Nelu a Petra.

Jmenuji se Helena. S manželem Filipem máme tři děti, dva syny
a jednu dceru. Můj manžel se živí jako hasič.

Jmenuji se Aleš. Mám manželku umělkyni, ráda maluje obrazy.
Máme spolu dva syny. Je mi 65 let.

Mé jméno je Blanka. Mám manžela a dva syny Filipa a Erika.
Ráda maluji a s manželem rádi trávíme čas s našimi čtyřmi vnoučaty.
Jsem o 5 let mladší než můj manžel.

Jmenuji se Daniel Zelený. Mám manželku Elišku a jednu dceru.
Jsem o 4 roky starší než moje žena.

Jmenuji se Eliška. Mám manžela a jednu dceru, která se jmenuje
Helena. Se svým mužem si rádi hrajeme s našimi třemi vnoučaty.
V loňském roce jsem oslavila 60. narozeniny.

Jmenuji se Erik. Jsem starší syn Aleše a Blanky Nových.
Moje manželka je učitelka. Společně máme jednoho syna. Je mi 42 let.

Jmenuji se Julie Nová a jsem stejně stará jako můj manžel.
Společně máme syna Oskara. Mám ráda svoji práci ve škole.

Jmenuji se Filip Nový a za 2 roky oslavím 40. narozeniny. Oženil jsem
se s Helenou, se kterou mám tři děti – Martina, Nelu a Petra.

Jmenuji se Helena. S manželem Filipem máme tři děti, dva syny
a jednu dceru. Jsem o 3 roky mladší než můj manžel, který se živí
jako hasič.

Varianta A)

Rozhodněte, zda jsou tvrzení pravdivá:

Filip je manžel Heleny.	ANO – NE
Nela nemá žádného sourozence.	ANO – NE
Daniel a Blanka jsou manželé.	ANO – NE
Erik a Filip jsou bratři.	ANO – NE
Petr má dva sourozence.	ANO – NE

Varianta B)

Rozhodněte, zda jsou tvrzení pravdivá:

Daniel a Eliška mají dvě děti.	ANO – NE
Filip je strýc Oskara.	ANO – NE
Helena má dvě dcery a jednoho syna.	ANO – NE
Erik, Filip a Helena jsou sourozenci.	ANO – NE
Petr je vnukem Elišky.	ANO – NE

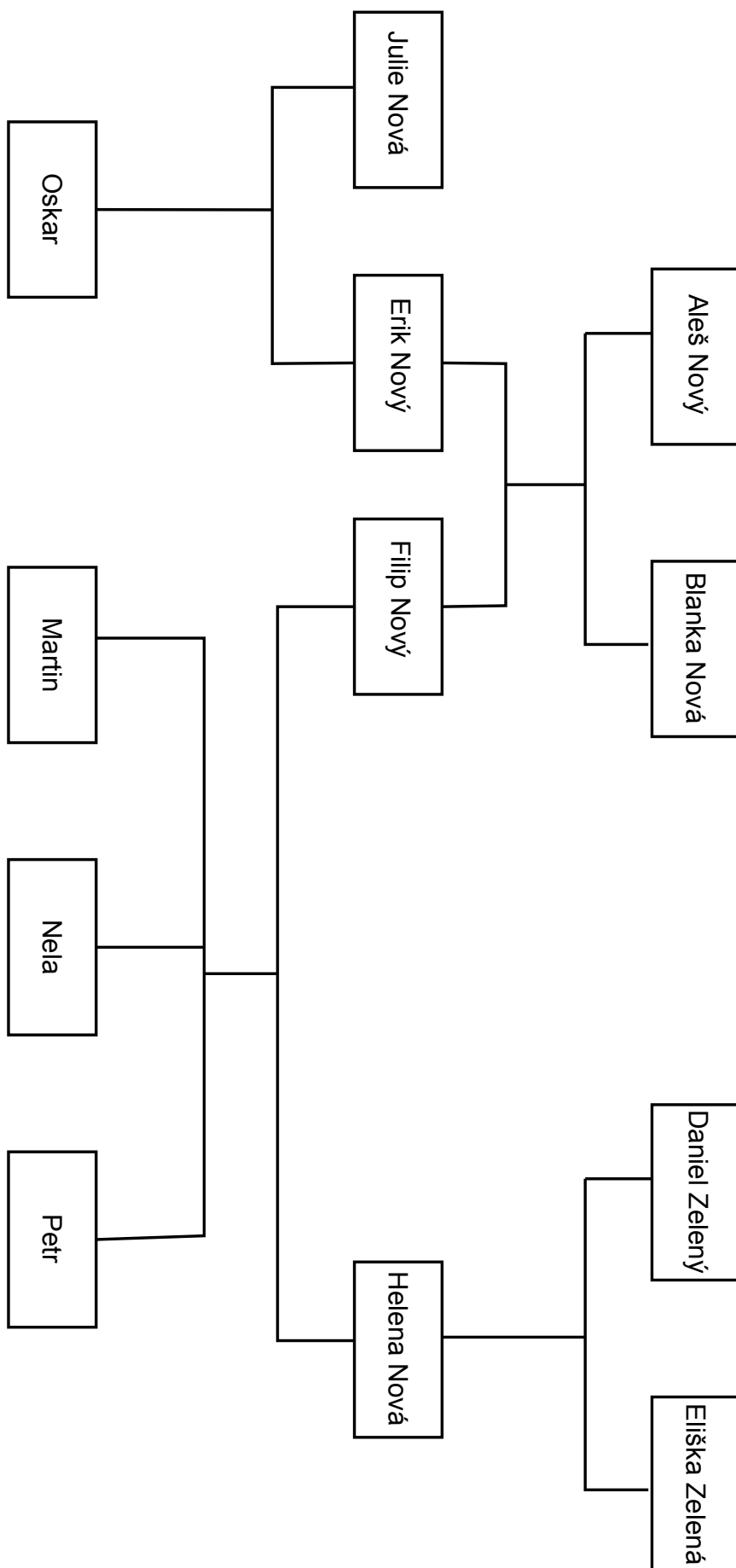
Varianta C)

Rozhodněte, zda jsou tvrzení pravdivá:

Filip má sestru Julii.	ANO – NE
Oskar má dva sourozence.	ANO – NE
Vnučkou Daniela je Nela.	ANO – NE
Oskar má dva bratrance a jednu sestřenici.	ANO – NE
Daniel má zetě Erika.	ANO – NE
Erik má dva synovce.	ANO – NE

Varianta D)

Vyber si dvě postavy z rodokmenu a pro každou z nich vymysli pravdivé nebo nepravdivé tvrzení pro kamaráda. Nech ho úlohu vyřešit.



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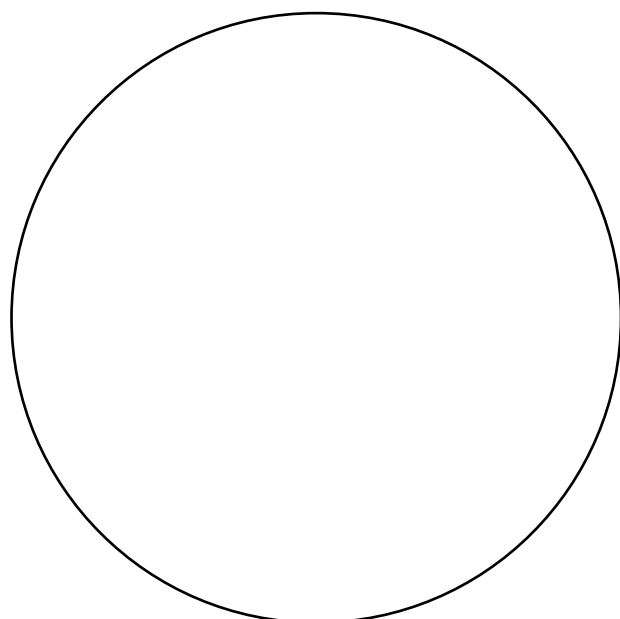
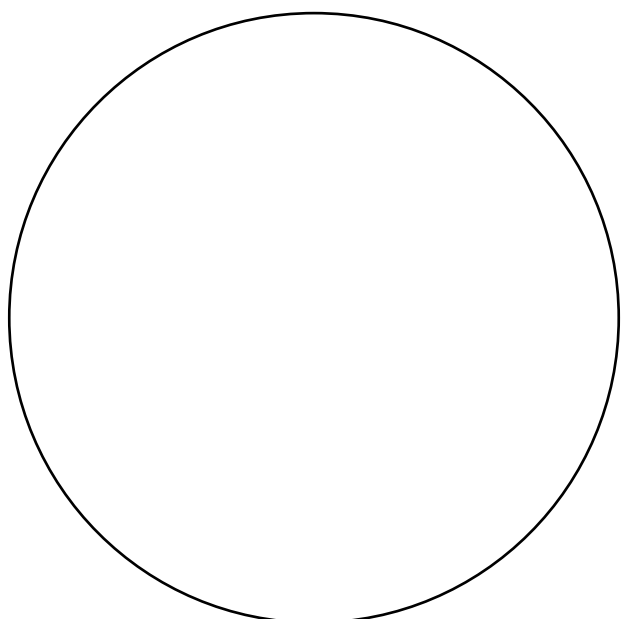
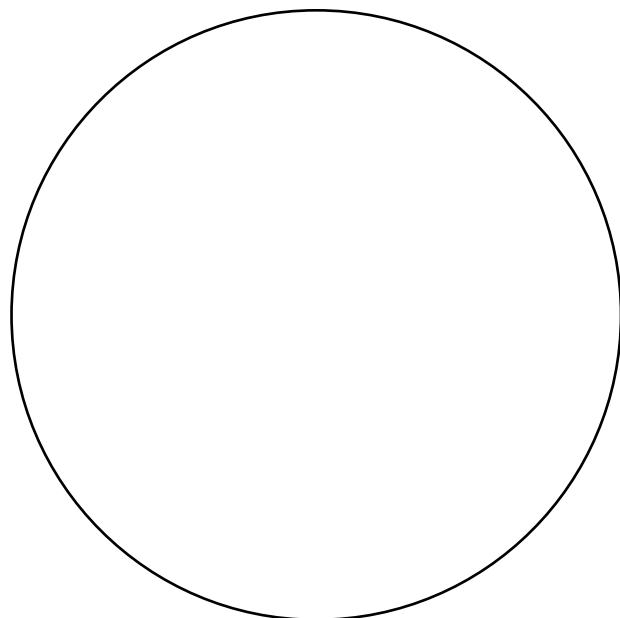
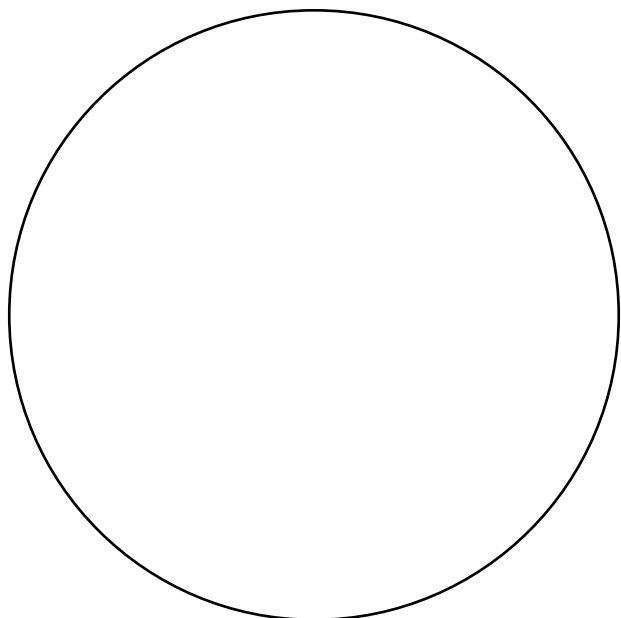
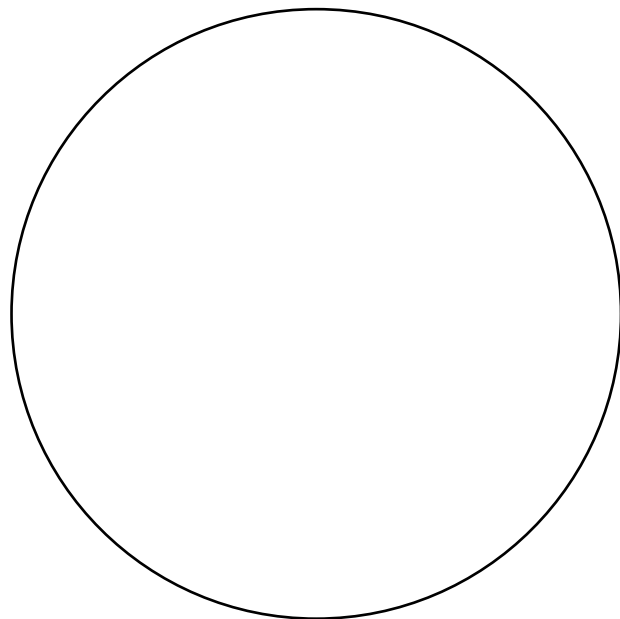
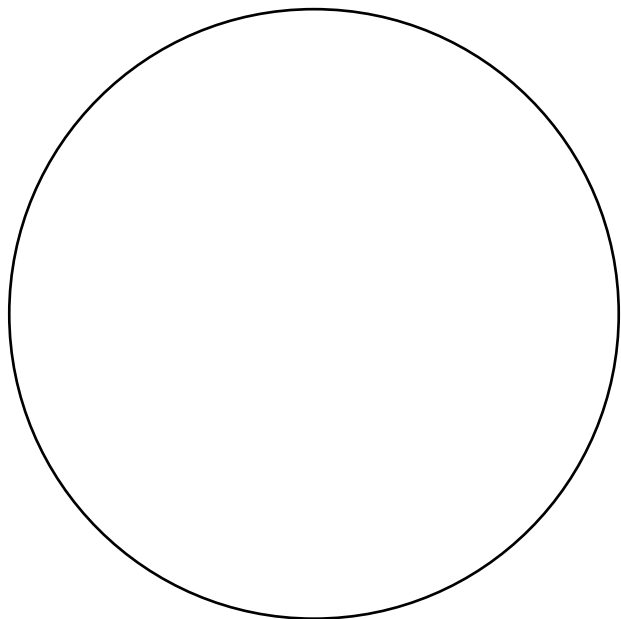
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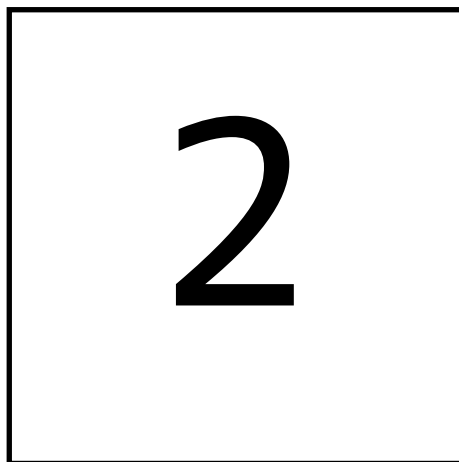
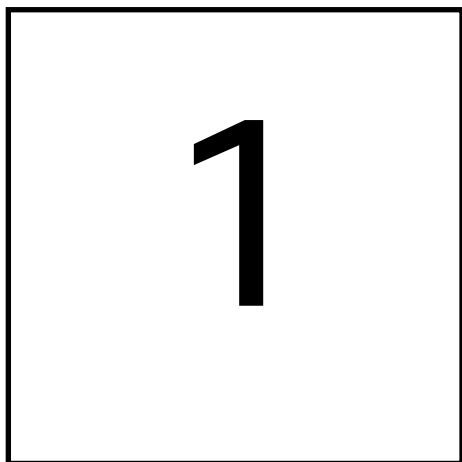
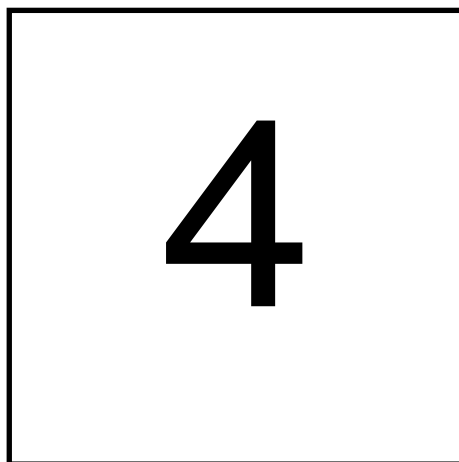
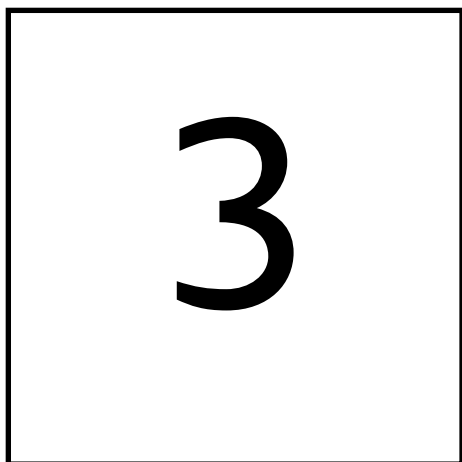
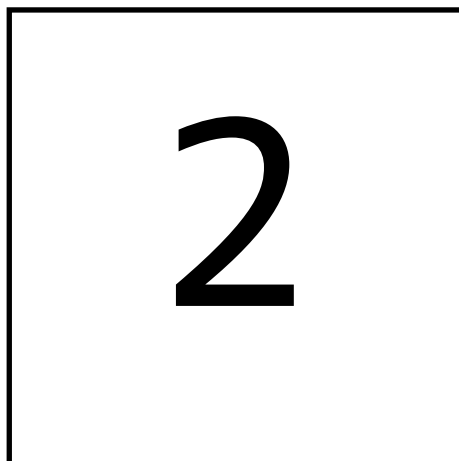
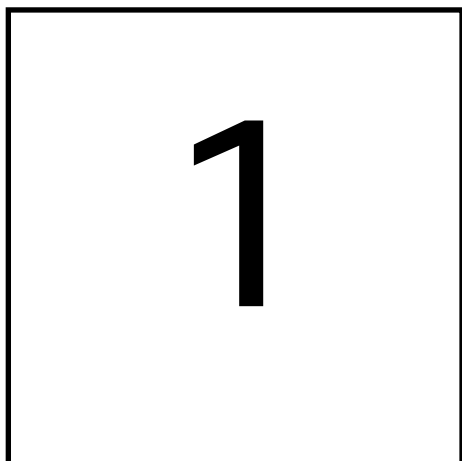
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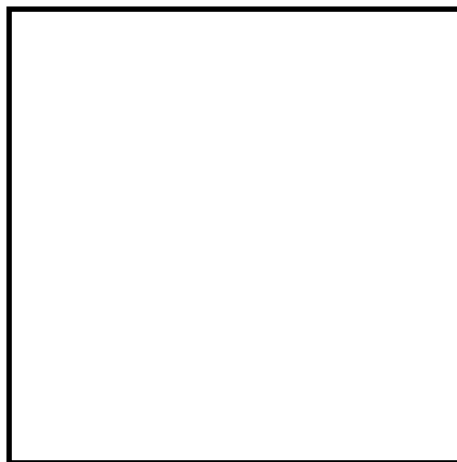
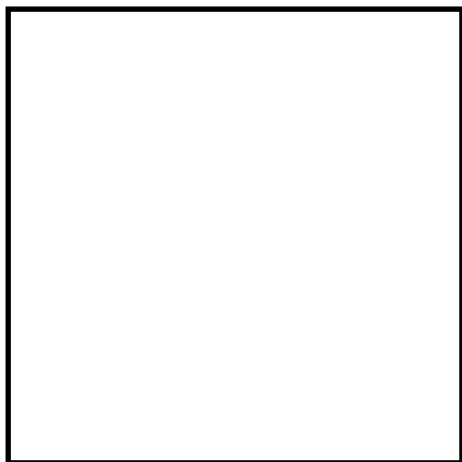
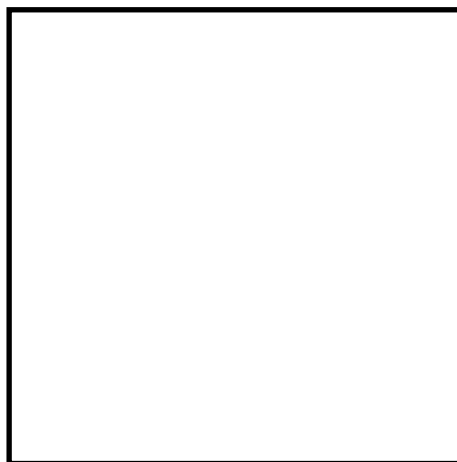
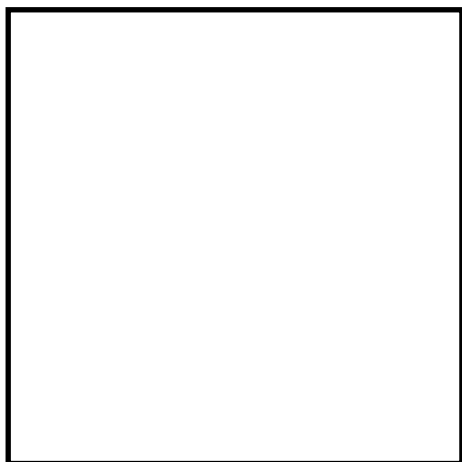
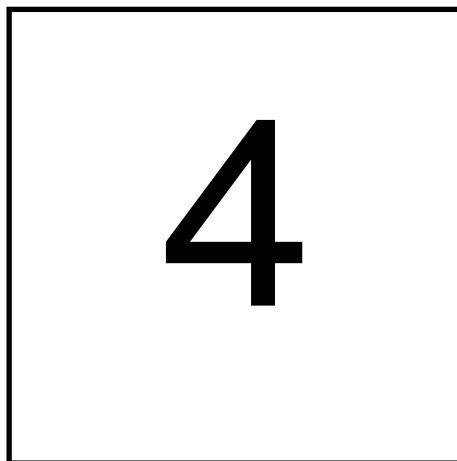
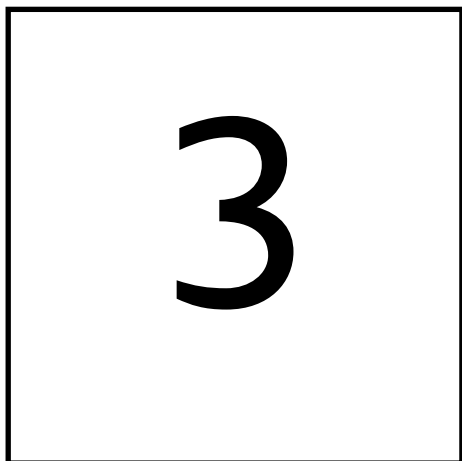
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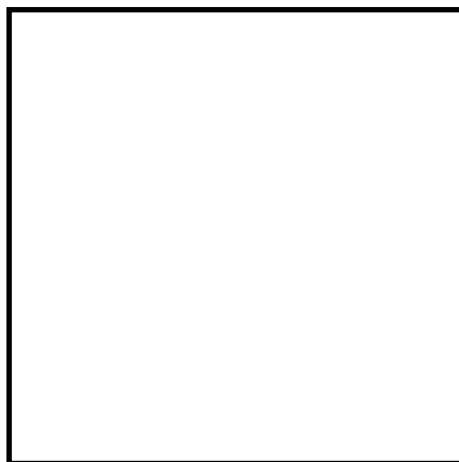
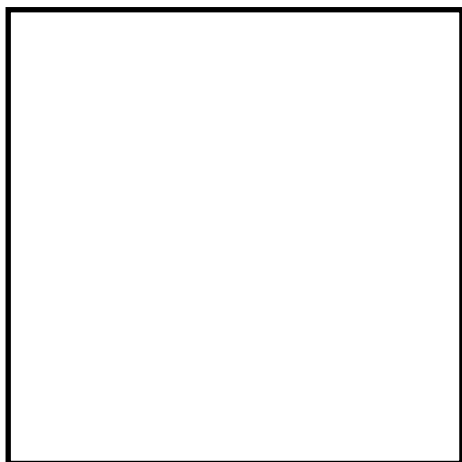
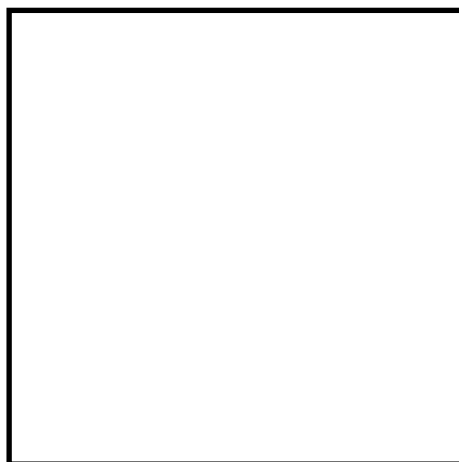
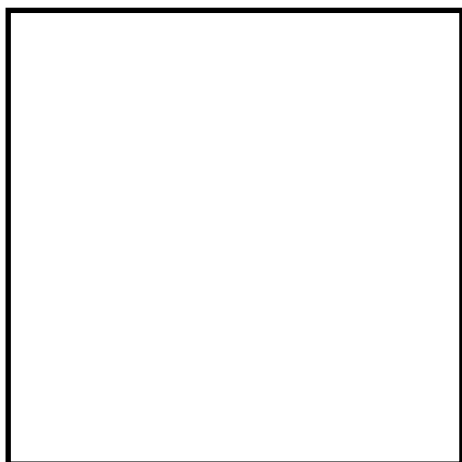
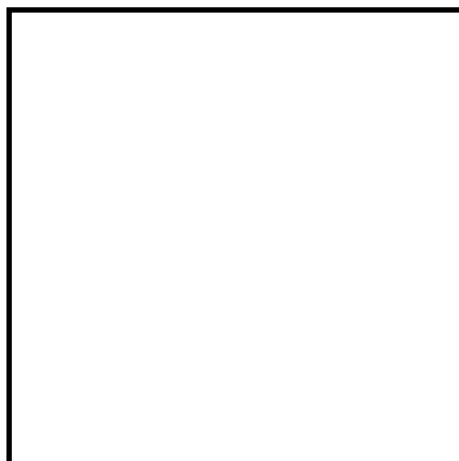
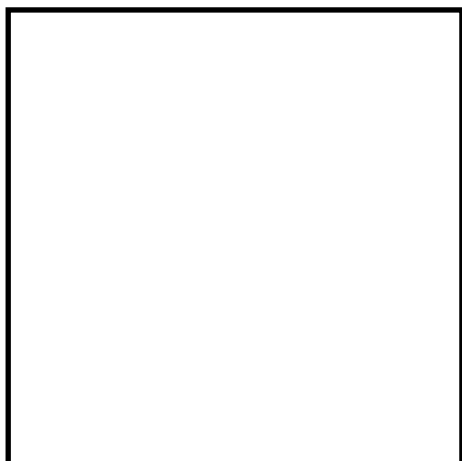
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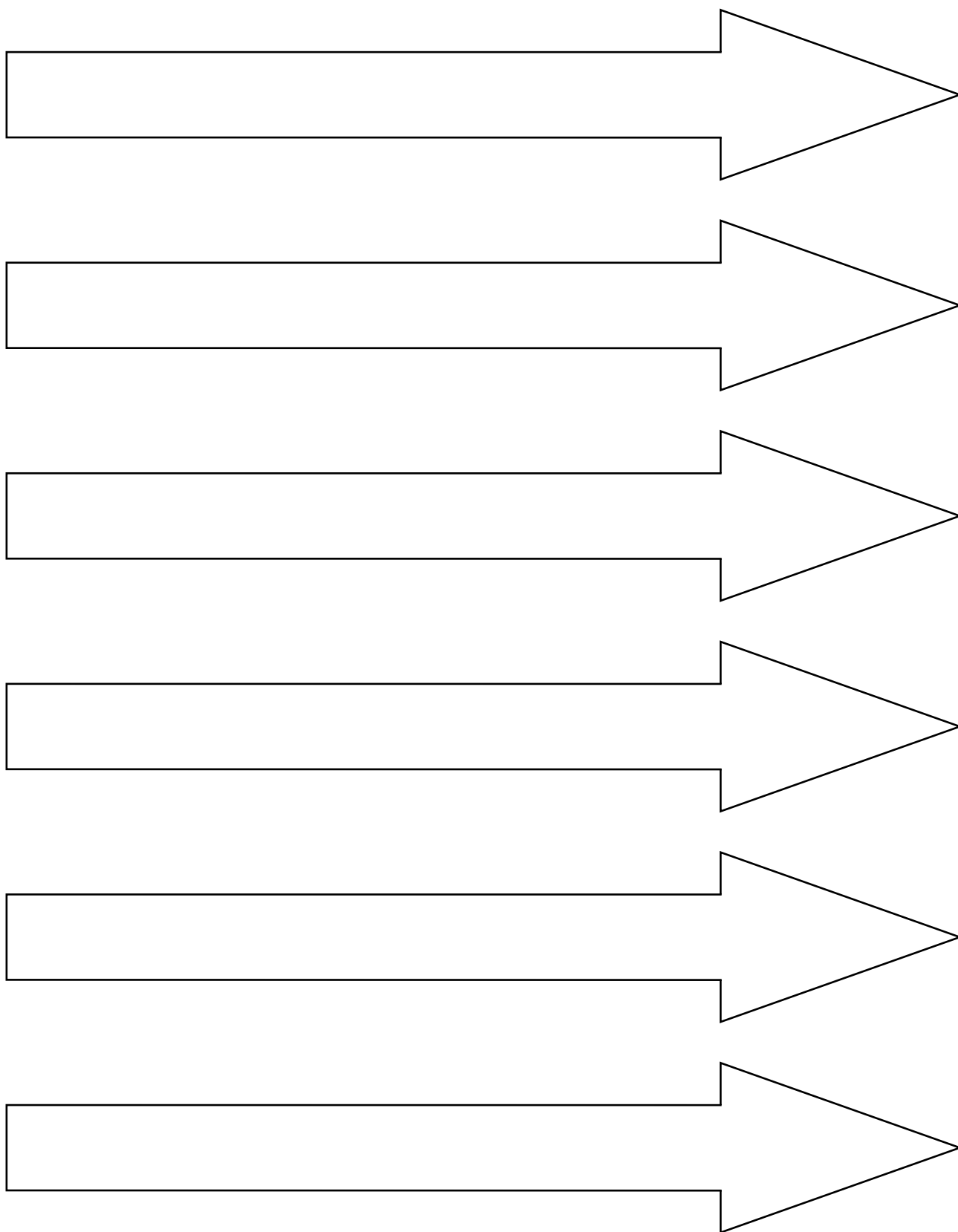
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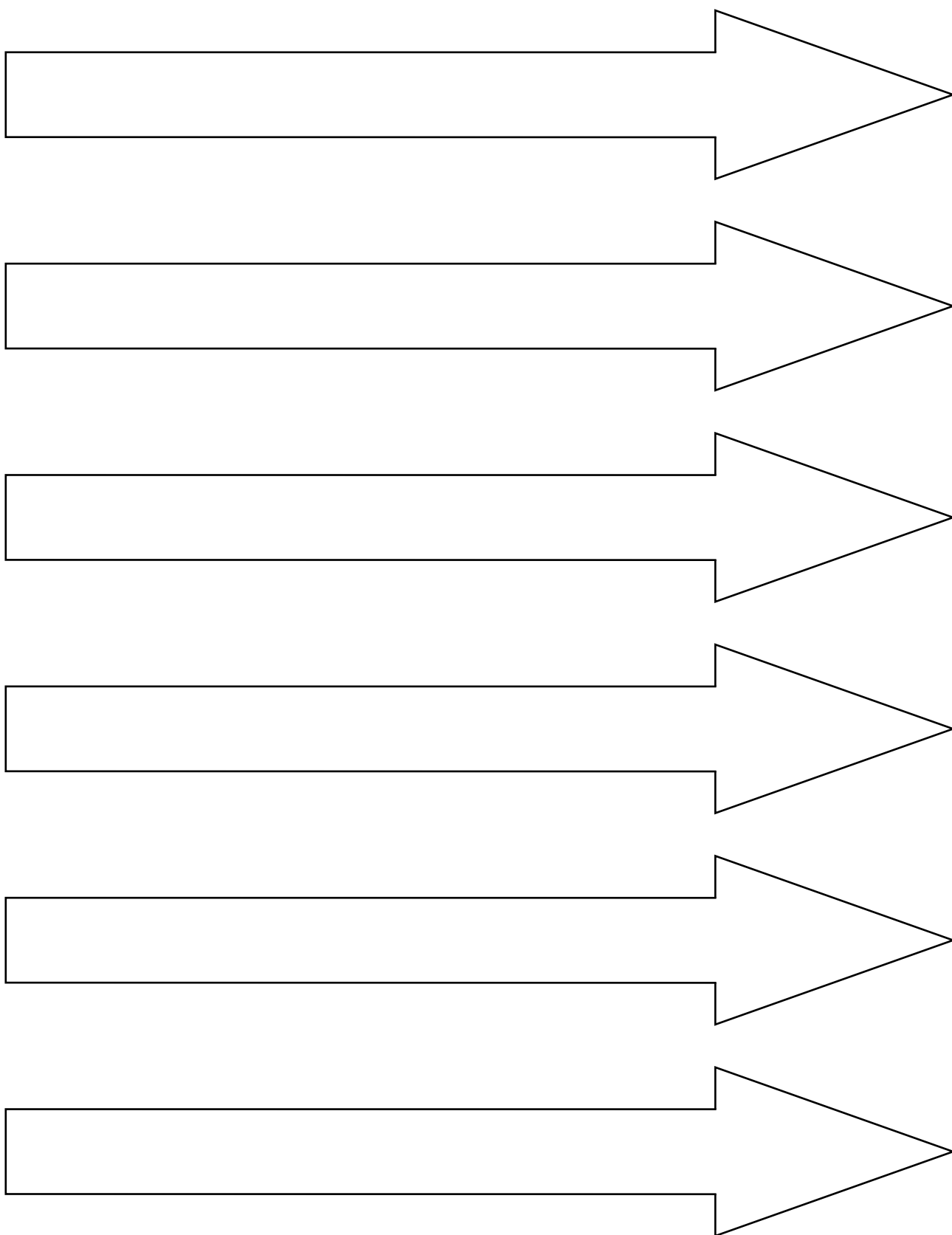


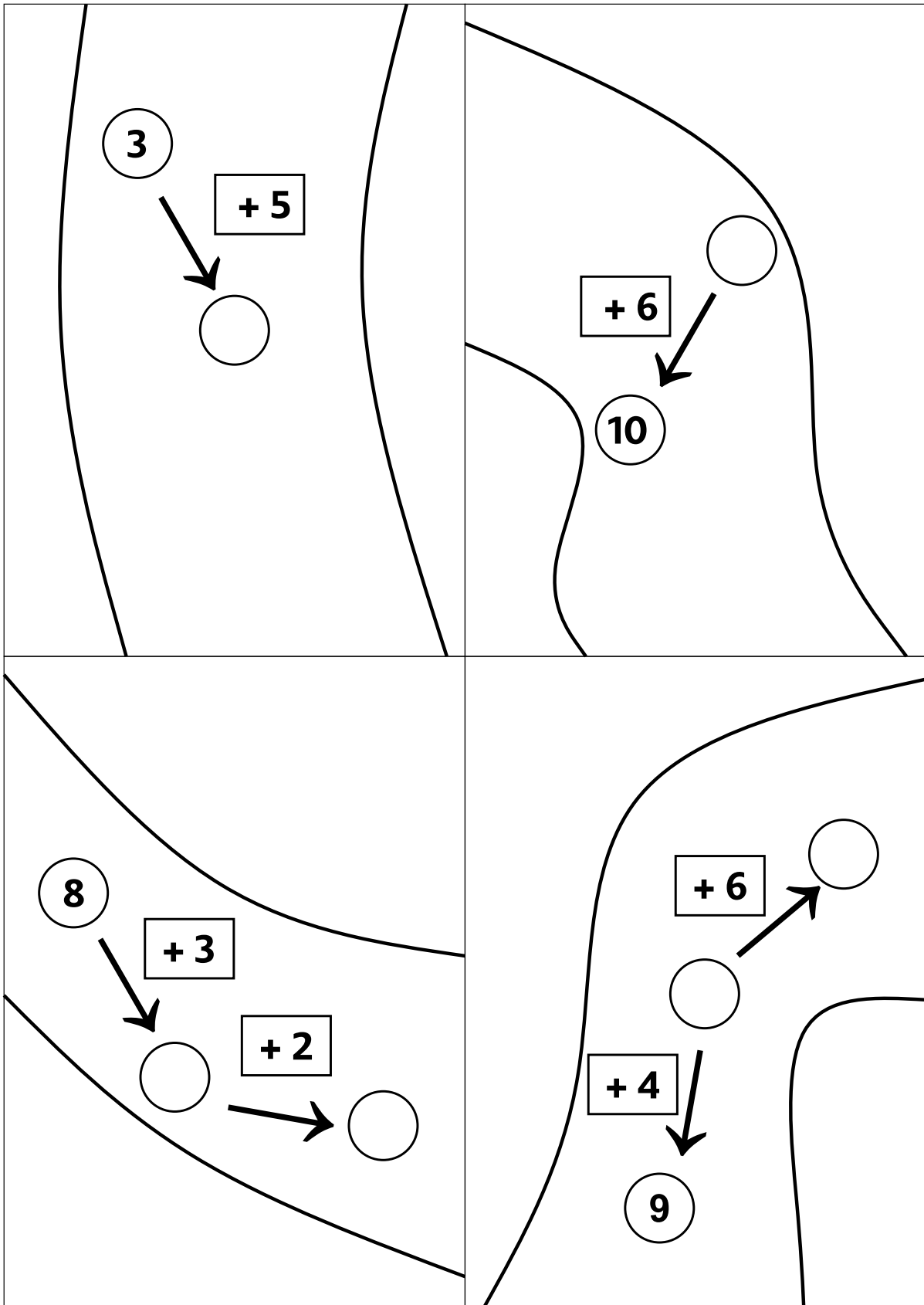


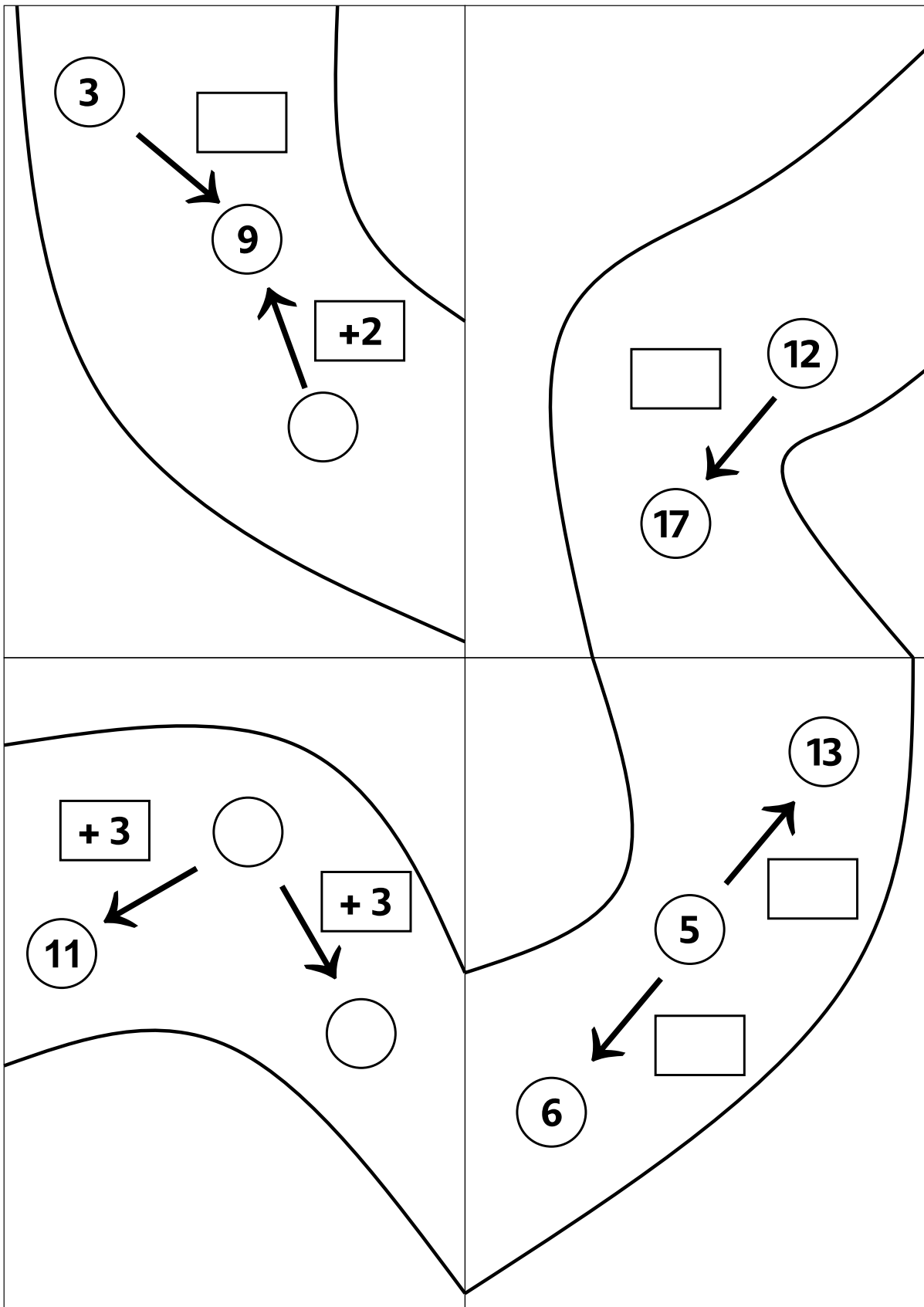




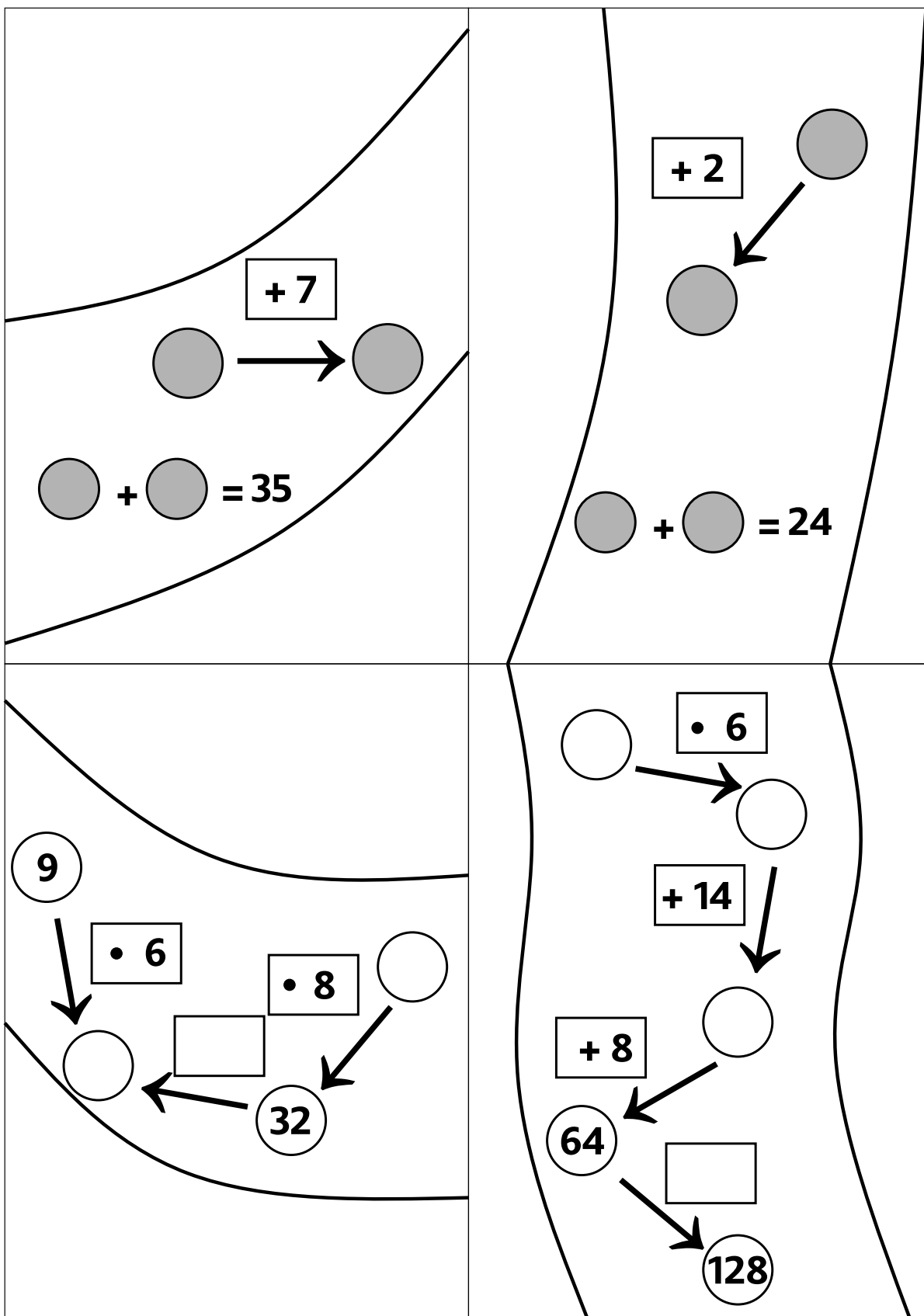


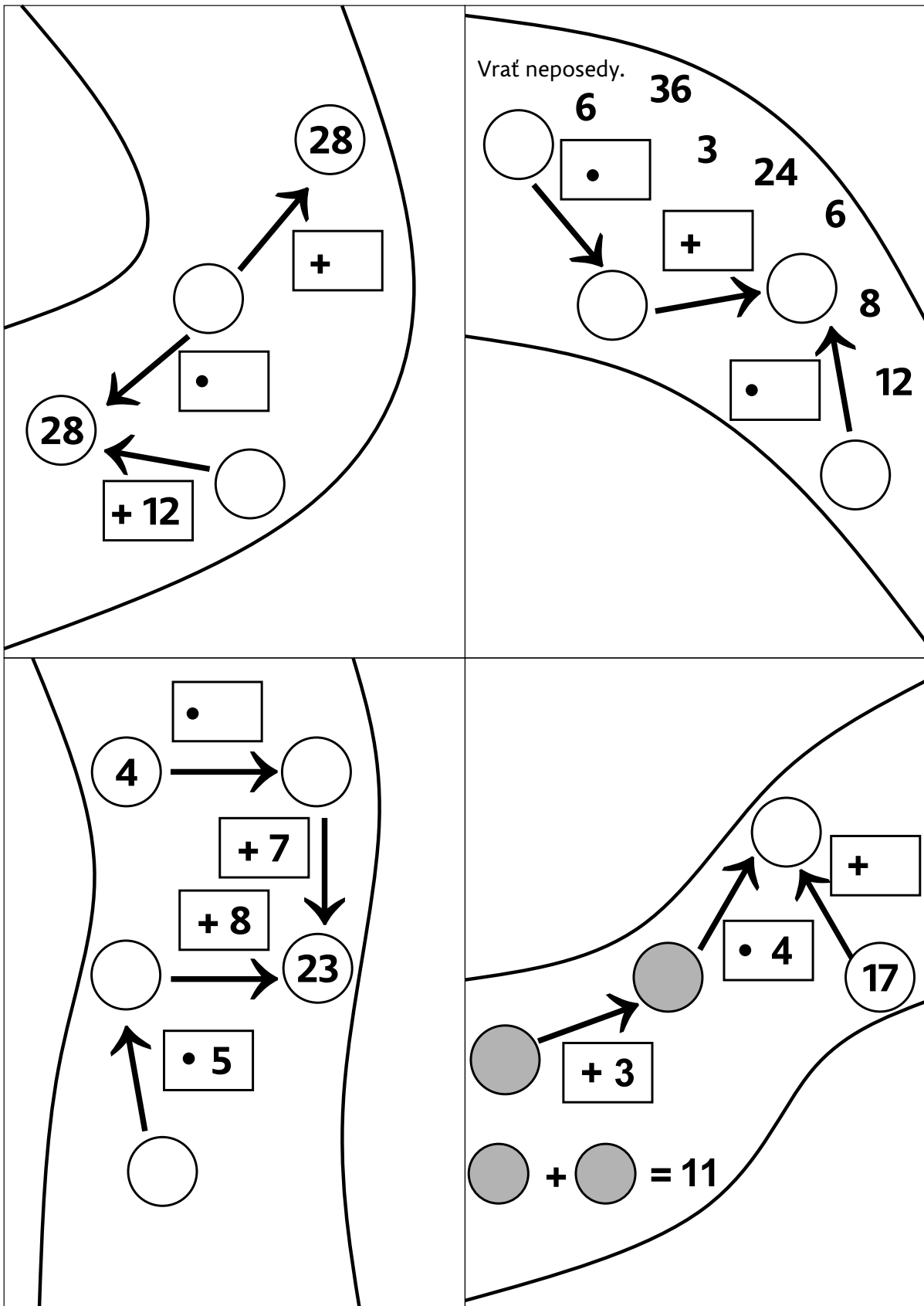


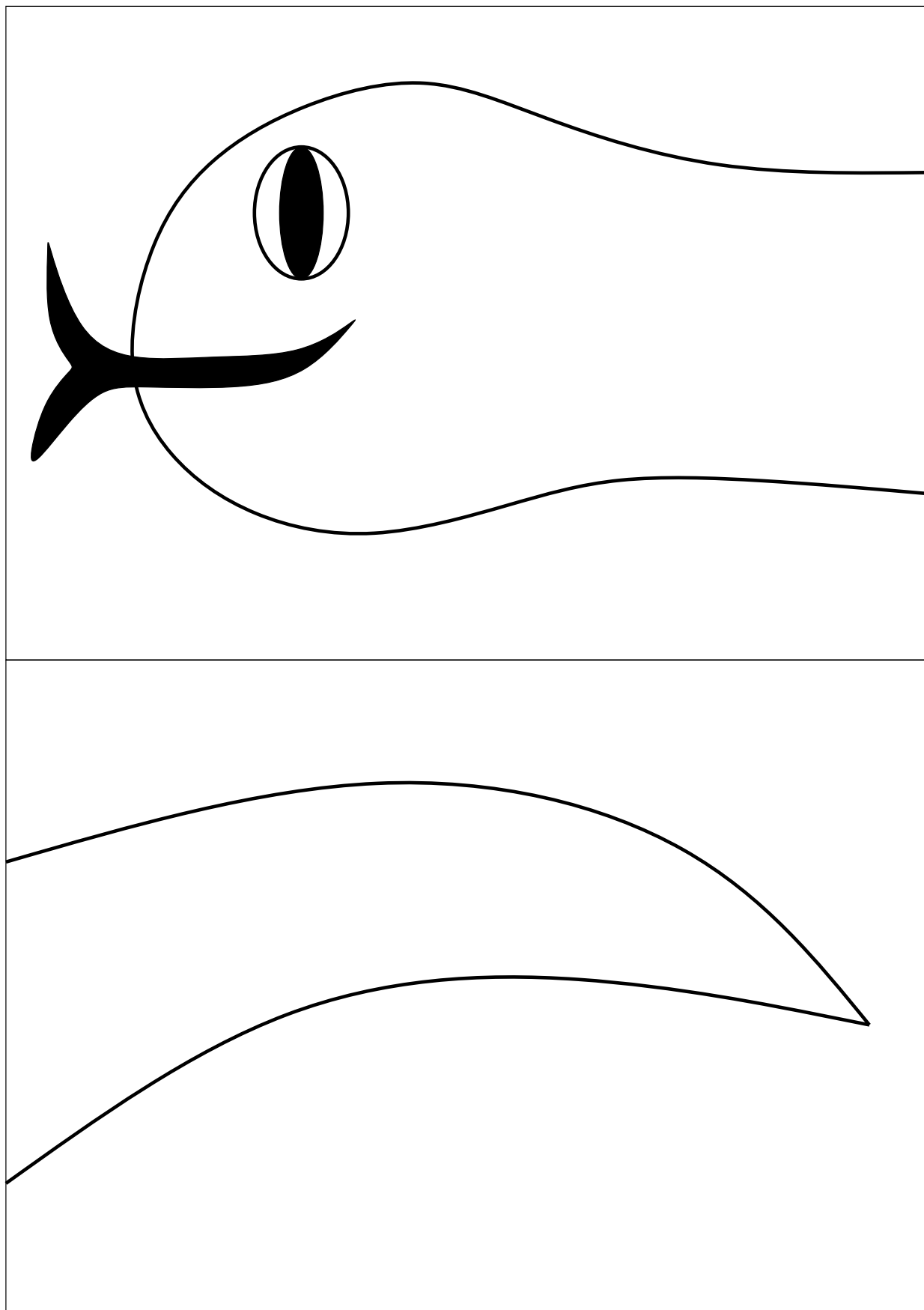


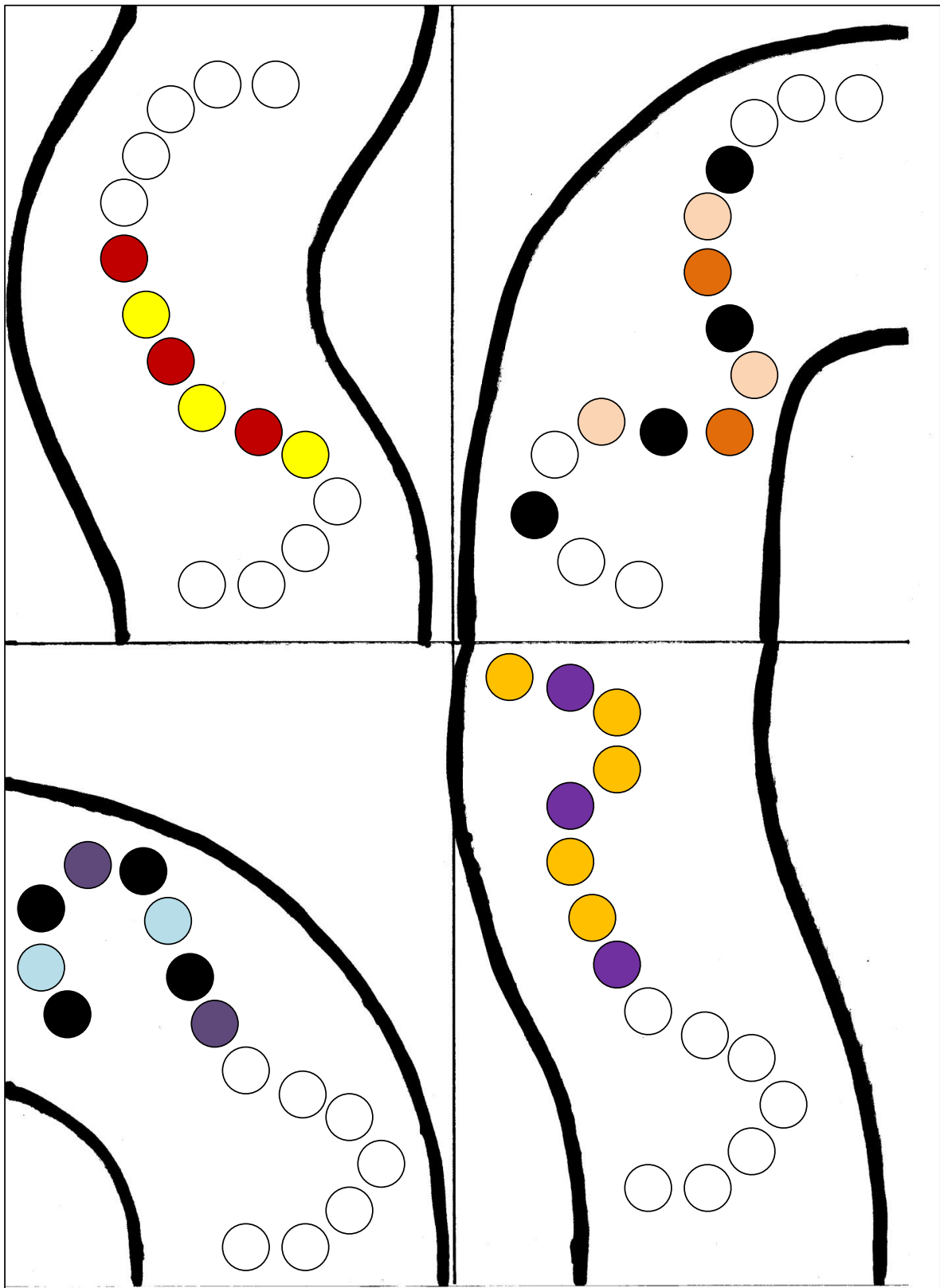


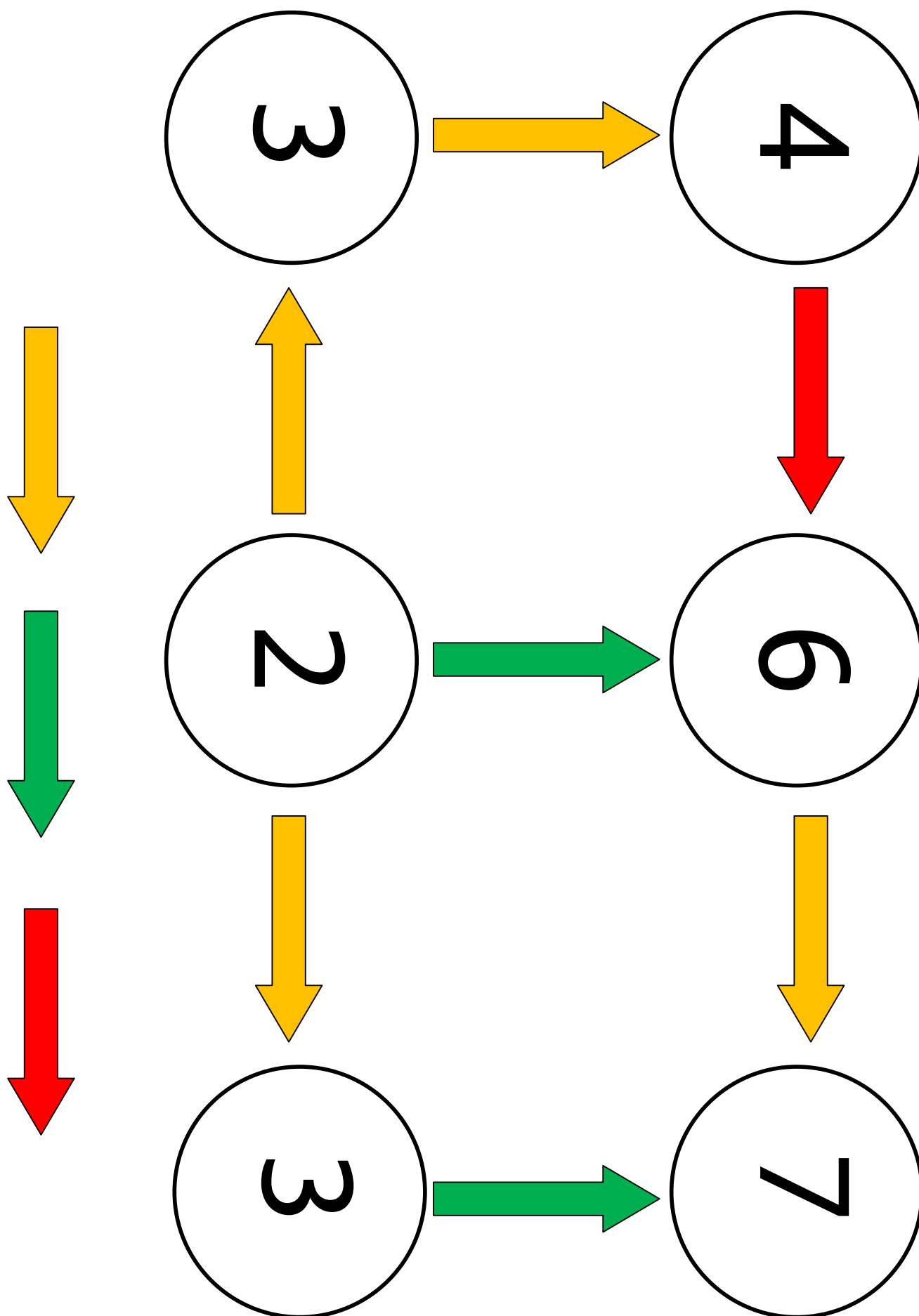
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<p> $\text{○} \xrightarrow{\square +1} \text{○} \begin{matrix} 4 \\ \hline \end{matrix} \xrightarrow{\square} \text{○}$ $\text{○} + \square = 5$ </p>	<p> $\text{○} \xrightarrow{\square +9} \text{○}$ $\text{○} \xrightarrow{\square +4} \text{○}$ $\text{○} \xrightarrow{\square +5} \text{○} \begin{matrix} 15 \\ \hline \end{matrix}$ </p>

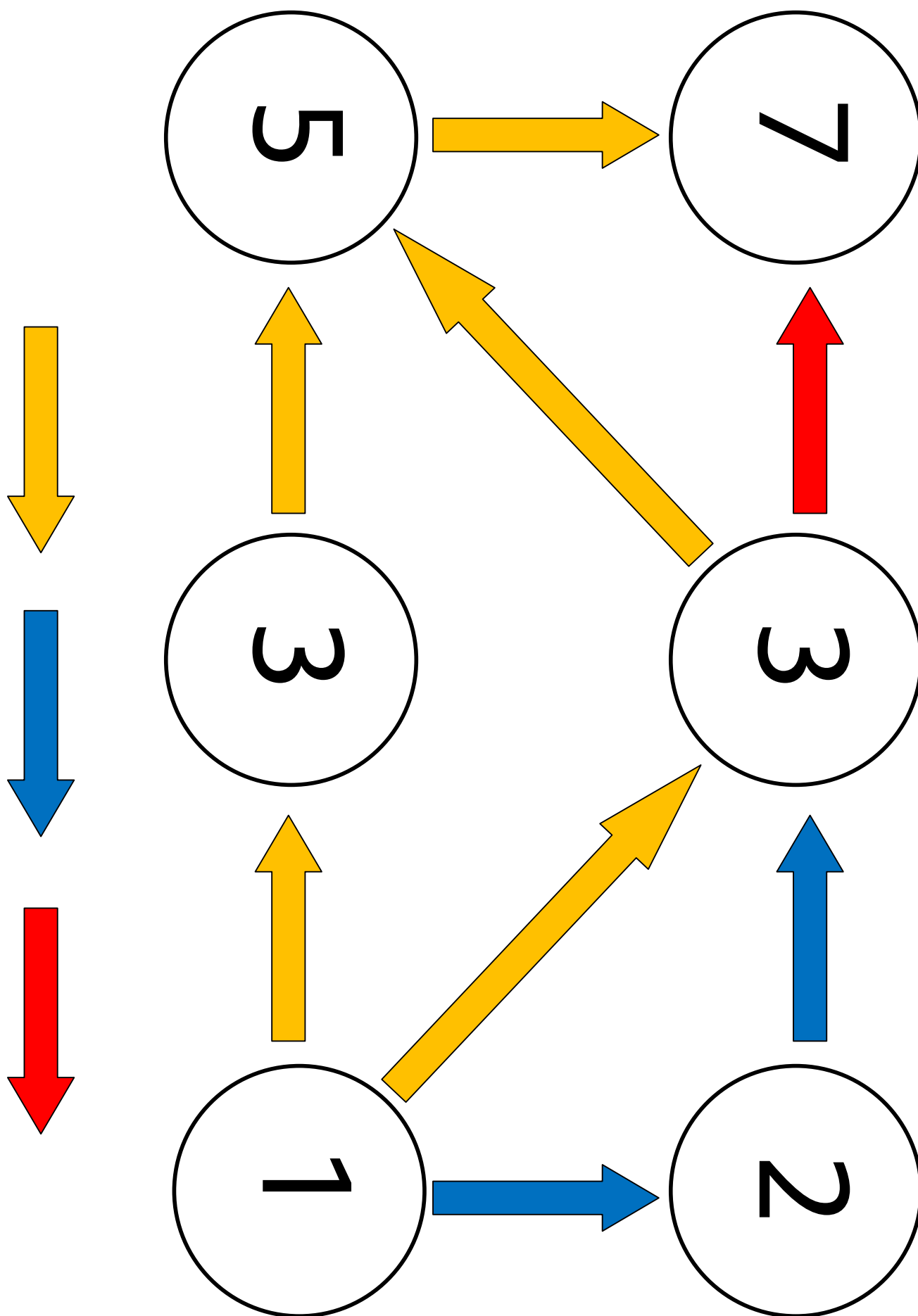


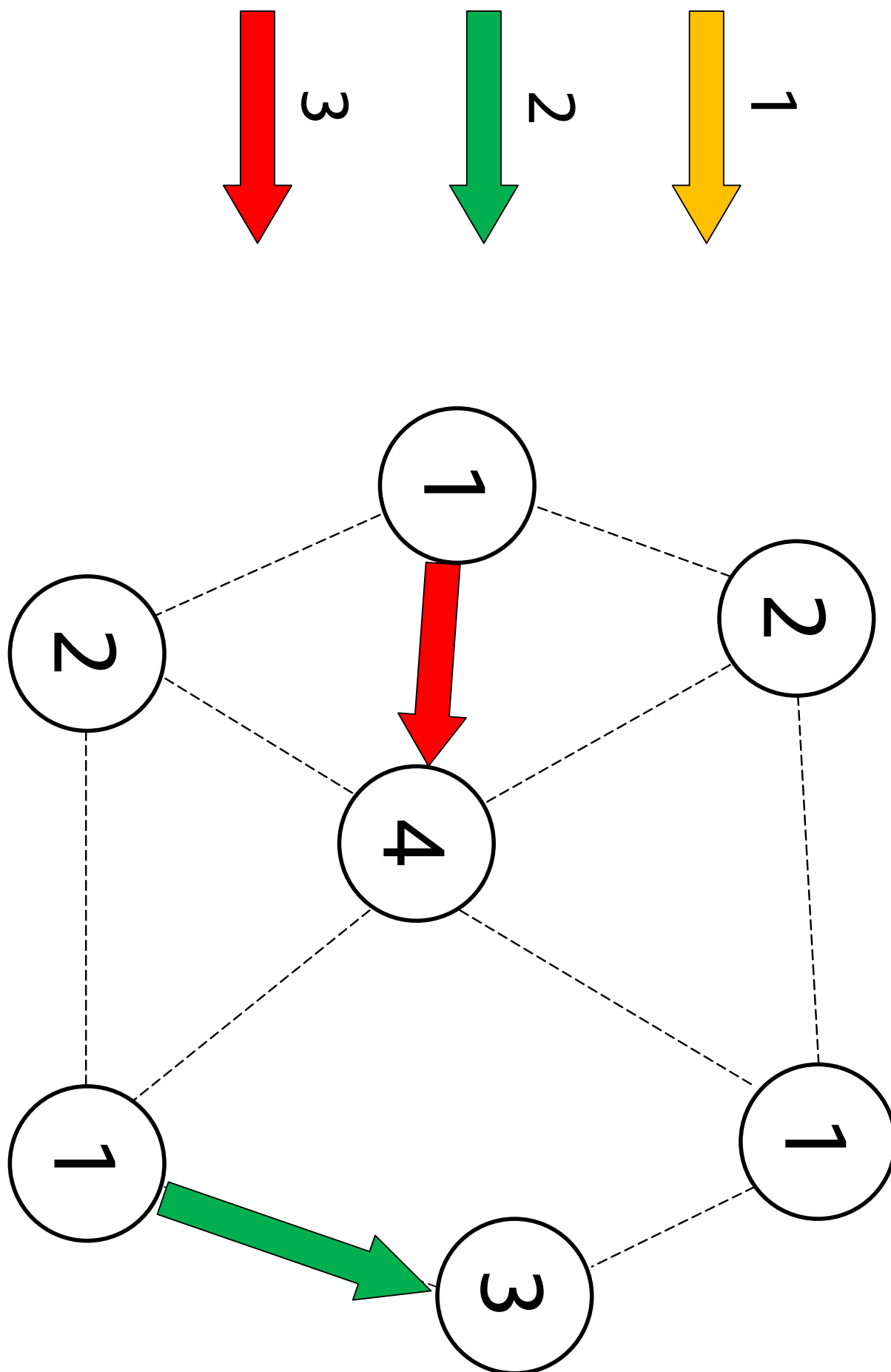


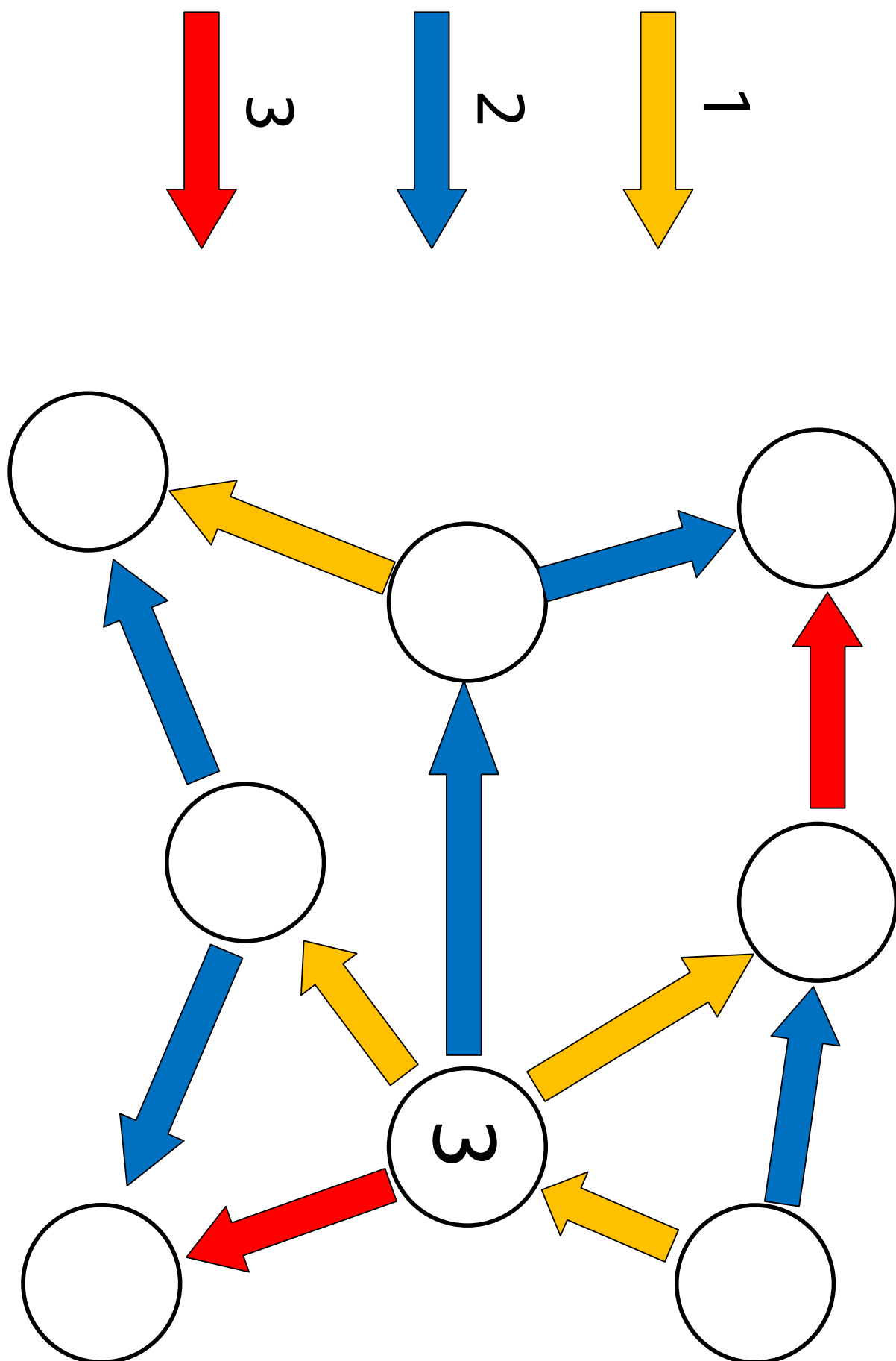


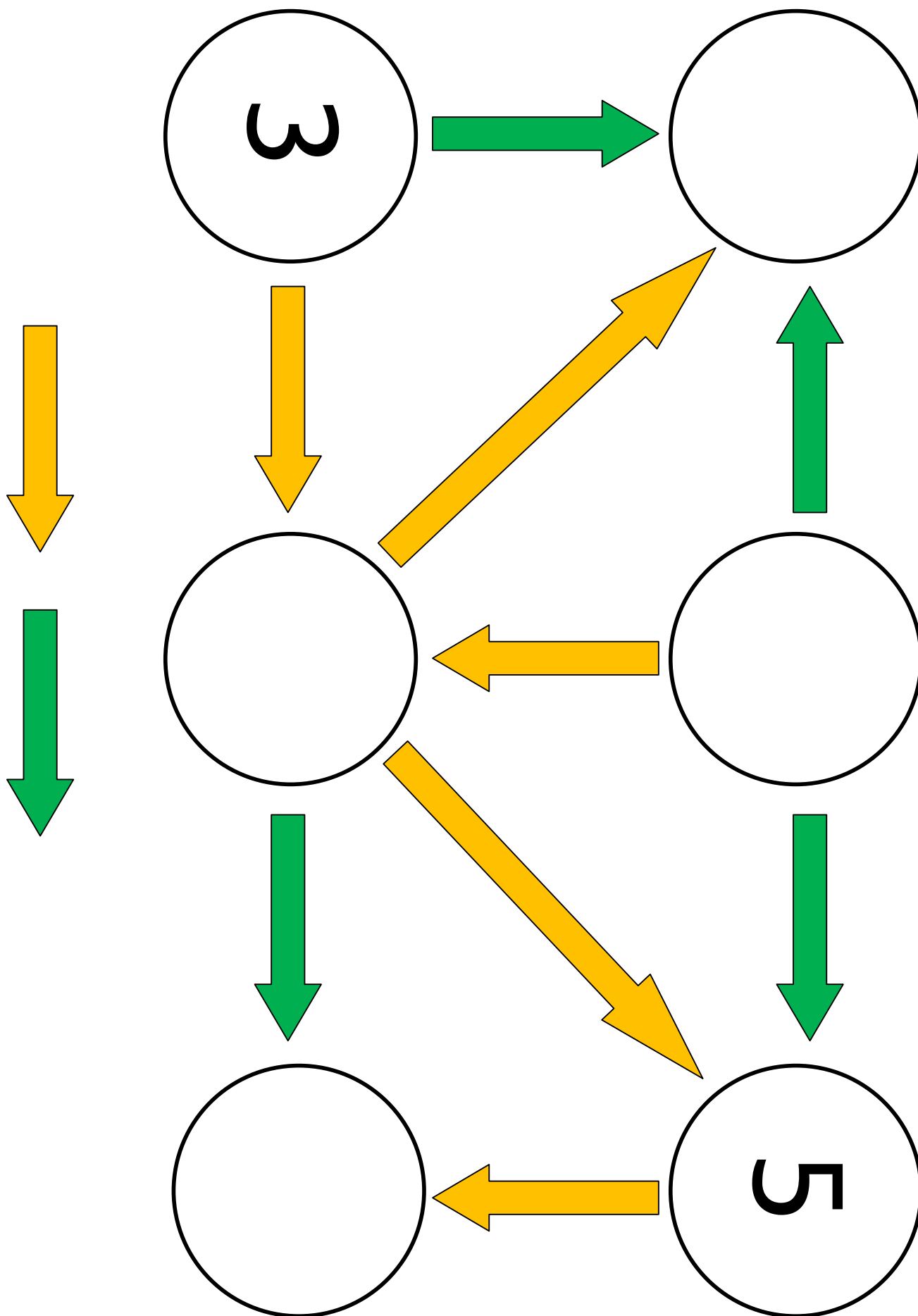


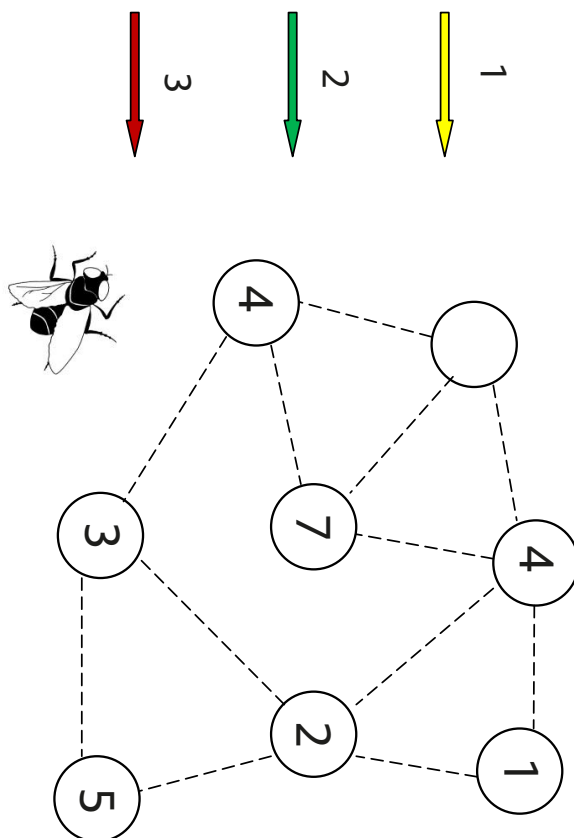
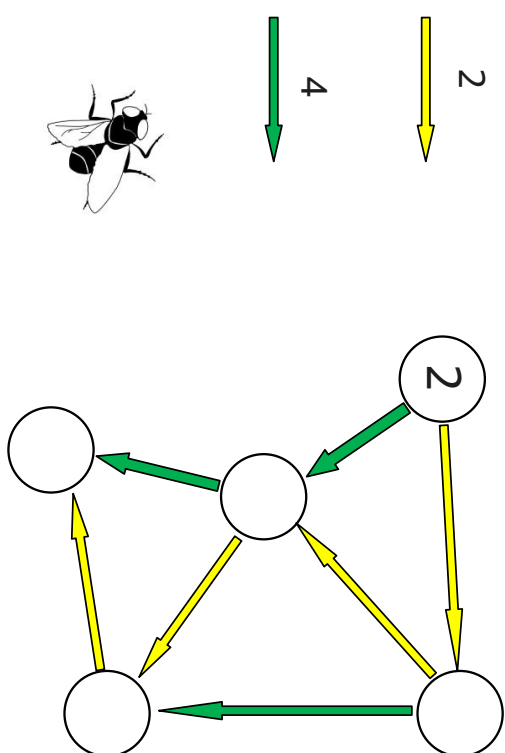
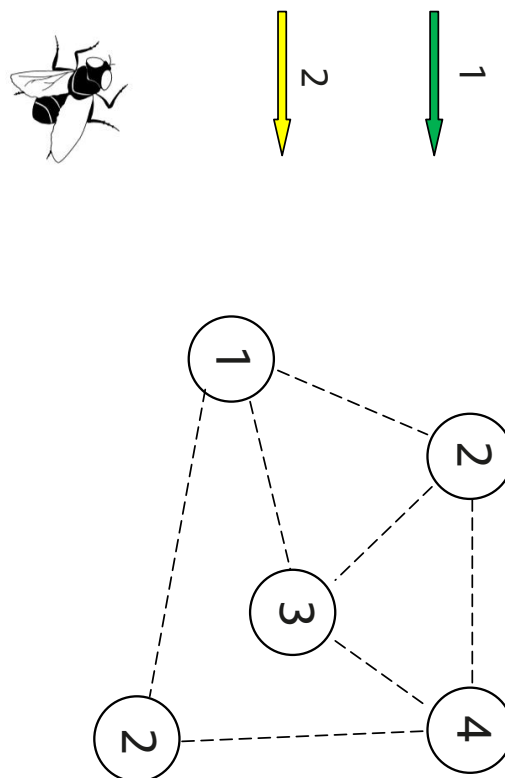
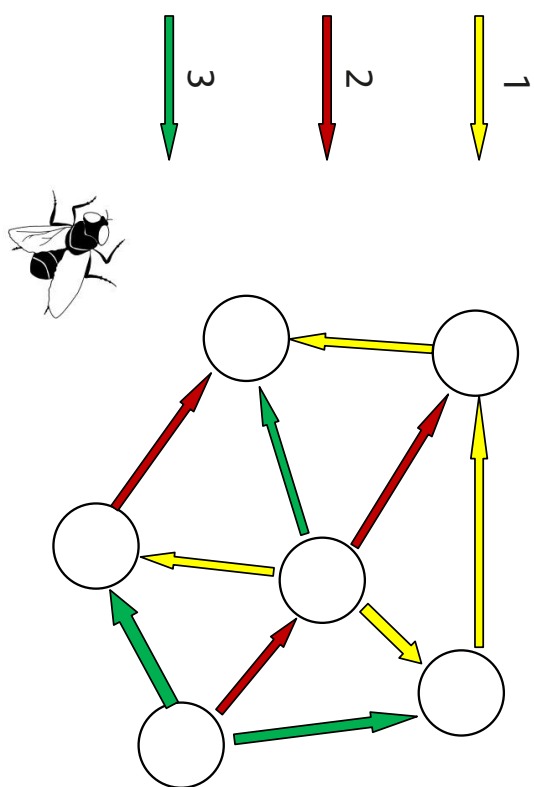


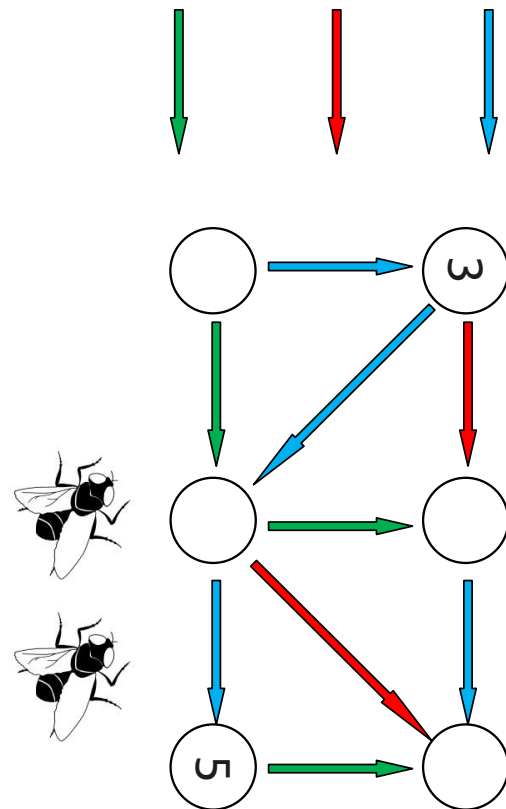
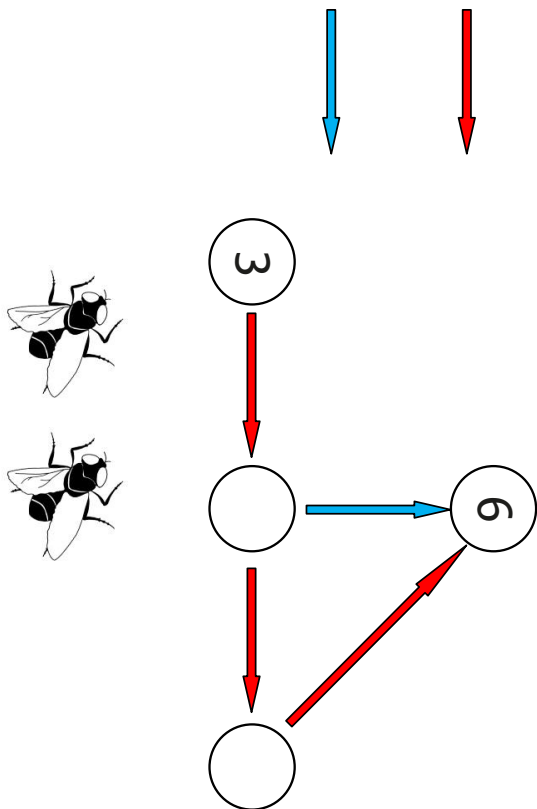
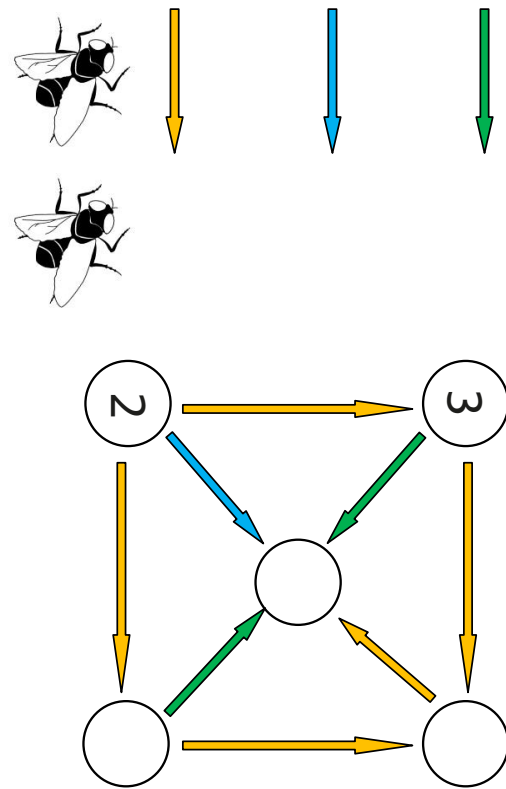
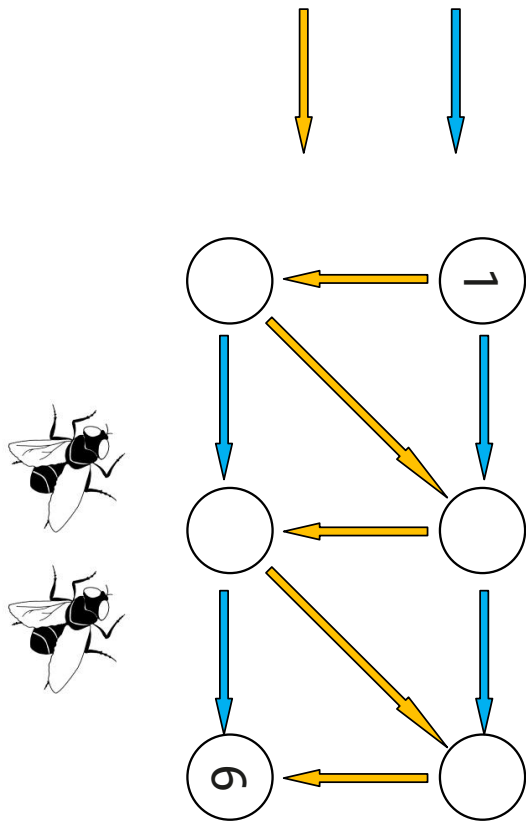


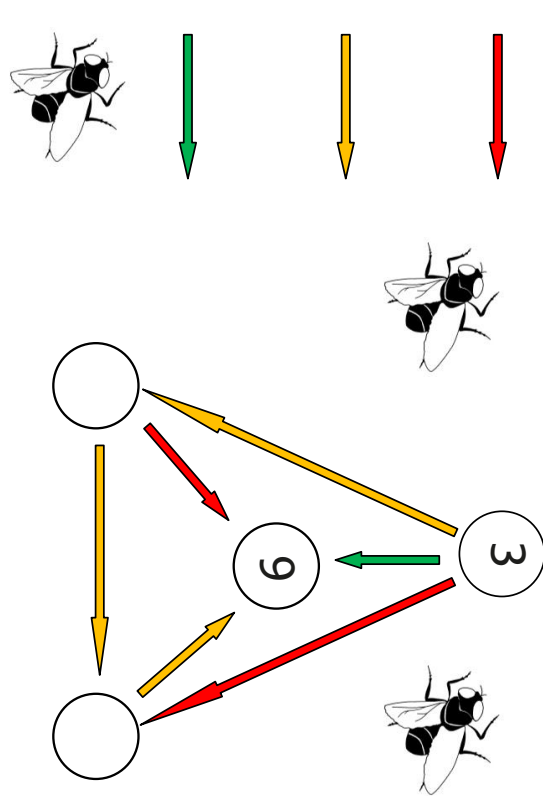
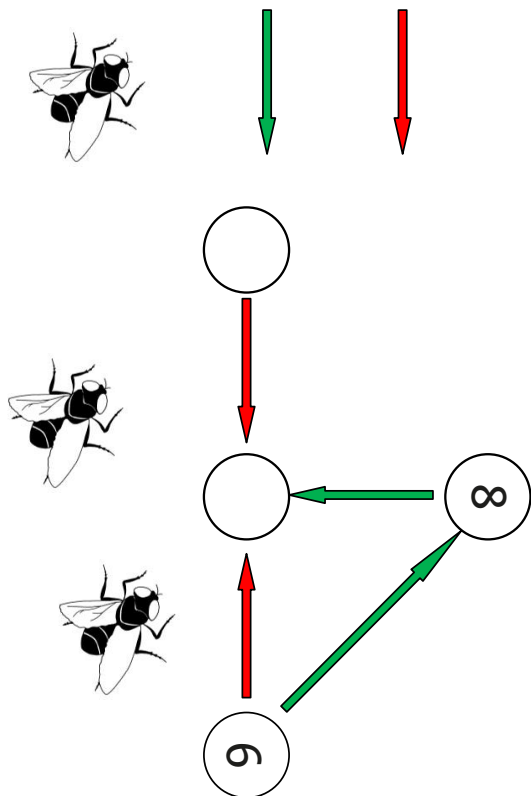
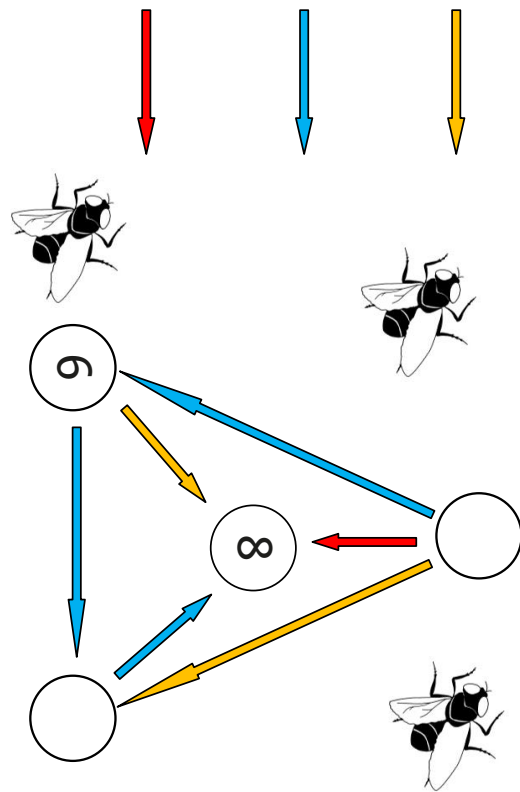
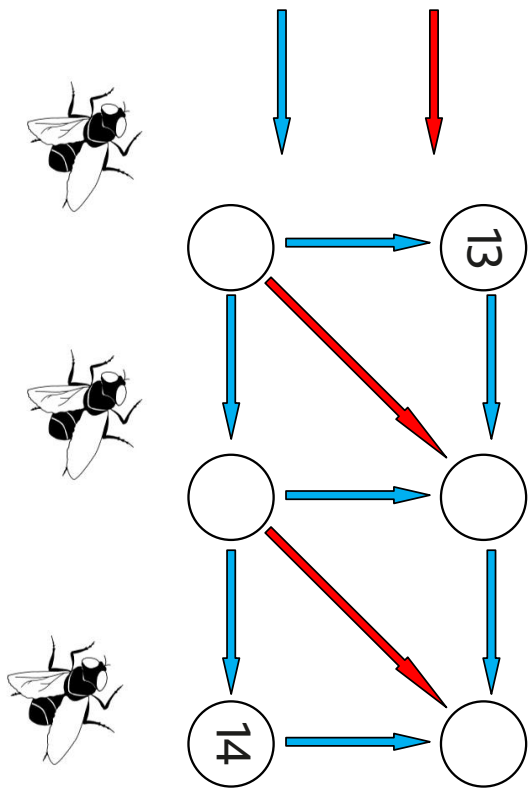


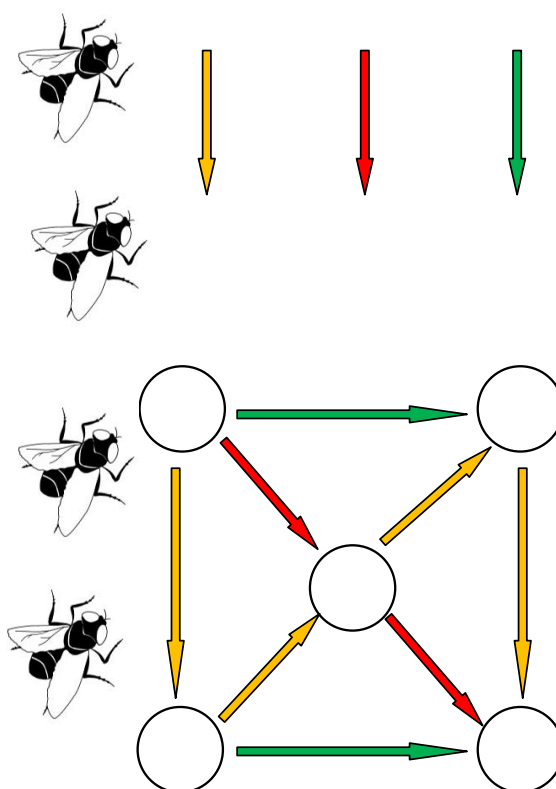
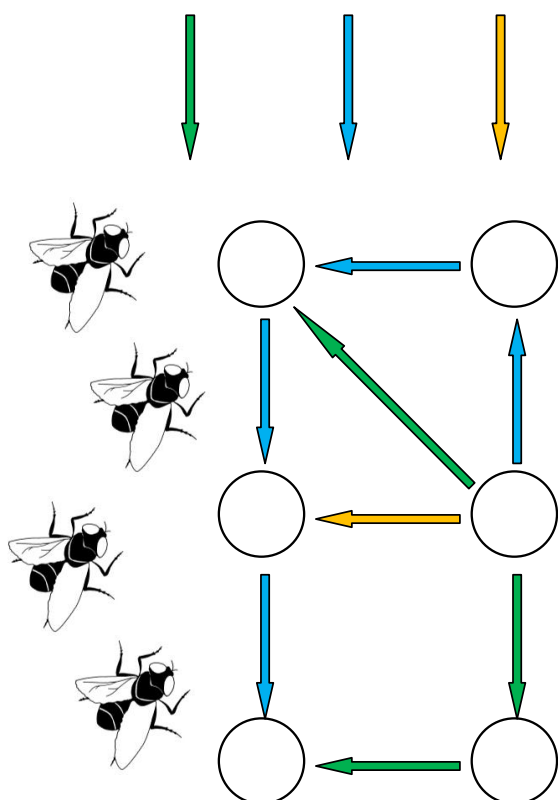
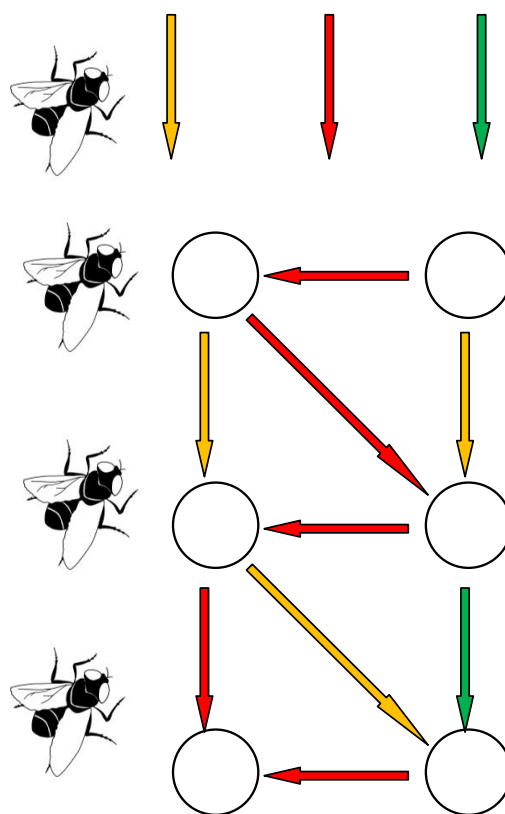
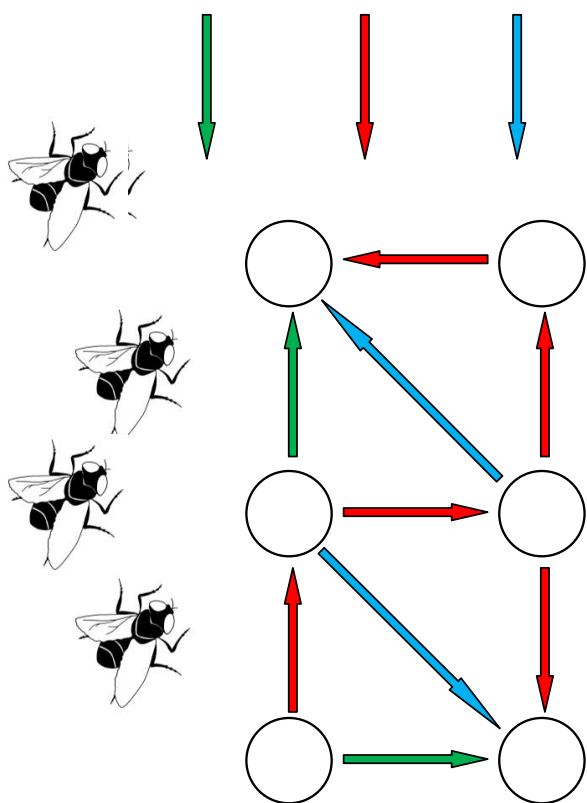


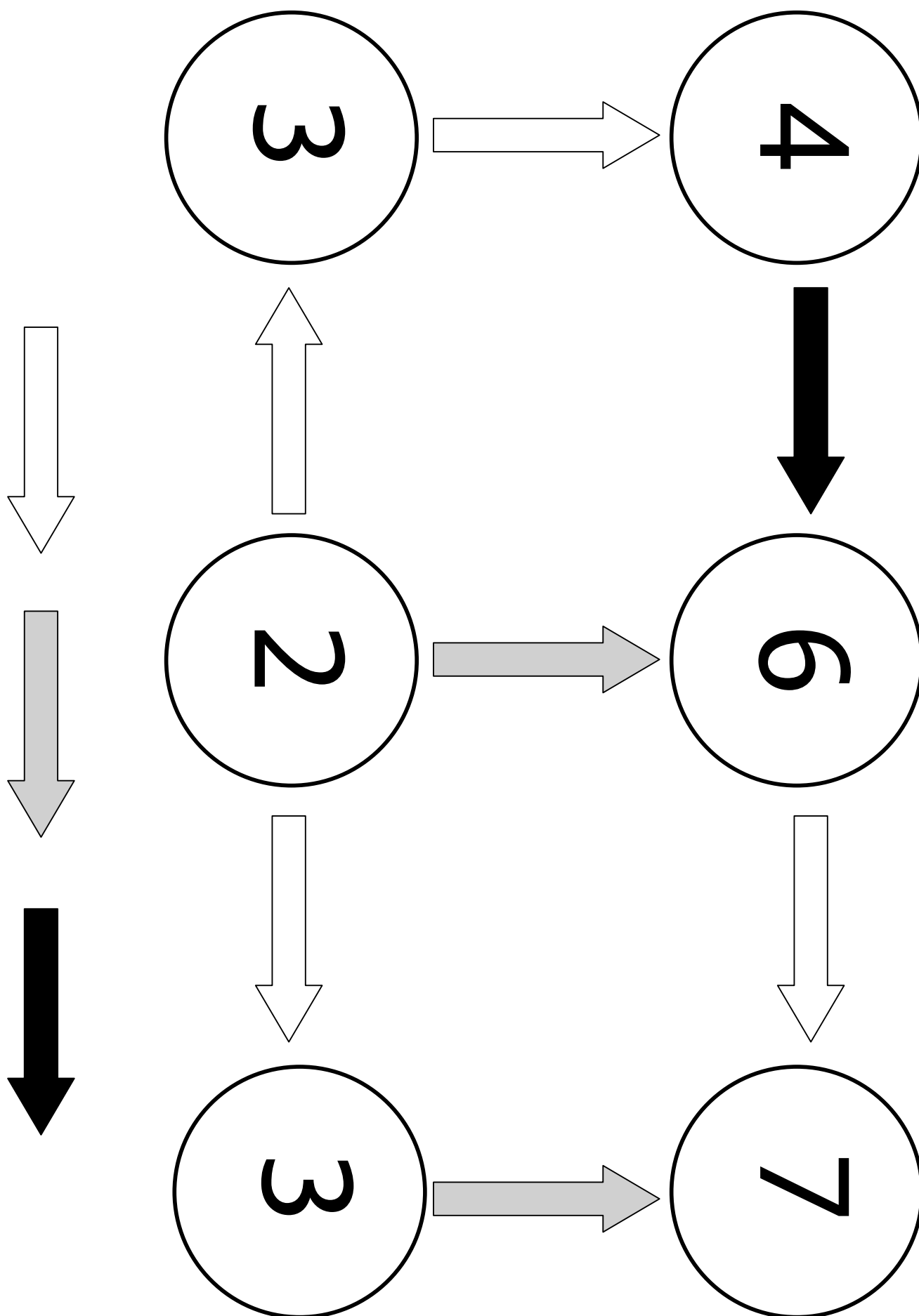


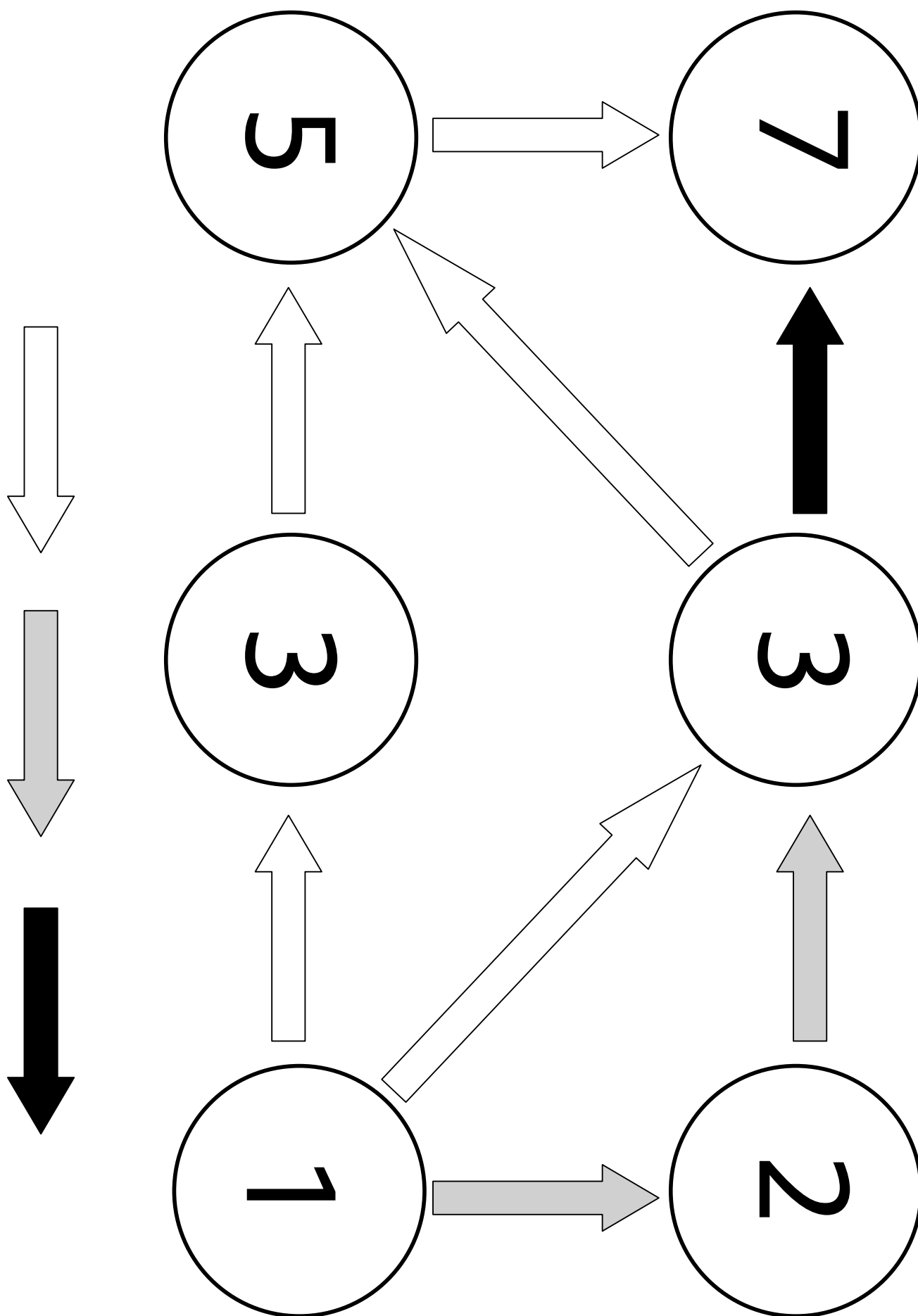


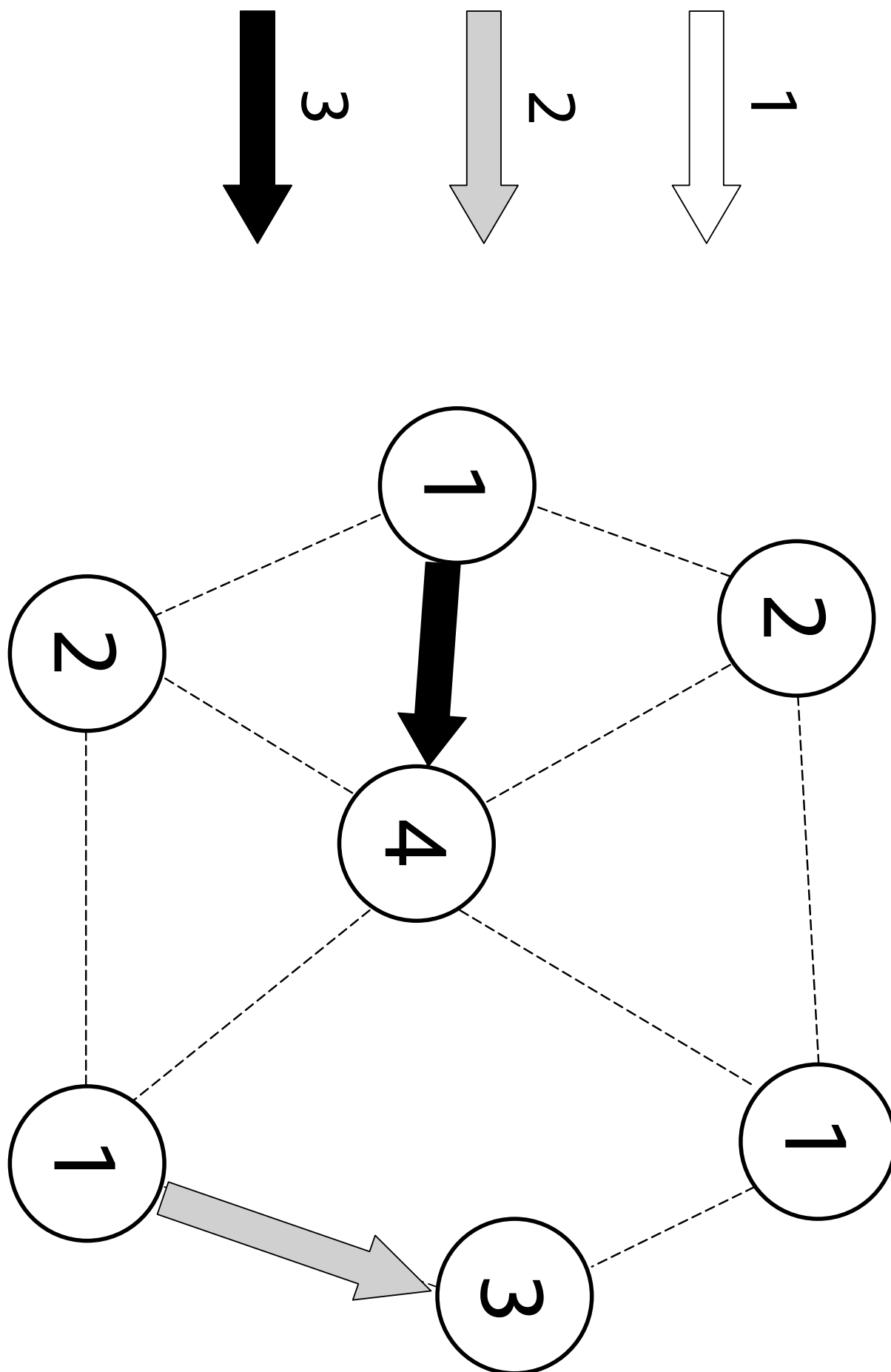


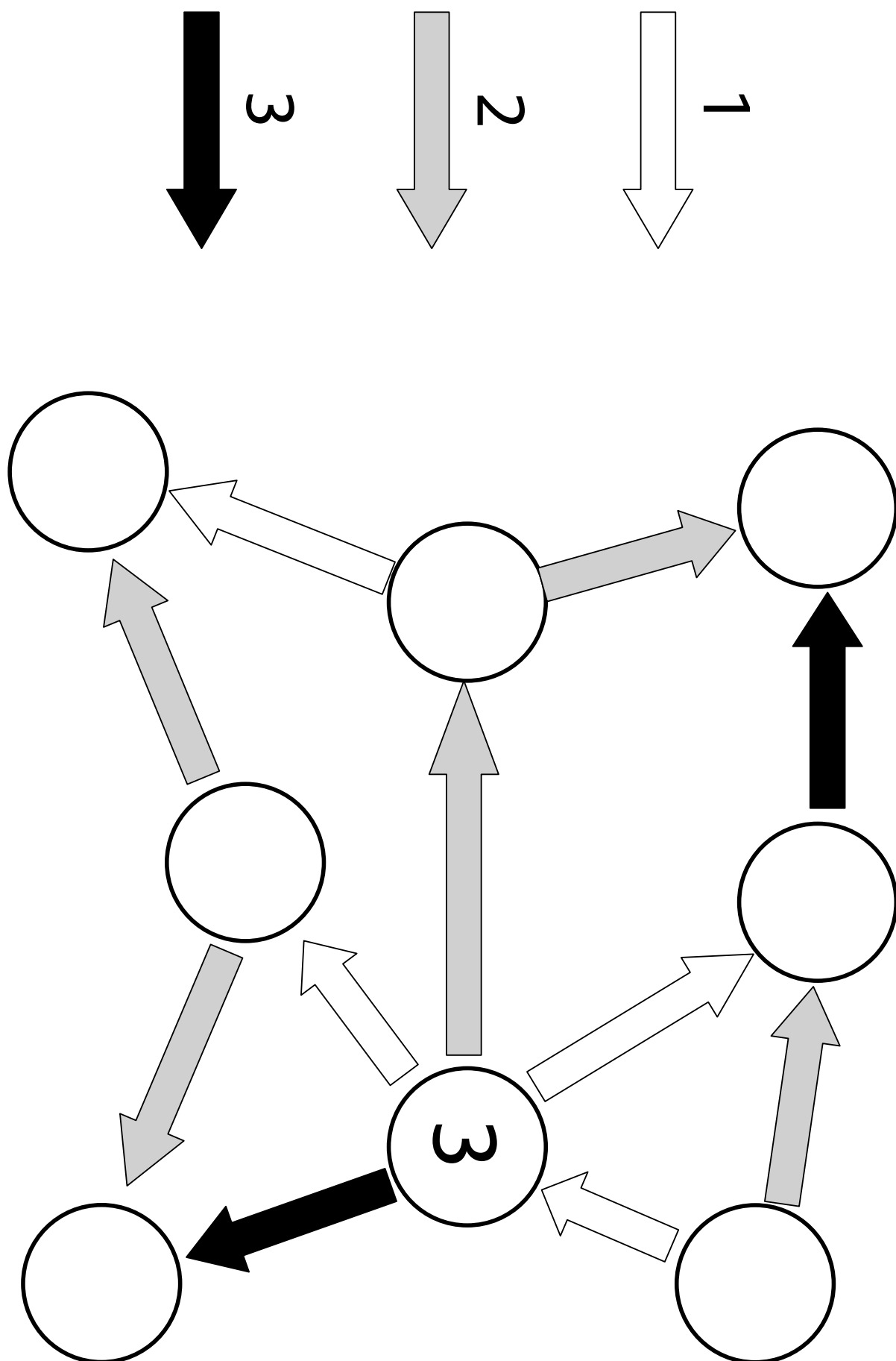


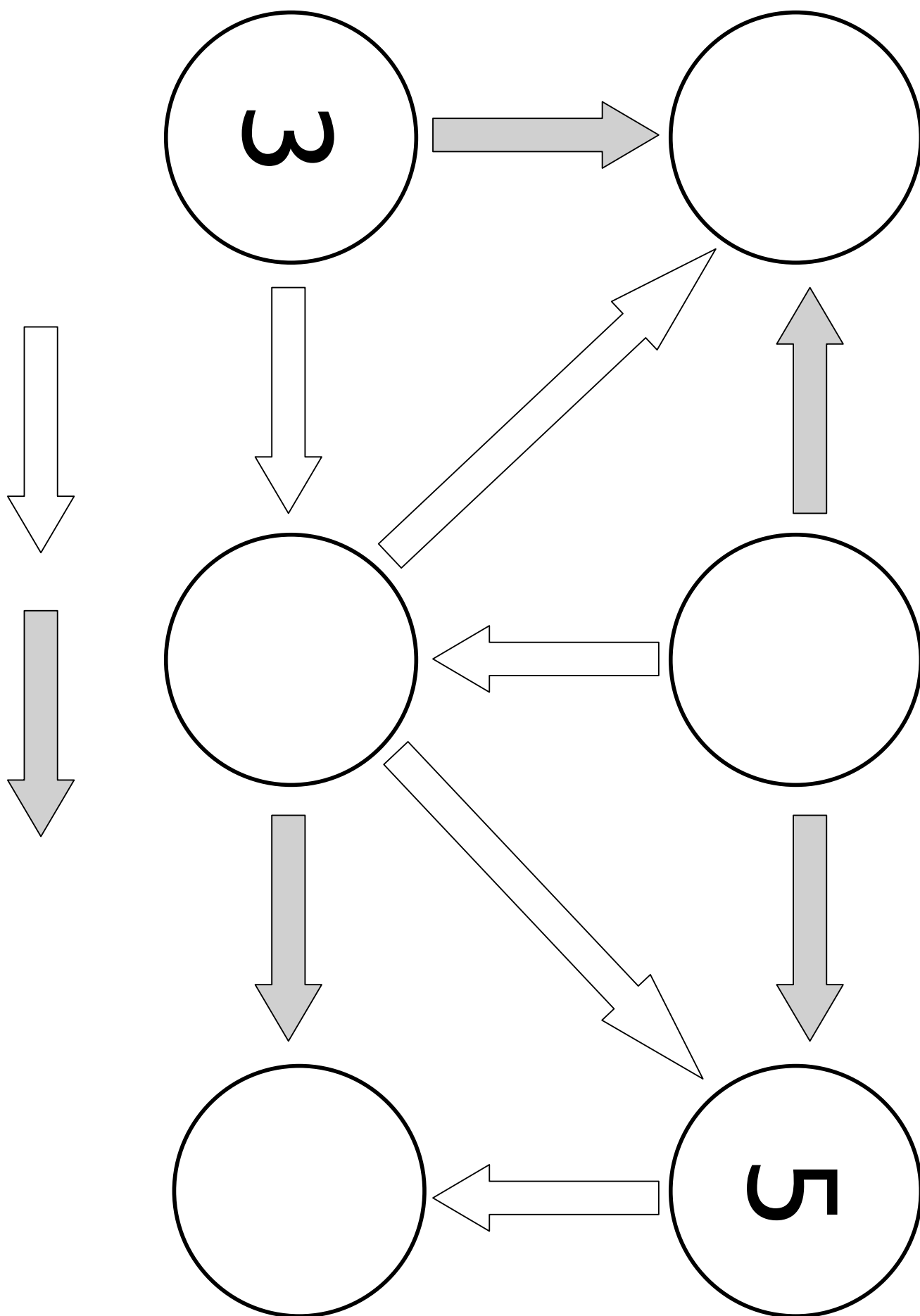


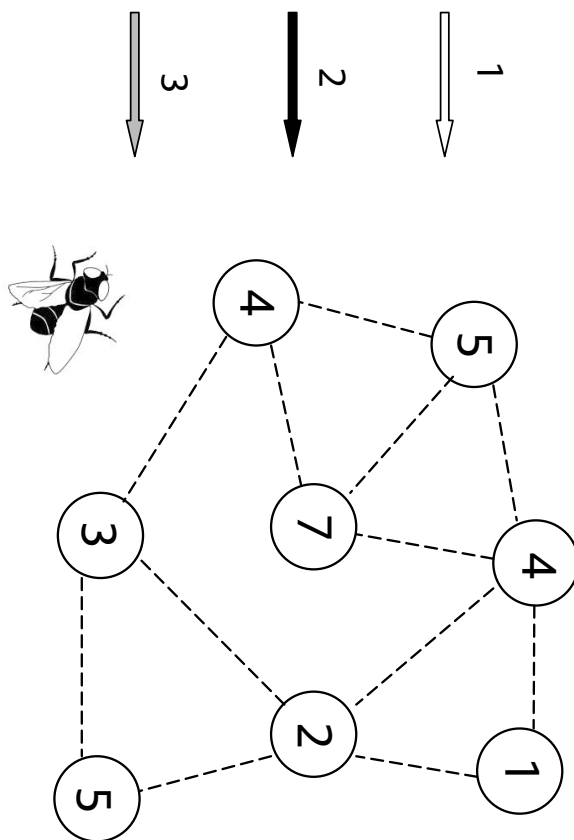
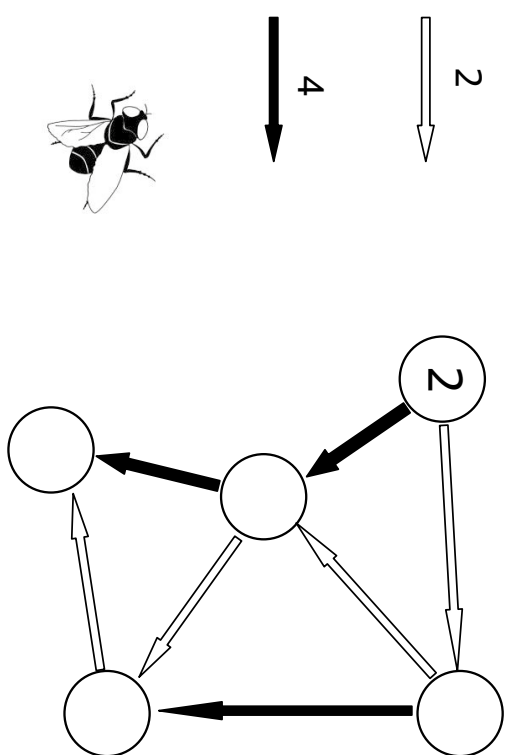
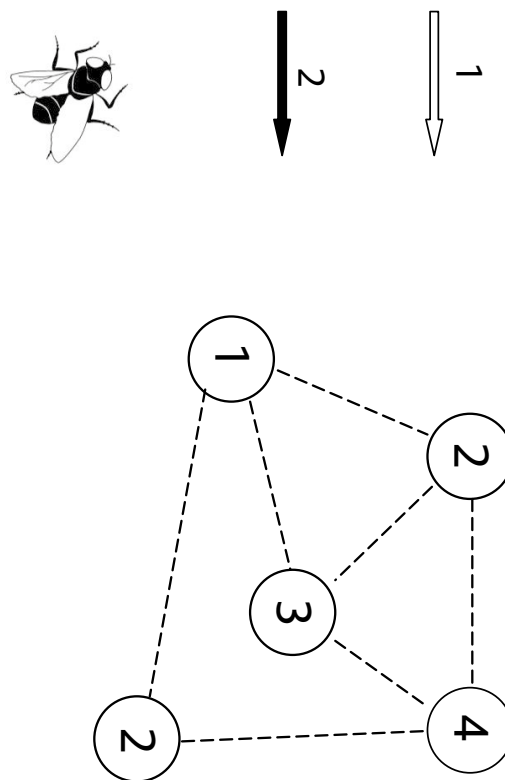
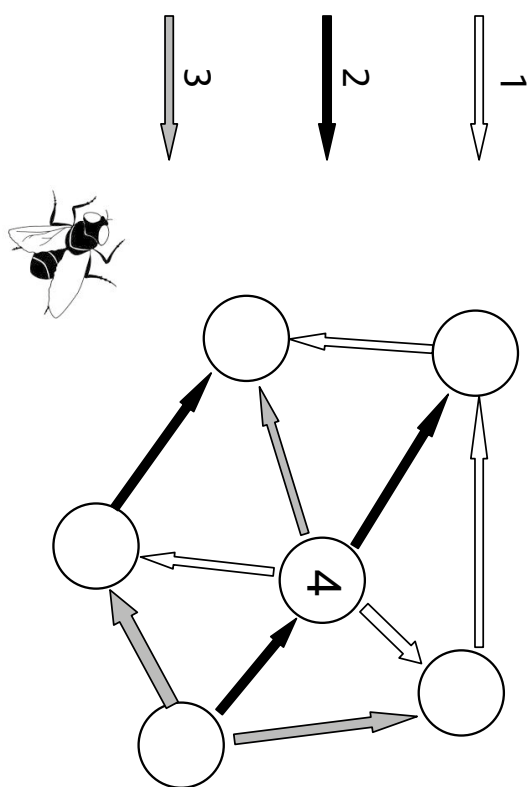


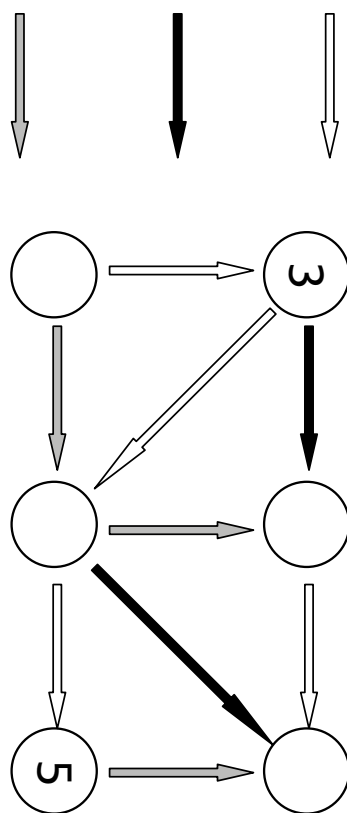
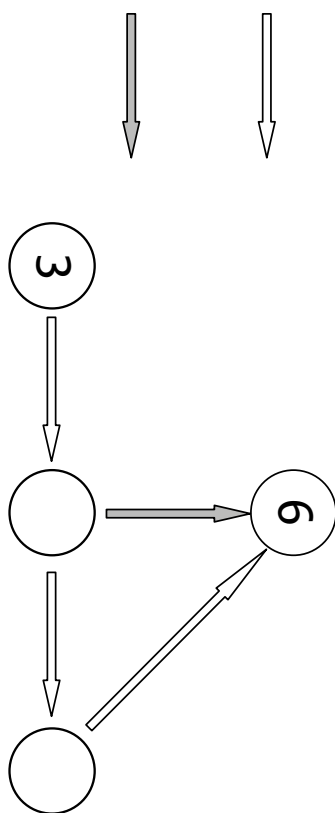
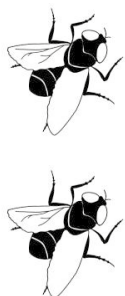
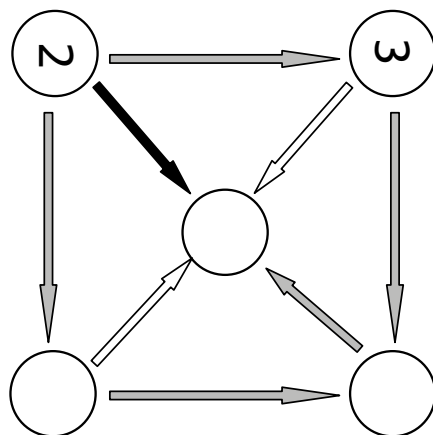
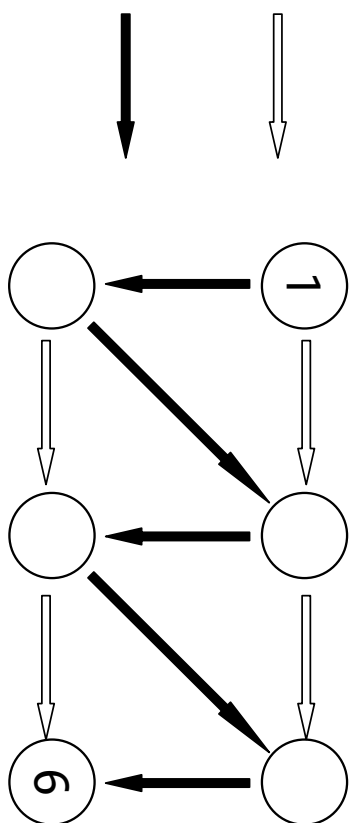


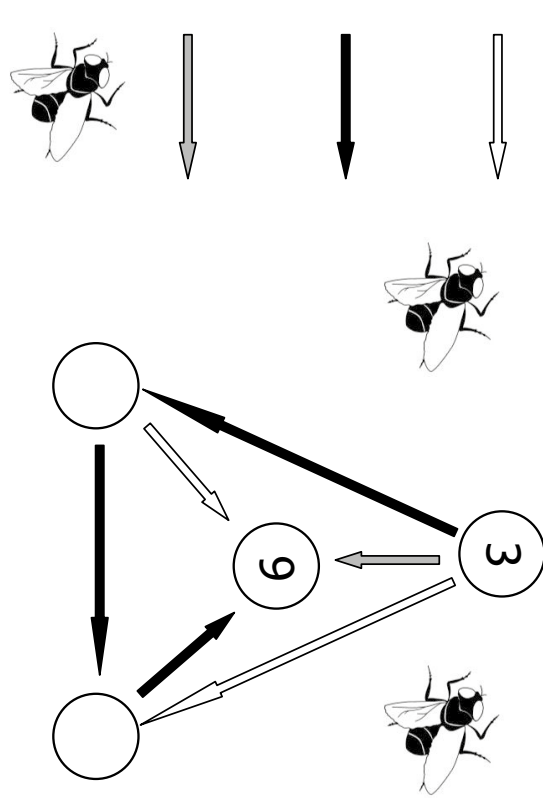
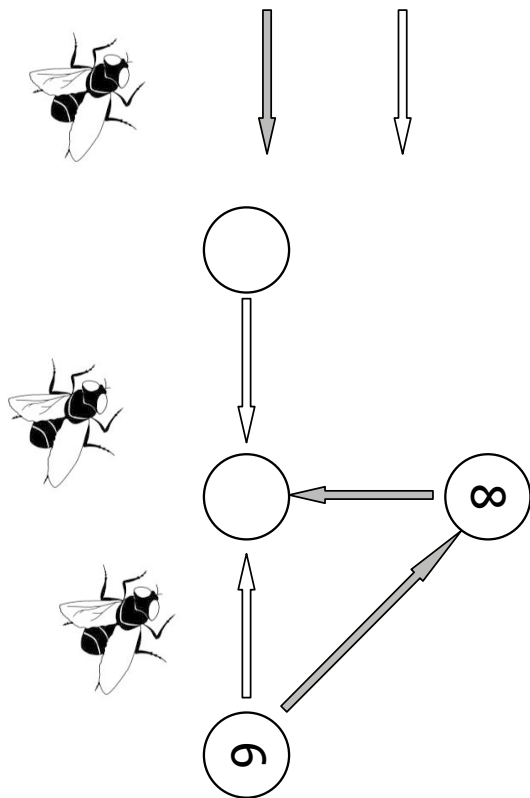
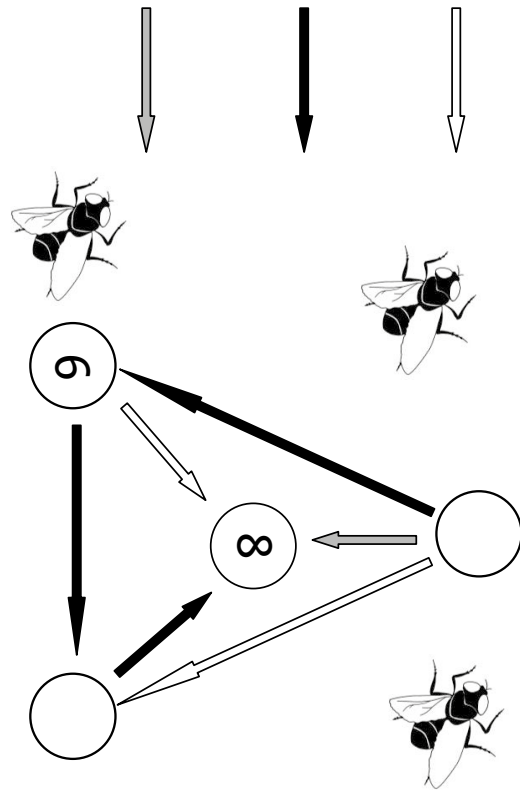
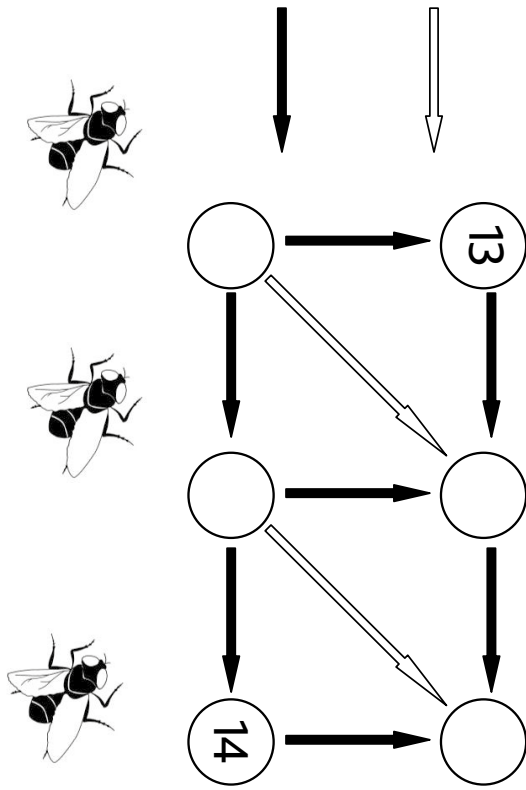


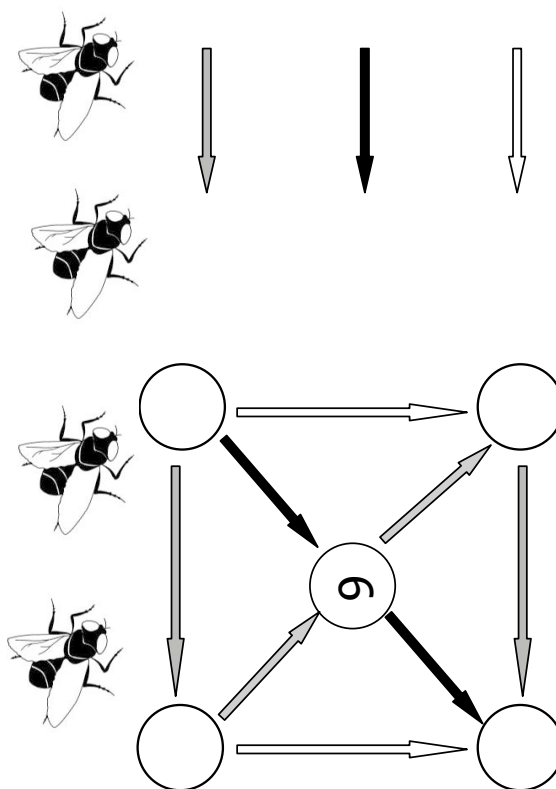
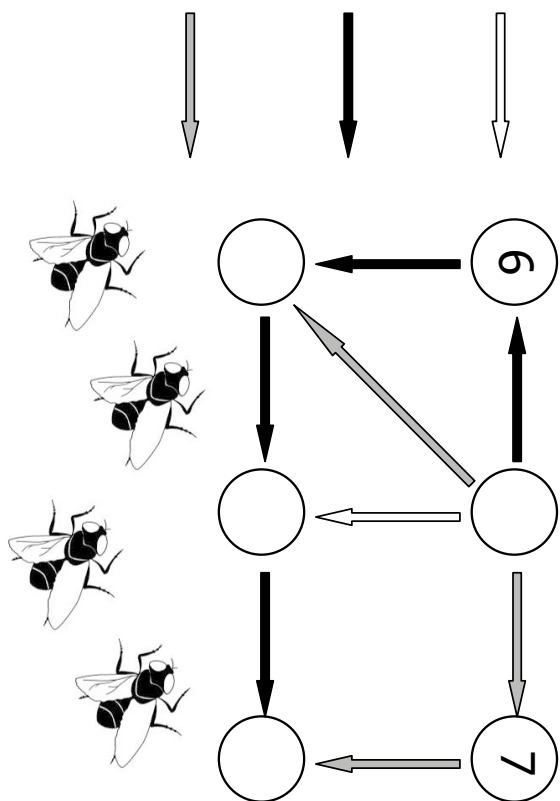
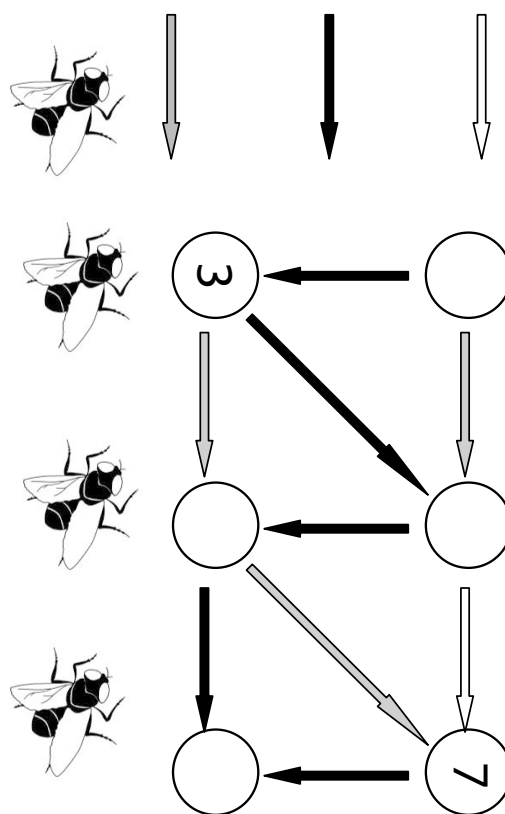
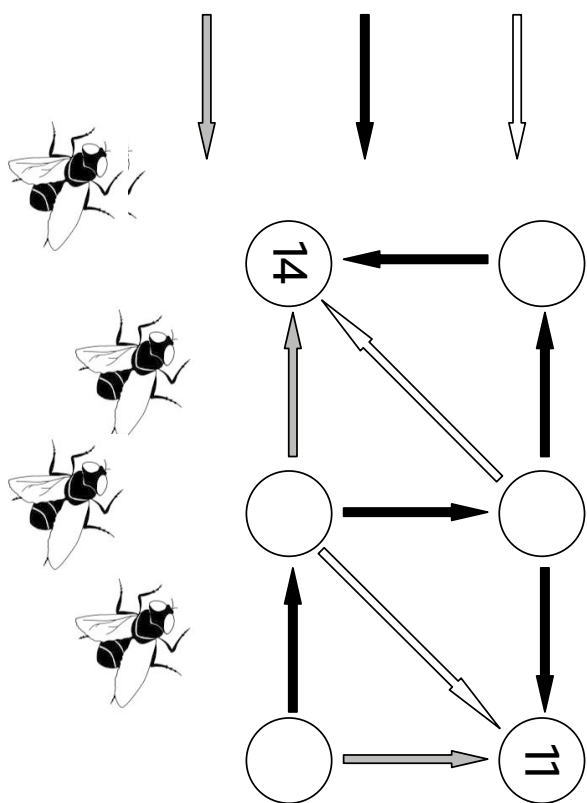












	1	2	3	4	5	6
A	J	A	P	B	R	E
B	E	P	N	O	A	V
C	O	M	D	C	D	Z
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F	D	O	N	U	M	I

1. slovo

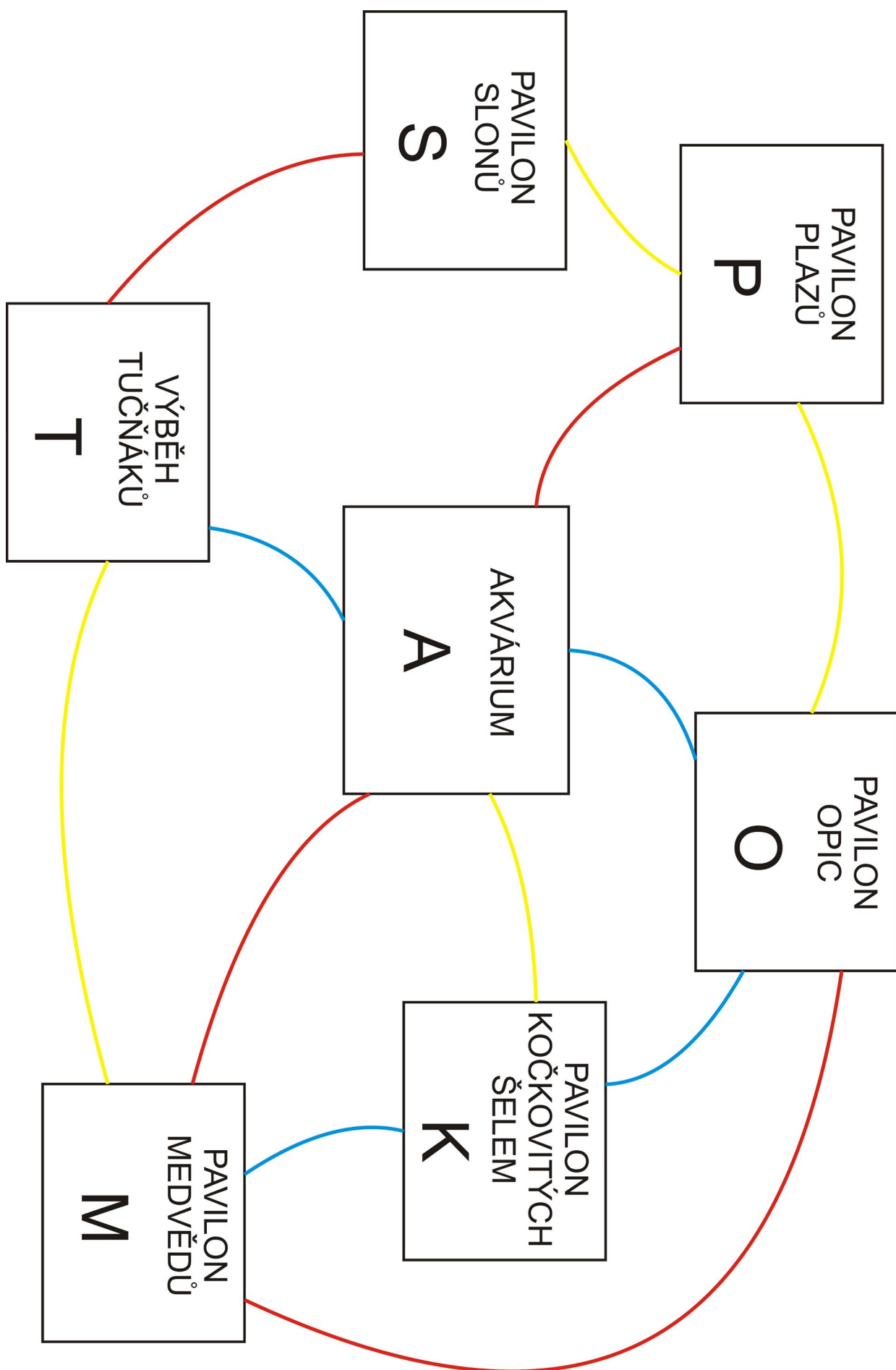
B2
D4
A1
C5
E1
F5
A6

2. slovo

C3
F2

3. slovo

E5
C1
B4



A



AKVÁRIUM

O



PAVILON OPIC

Kolektiv autorů H-mat, o.p.s. v projektu Matematické kluby

https://www.idnes.cz/hobby/gorily-v-zoo/gorily-po-povodni-venkovni-vybeh-zoo-praha.A130710_145343_gorily-v-zoo_mce/foto/MCE4c740d__TTT8472.jpg

<https://pxhere.com/sk/photo/1057245>

<https://www.zoopraha.cz/zvirata-a-expozice/kam-v-zoo/expozicni-celky/1456-vodni-svet-a-opici-ostrovy>

PAVILON MEDVĚDŮ

M



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PAVILON KOČKOVITÝCH ŠELEEM

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<https://zoomagazin.cz/berbersti-lvi-v-ceskych-zoo/>

<https://www.zoopraha.cz/aktualne/novinky-u-zvirat/6816-mlady-levhart-oblackovy-bude-mit-novy-domov?device=xhtml>

<http://www.ubytovaninajarosce.cz/mesto-hodonin.html>

PAVILON PLAZŮ

P



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<https://www.zoopraha.cz/aktualne/novinky-u-zvirat/6816-mlady-levhart-oblackovy-bude-mit-novy-domov?device=xhtml>

<http://www.ubytovaninajarosce.cz/mesto-hodonin.html>

S



PAVILON SLONŮ

VÝBĚH TUČŇÁKŮ

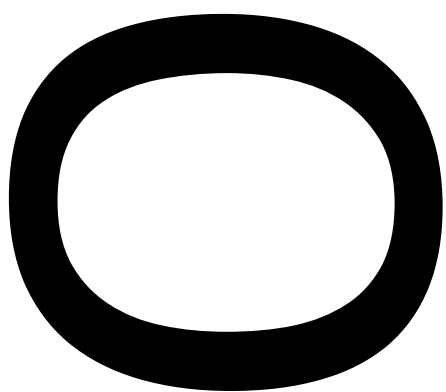
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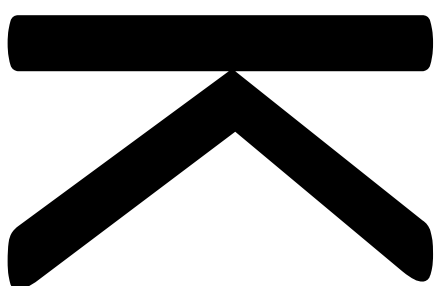
PAVILON OPIC



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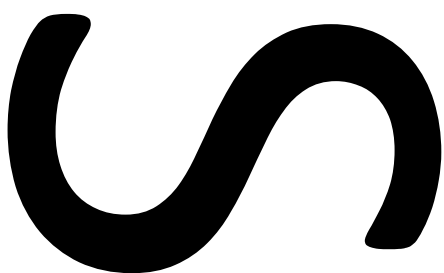
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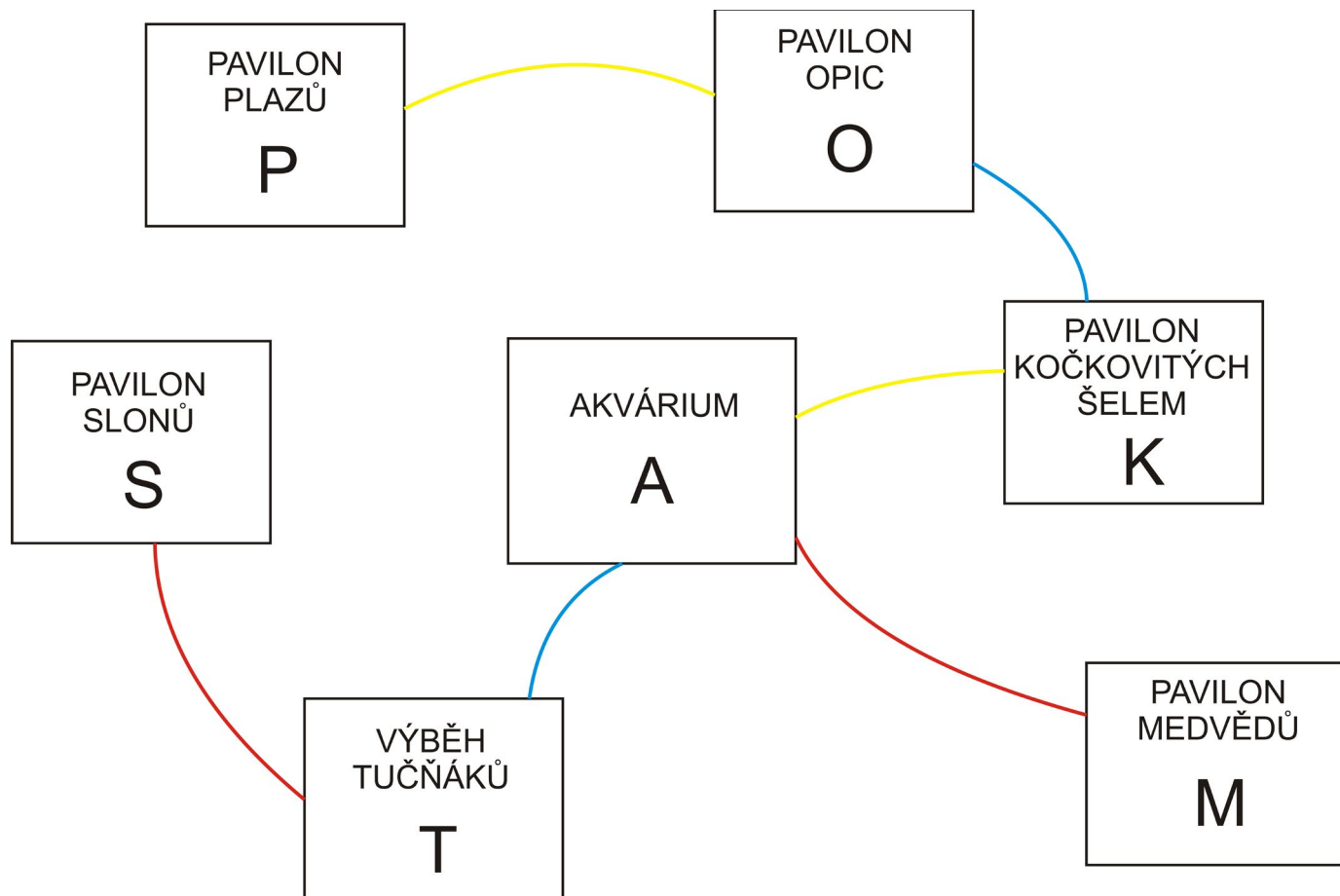
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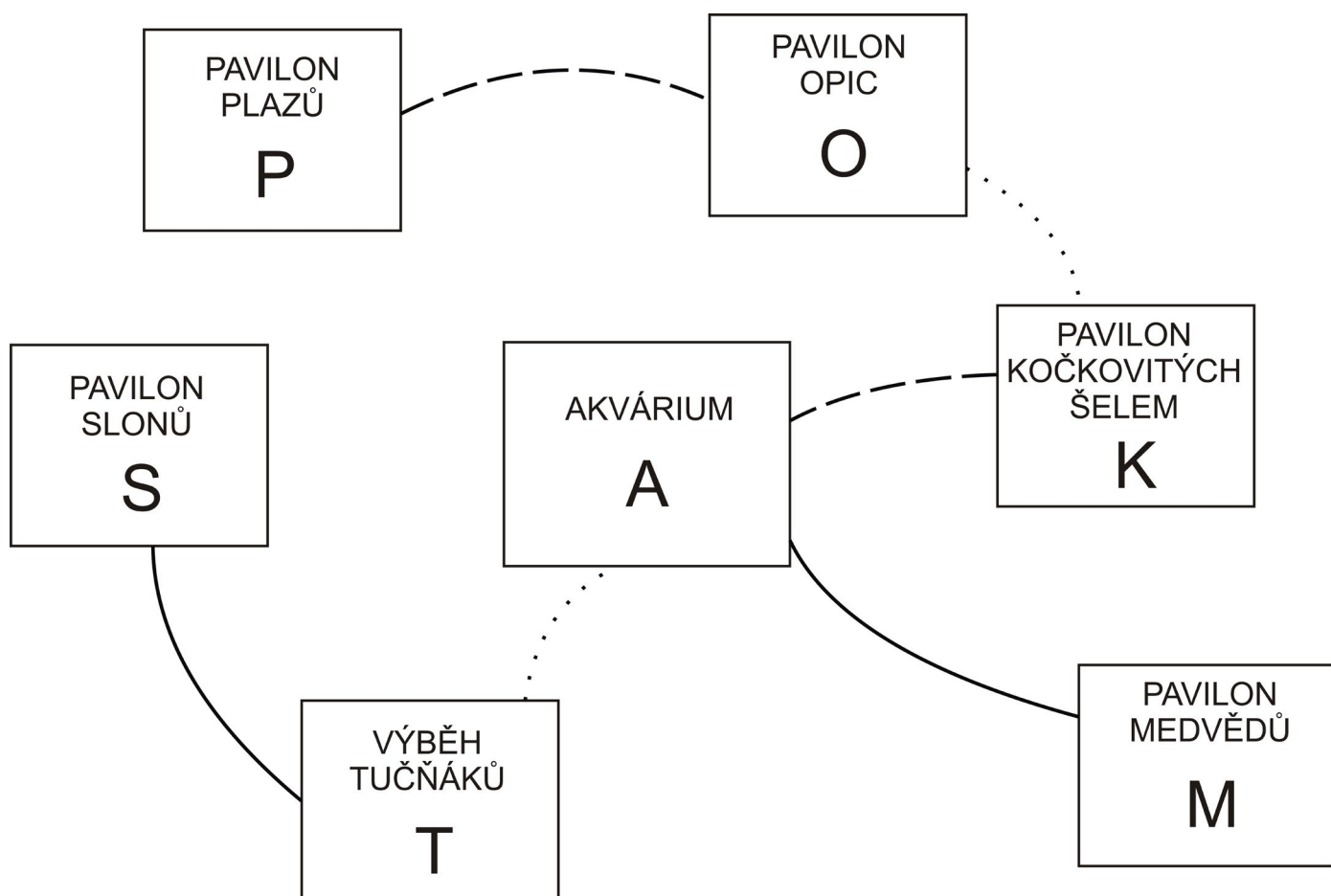
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VÝBĚH TUČŇÁKŮ







Doplň barvy stezek.

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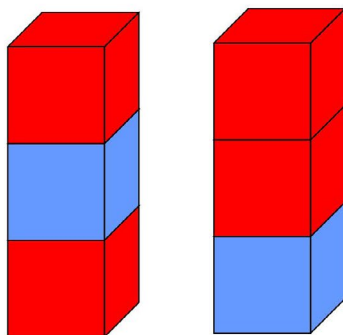
10. — — — — — —

11. — — — — — — — — —

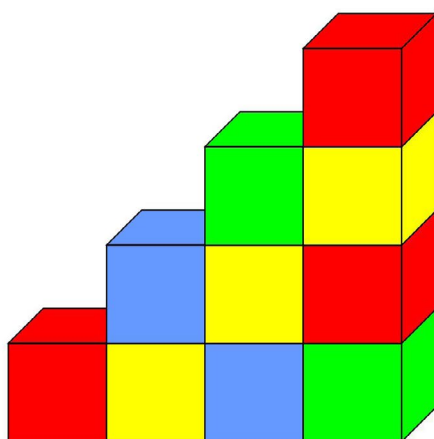
Najdeš více řešení?

12. — — — — — — — — — — —

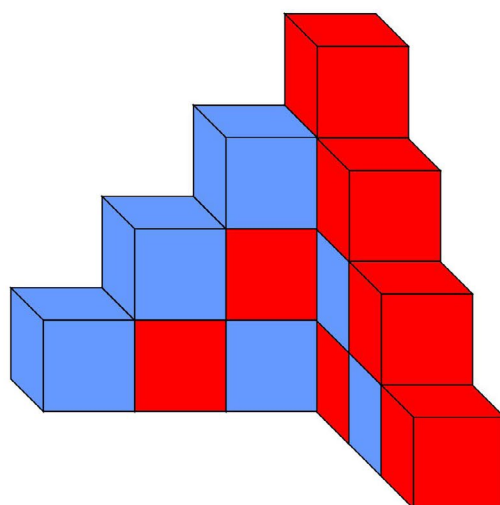
1.

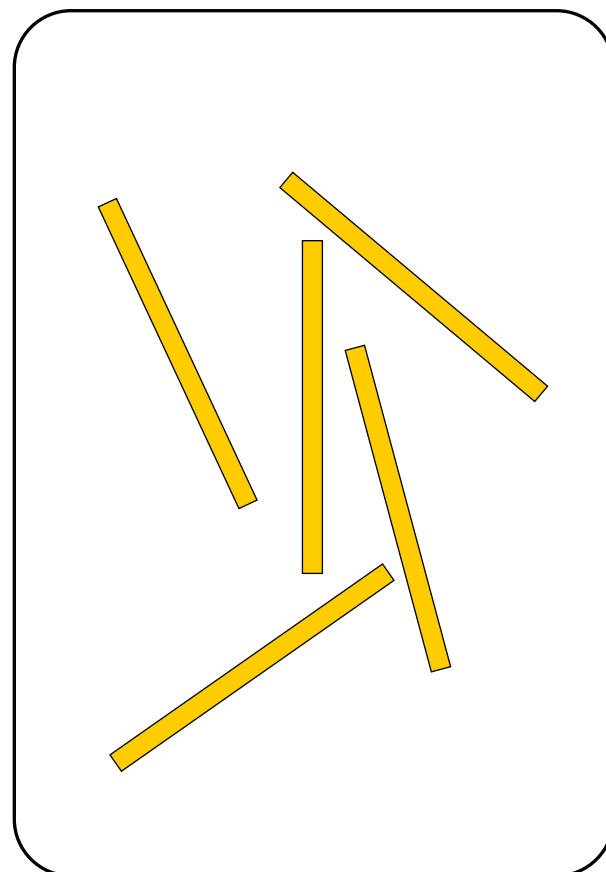
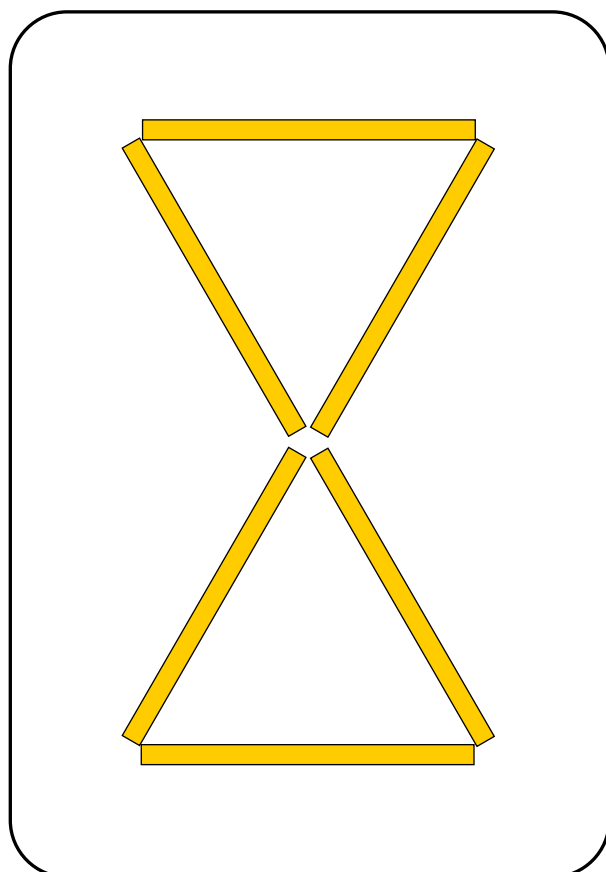
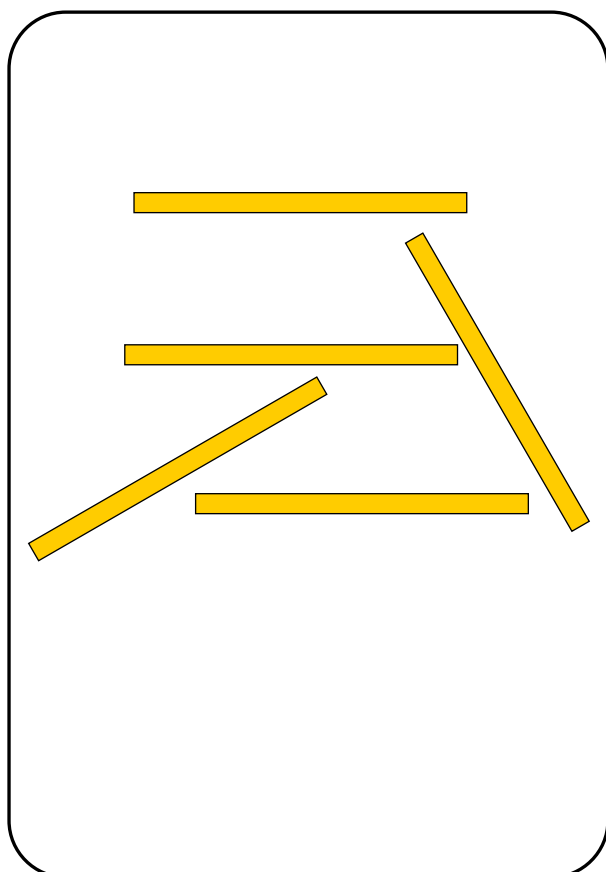
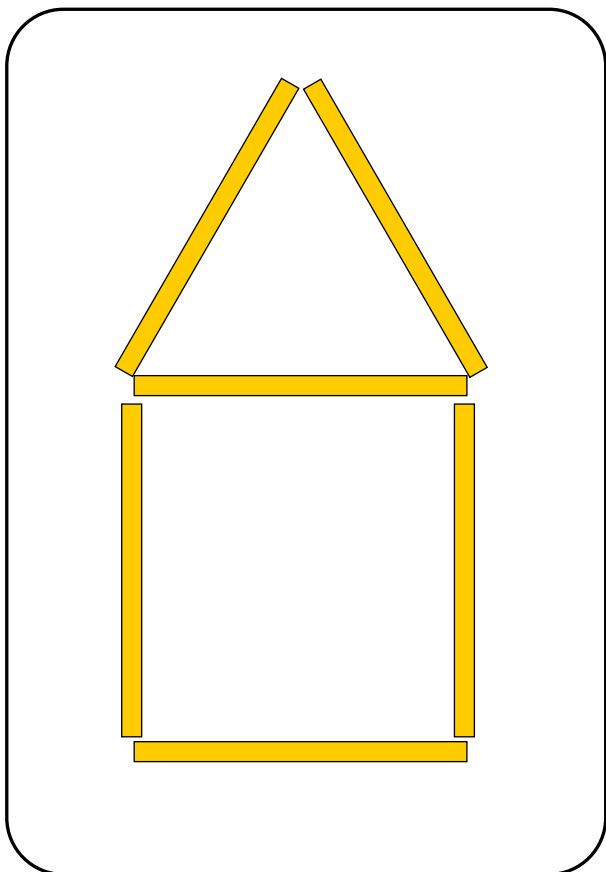


2.



3.



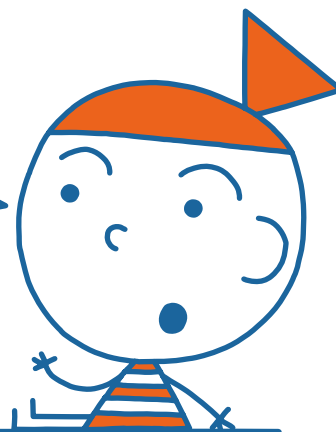
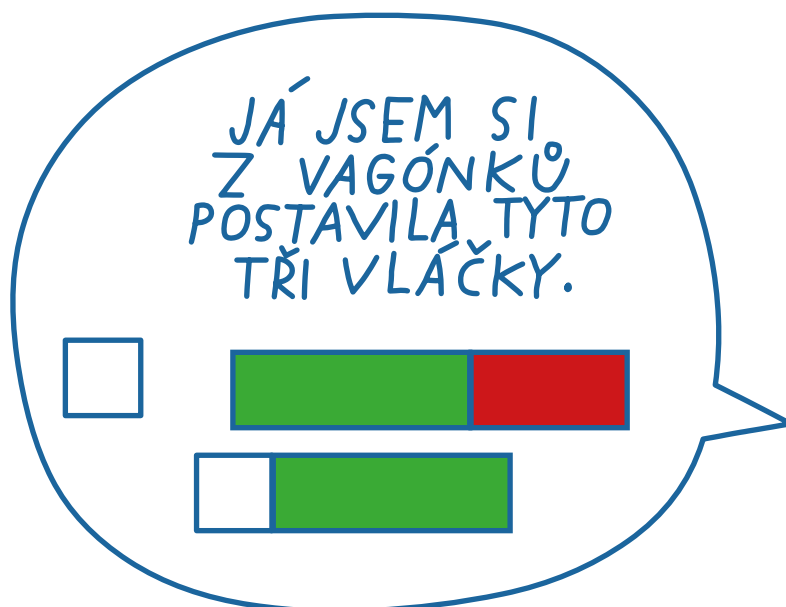


Na jednom nádraží chtěl mít pan vrchní železničář tu největší mašinku na světě, a tak si ji nechal vyčarovat od černokněžníka Zababy. Ta mašinka byla ale tak dlouhá, že se nevešla do žádné zatačky, a tak ji schovali do kůlničky a tam stála a nejezdila. Černokněžník Zababa však předpověděl, že přijde někdo, kdo nemá nic společného s nádražím a ten že je vysvobodí od kouzelnické mašinky. A tak pan železničář Blahoš chodil vyhlížet, jestli už se pomoc neblíží.

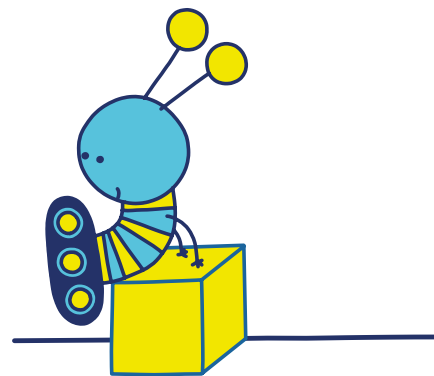
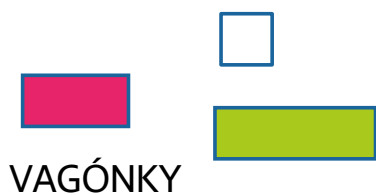
Jednoho dne přišel na nádraží Dědeček s malým chlapečkem. Chlapeček poskakoval mezi kolejemi, když se najednou zastavil a ptal se dědečka, proč ta mašinka leze z kůlničky. To zaslechl i pan Blahoš a vzpomněl si na to, co říkal černokněžník Zababa. Hned se vydal za chlapečkem. Chlapeček se jmenoval Pavlíček, ale doma mu říkali Pašíček, protože měl rád mašinky a nádraží. Pašíček se hned ptal, proč ta mašinka není celá v kůlničce. Pan Blahoš mu na to odpověděl, že je mašinka moc dlouhá, protože ji postavil černokněžník Zababa. Potřebovali by mnoho obyčejných lokomotiv, ale nemohou si je koupit, protože všechny peníze dali za kouzelnickou mašinku. Pašíček chvíli přemýšlel a pak řekl: „Proč si tedy neuděláte mašinky z té velké? Vezměte pilu a mašinku rozřežte. Koleček má až dost.“ Pan Blahoš zavolal nejvyššímu panu železničáři. Když pan nejvyšší železničář přišel, zamyslel se a smutně řekl: „Jak bychom z ní mohli udělat mnoho malých mašinek? Má sice spoustu koleček, ale jenom jeden komínek. A ty přece víš, že každá mašinka potřebuje komínek, aby mohla kouřit a pouštět jiskry.“ Pašíček se usmál a řekl, že komínky se mohou udělat z toho, co zbyde, až se velká mašinka rozřeže.

A to už tu byli dělníci, kteří mašinku rozřezali na deset kusů. Každá nová mašinka měla alespoň tři páry koleček, ale komínek byl jen jeden. A tak posbírali všechny odřezané kousky a slévači a kováři je spojili do takové dlouhé roury. Když rozměřovali komínky, Pašíček začal počítat jedna, dvě, tři, čtyři, pět, šest, sedm a pak se zaškobrtl, protože počítat ještě dobře neuměl, osmičku vynechal a řekl hned devět. Přišlo se na to, až když bylo všechno hotovo. A tak jedna mašinka zůstala bez komínku a udělali z ní mašinku elektrickou, která nekouří. Pašíček dostal za odměnu povolení, že může jezdit všemi mašinkami kdy chce a kam chce.

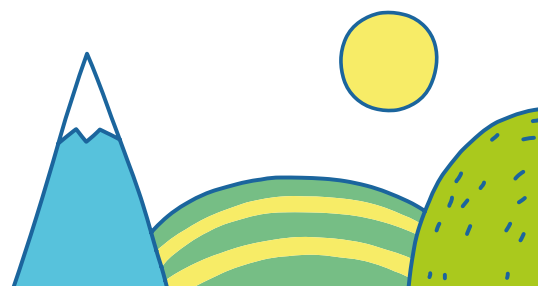
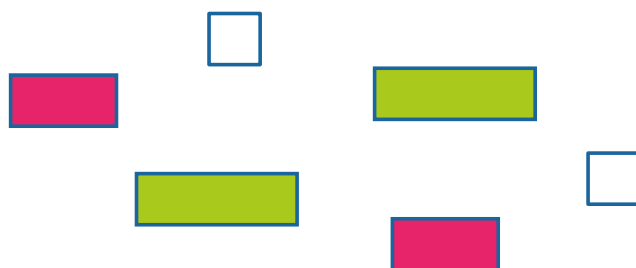
Z VAGÓNKŮ POSTAV VLÁČKY.



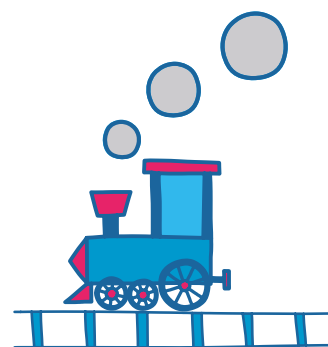
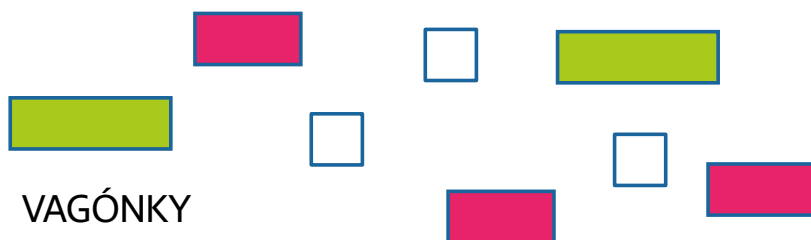
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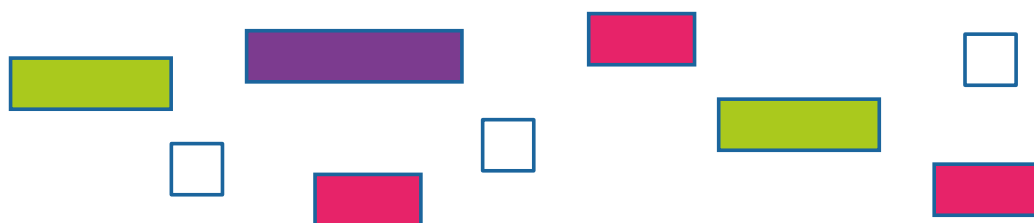
2. POSTAV STEJNĚ DLOUHÉ VLÁČKY.



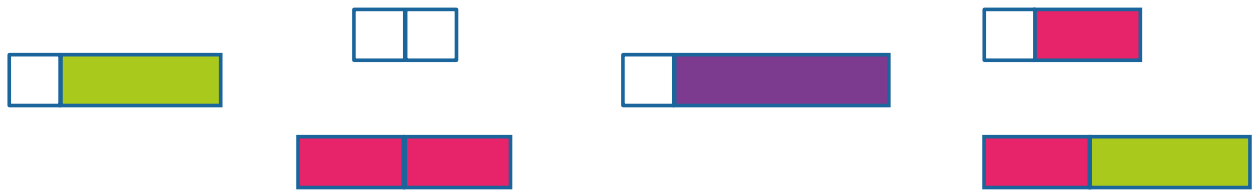
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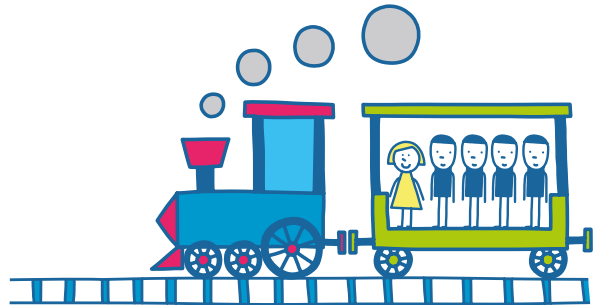
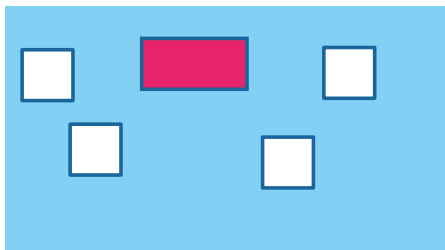
4. POSTAV STEJNĚ DLOUHÉ VLÁČKY JAKO .



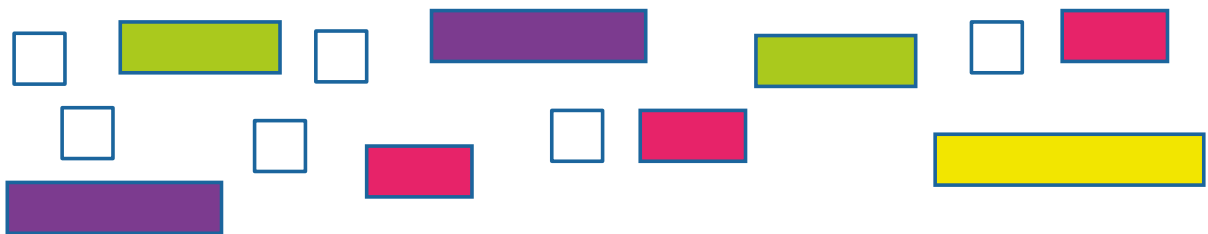
5. NAJDI VAGÓNEK STEJNĚ DLOUHÝ, JAKO JSOU VLÁČKY NA OBRÁZKU.



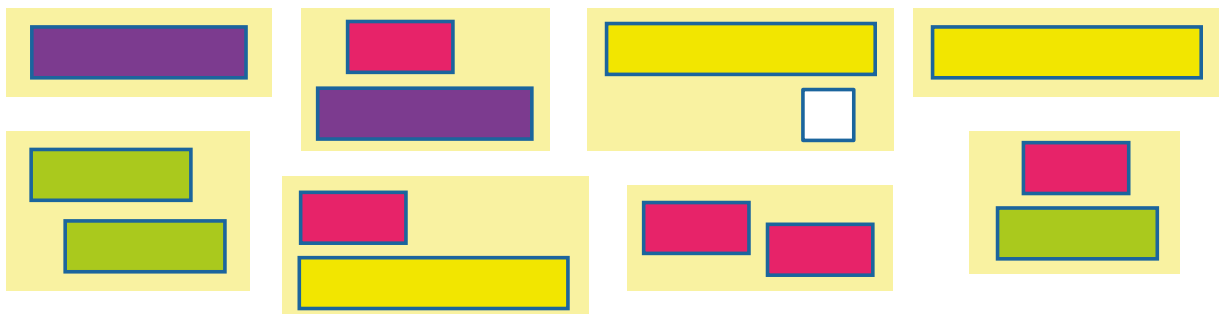
6. POSTAV STEJNĚ DLOUHÉ VLÁČKY JAKO .



7. POSTAV STEJNĚ DLOUHÉ VLÁČKY JAKO .



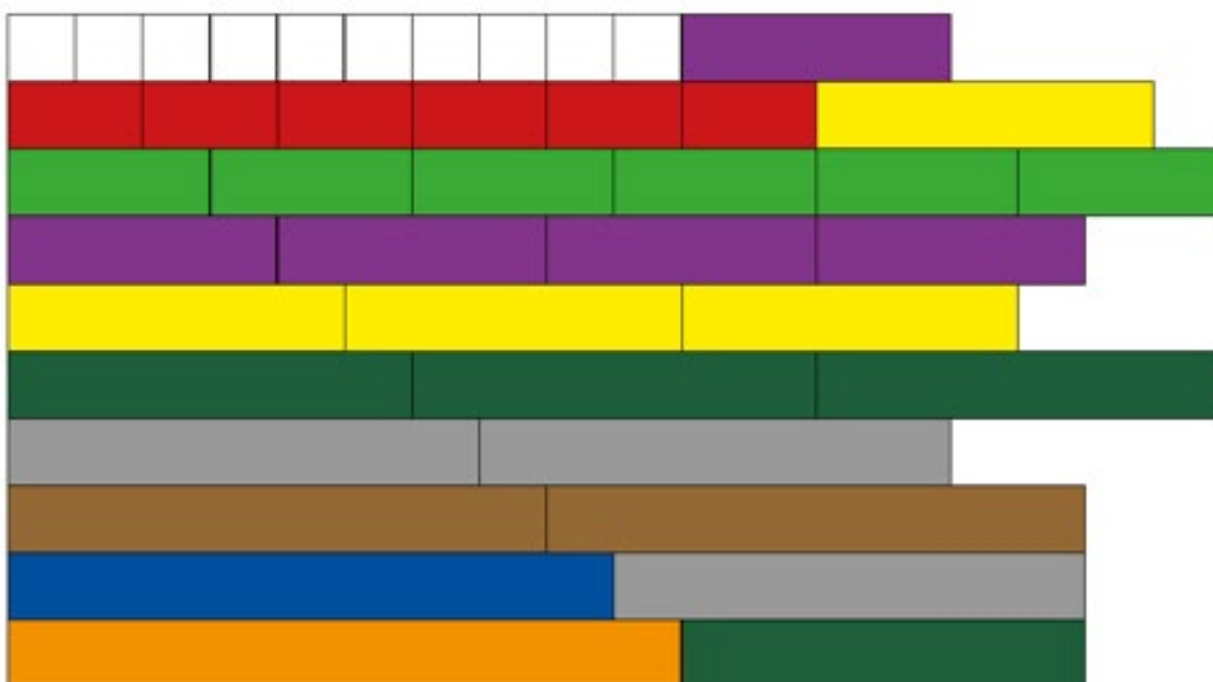
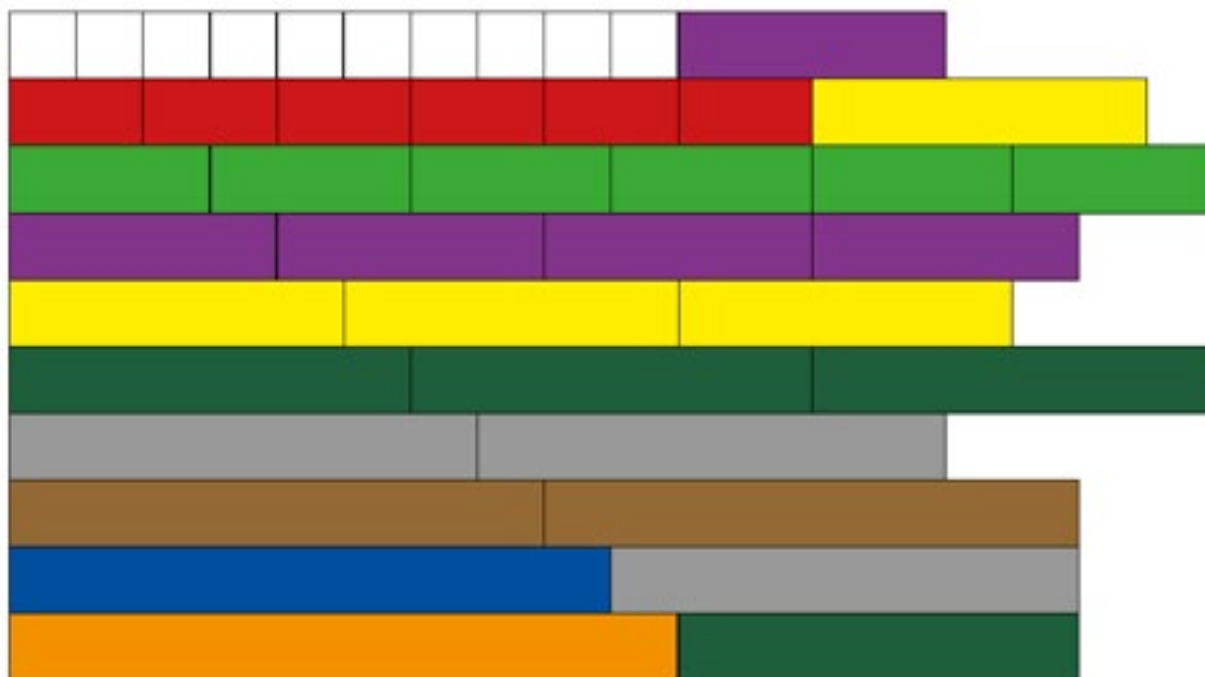
8. SPOJ K SOBĚ STEJNĚ DLOUHÉ VLÁČKY.

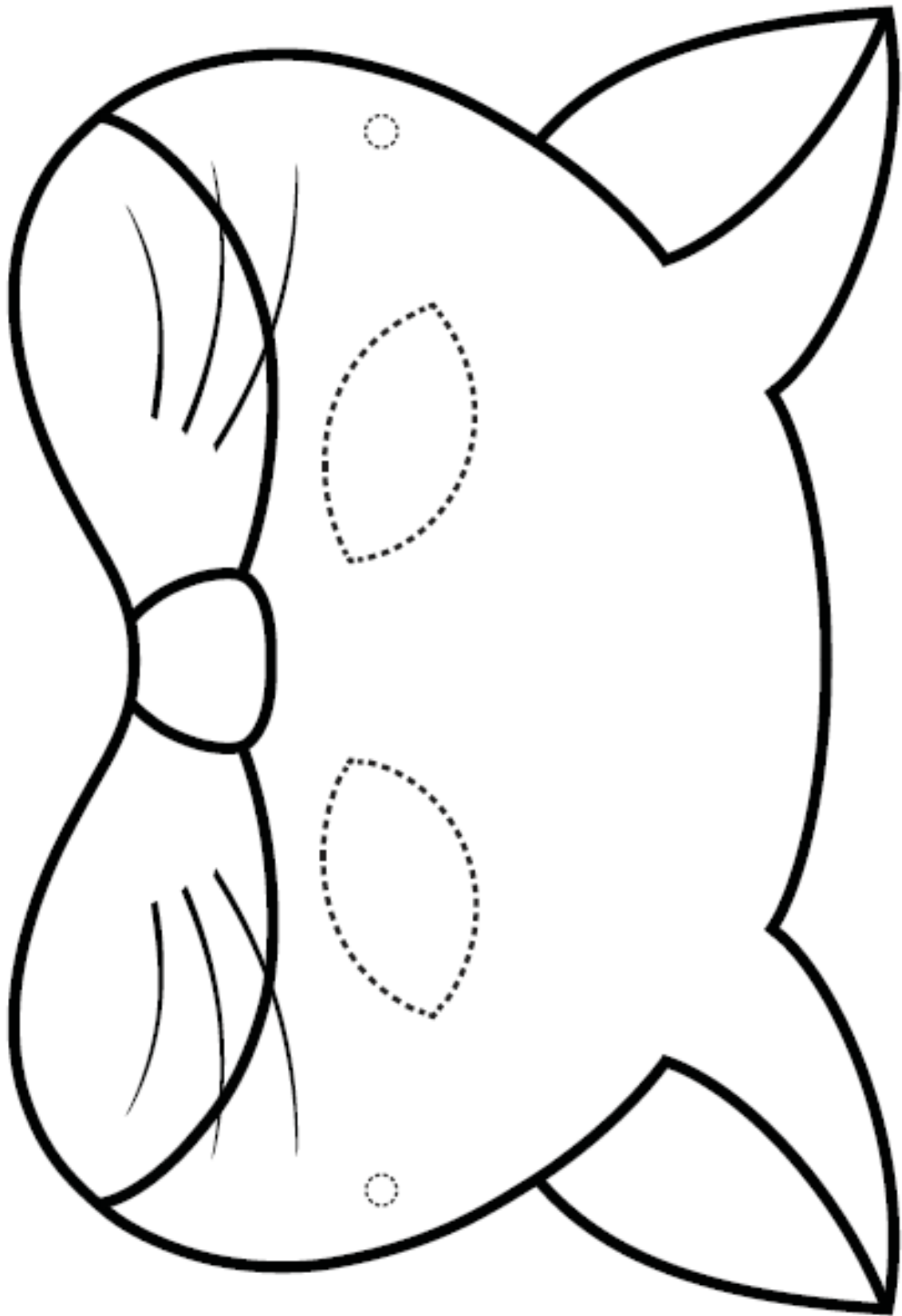


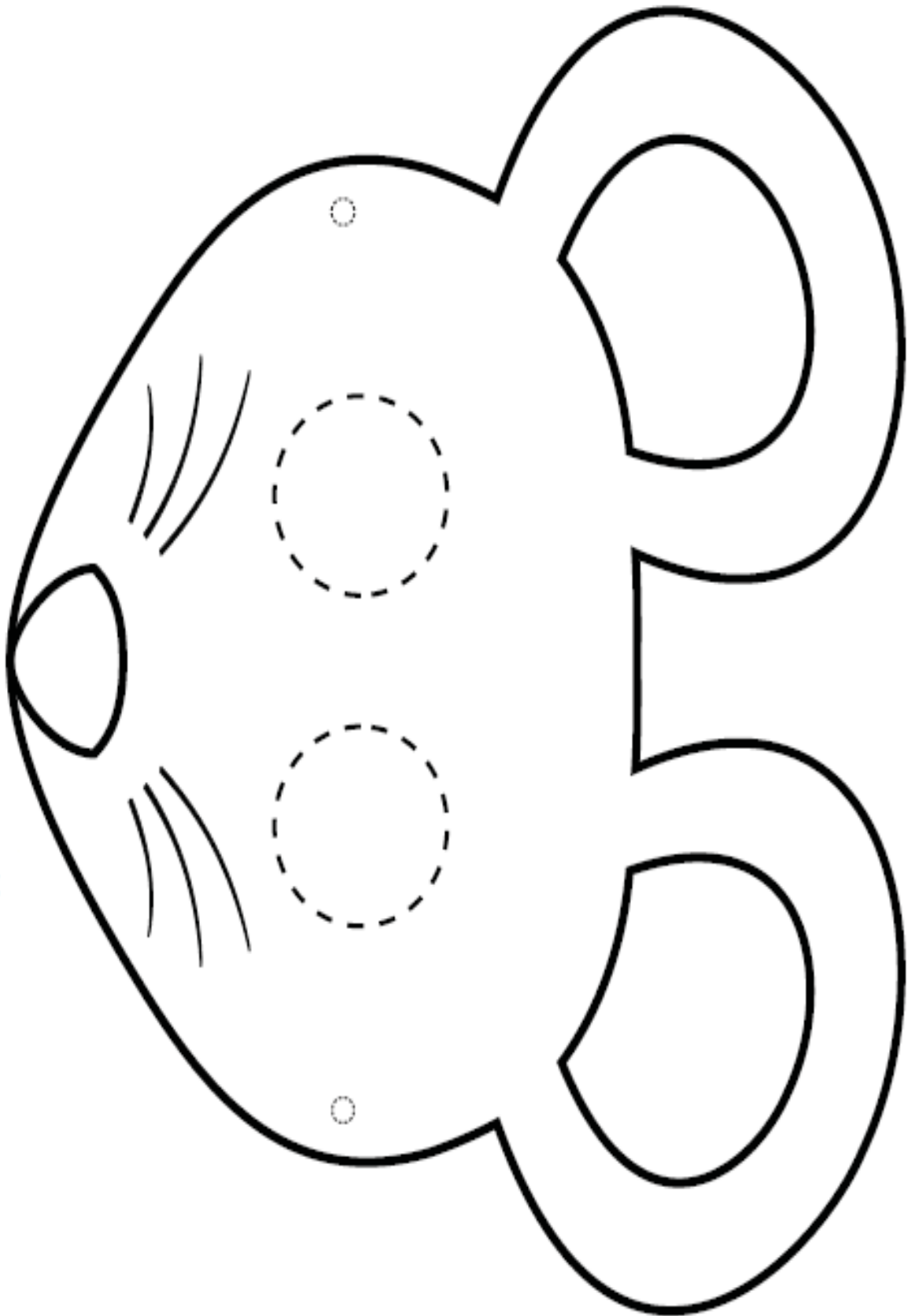
9. JAKÝ VLÁČEK JE DELŠÍ? ZAPIŠ A ZAKROUŽKUJ.

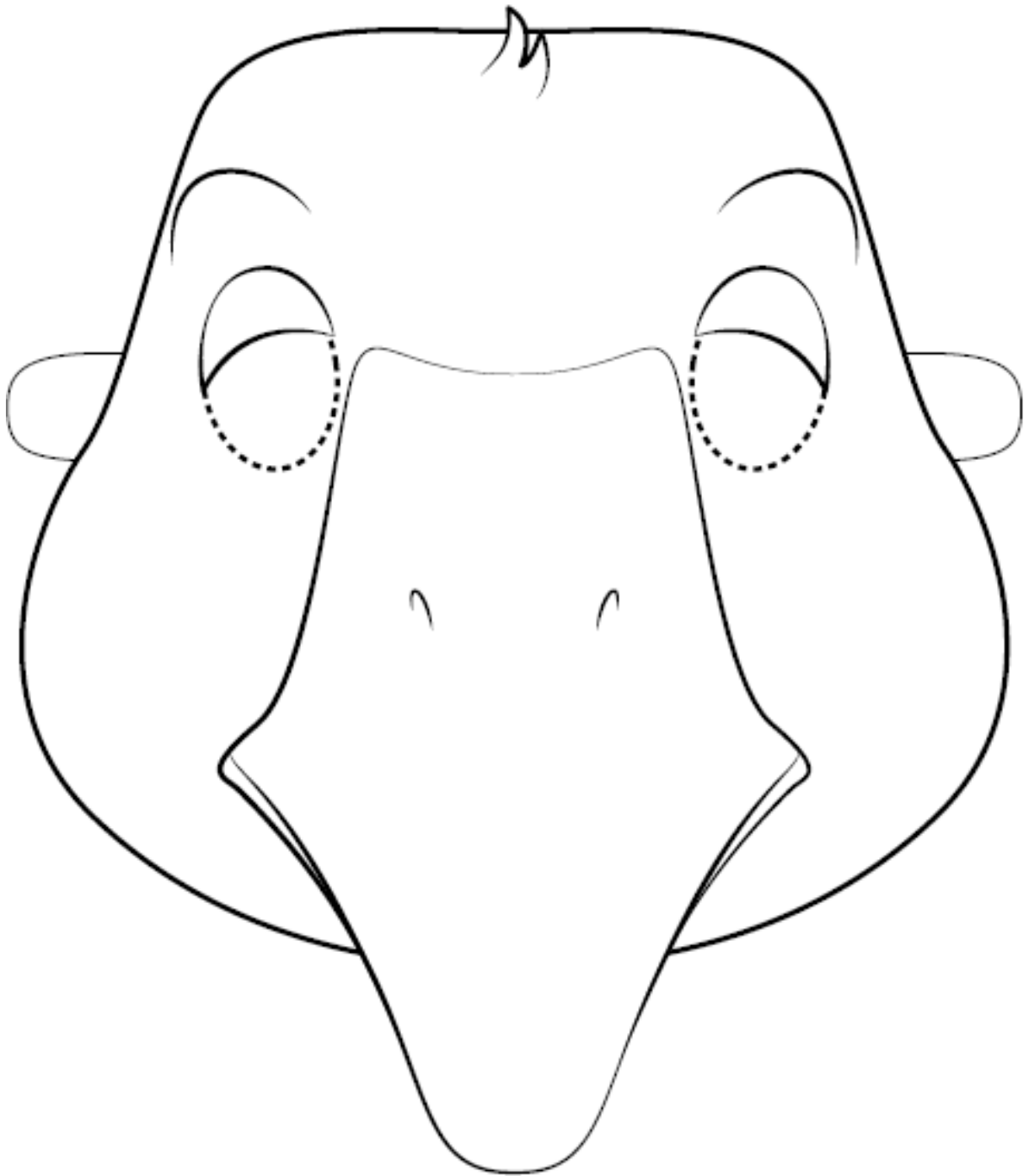
10. DOPLŇ JEDEN VAGÓNEK, ABY VLÁČKY BYLY STEJNĚ DLOUHÉ.

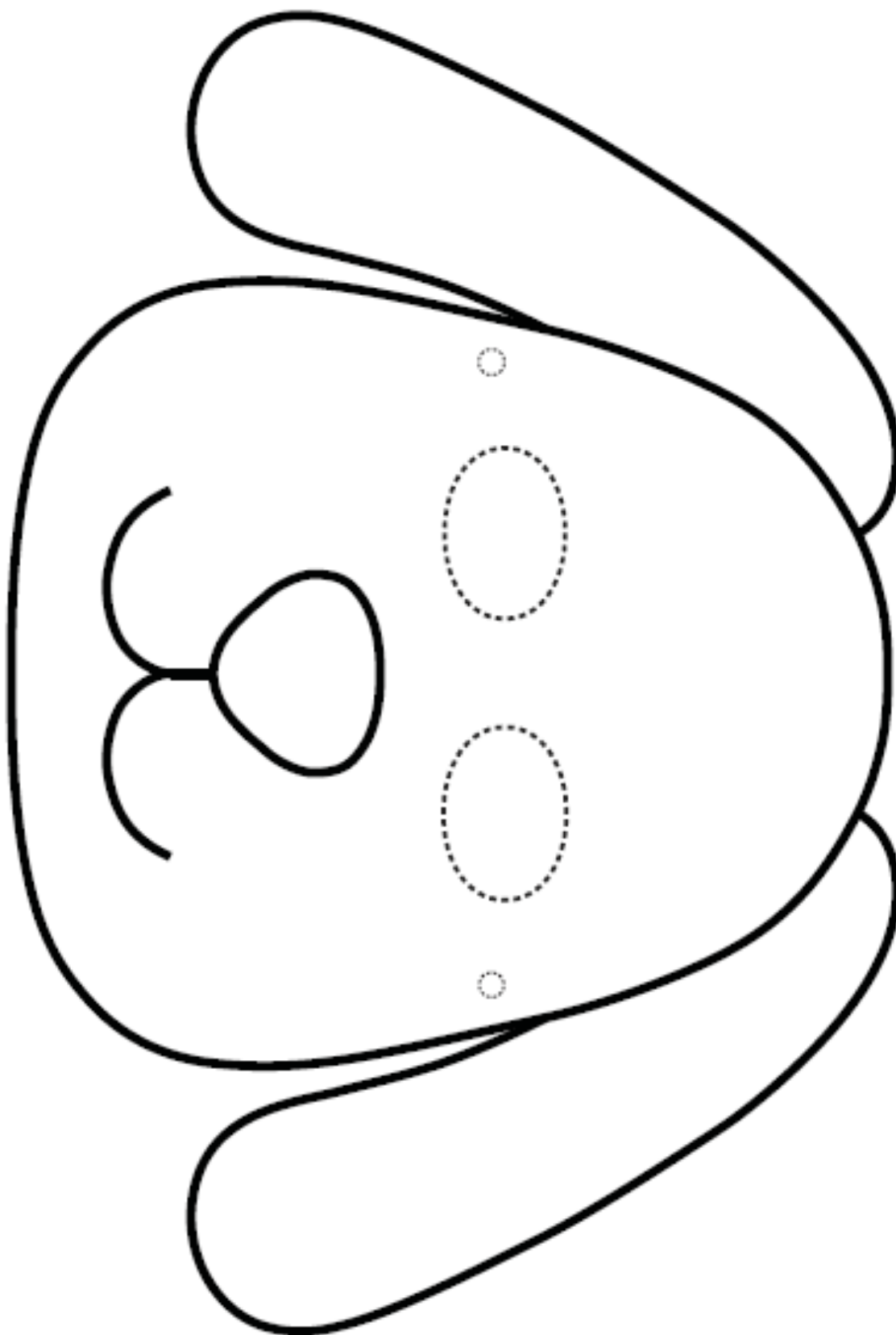
11. JAKÝ VAGÓNEK MÁM ODPOJIT?

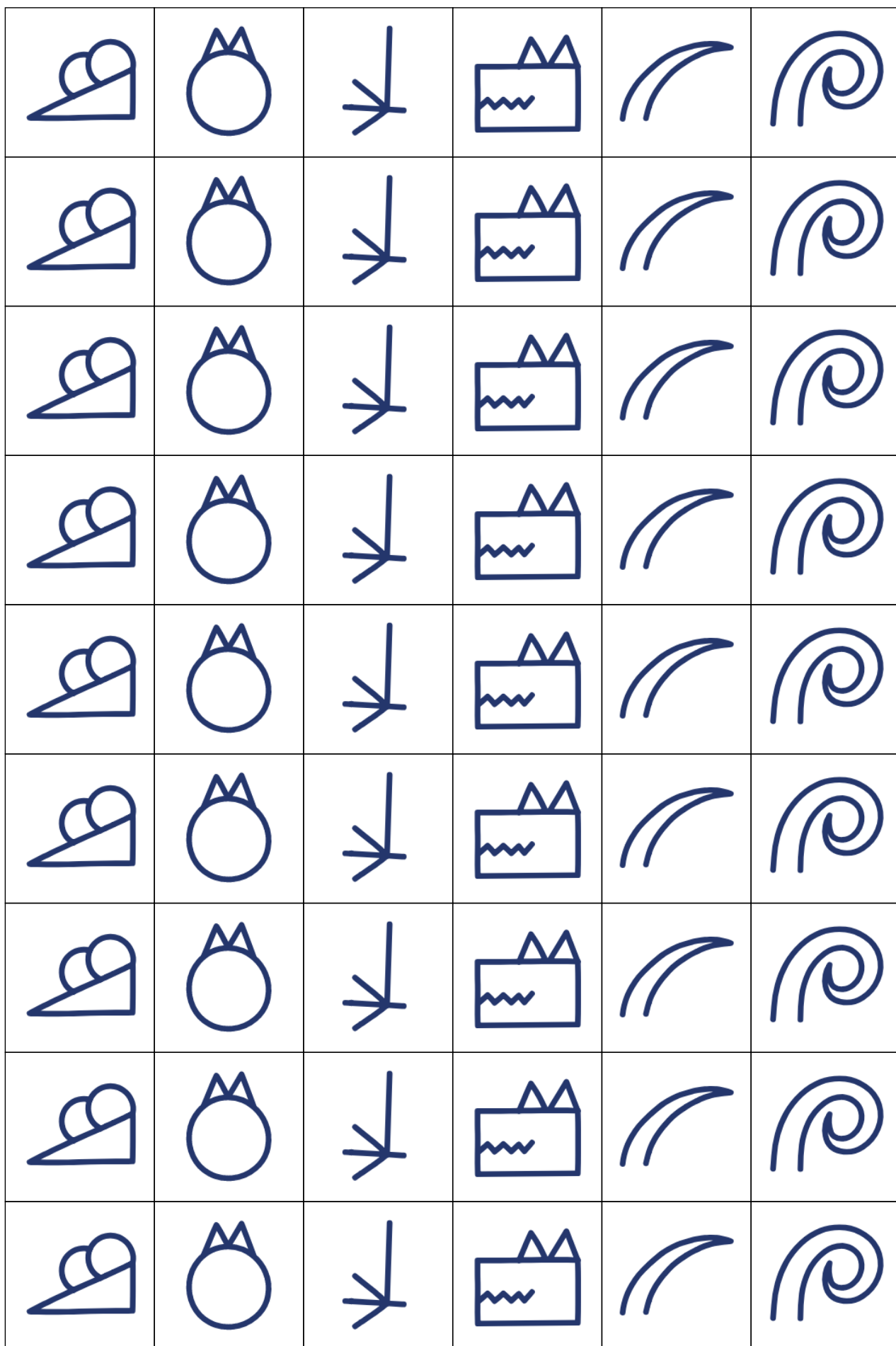

























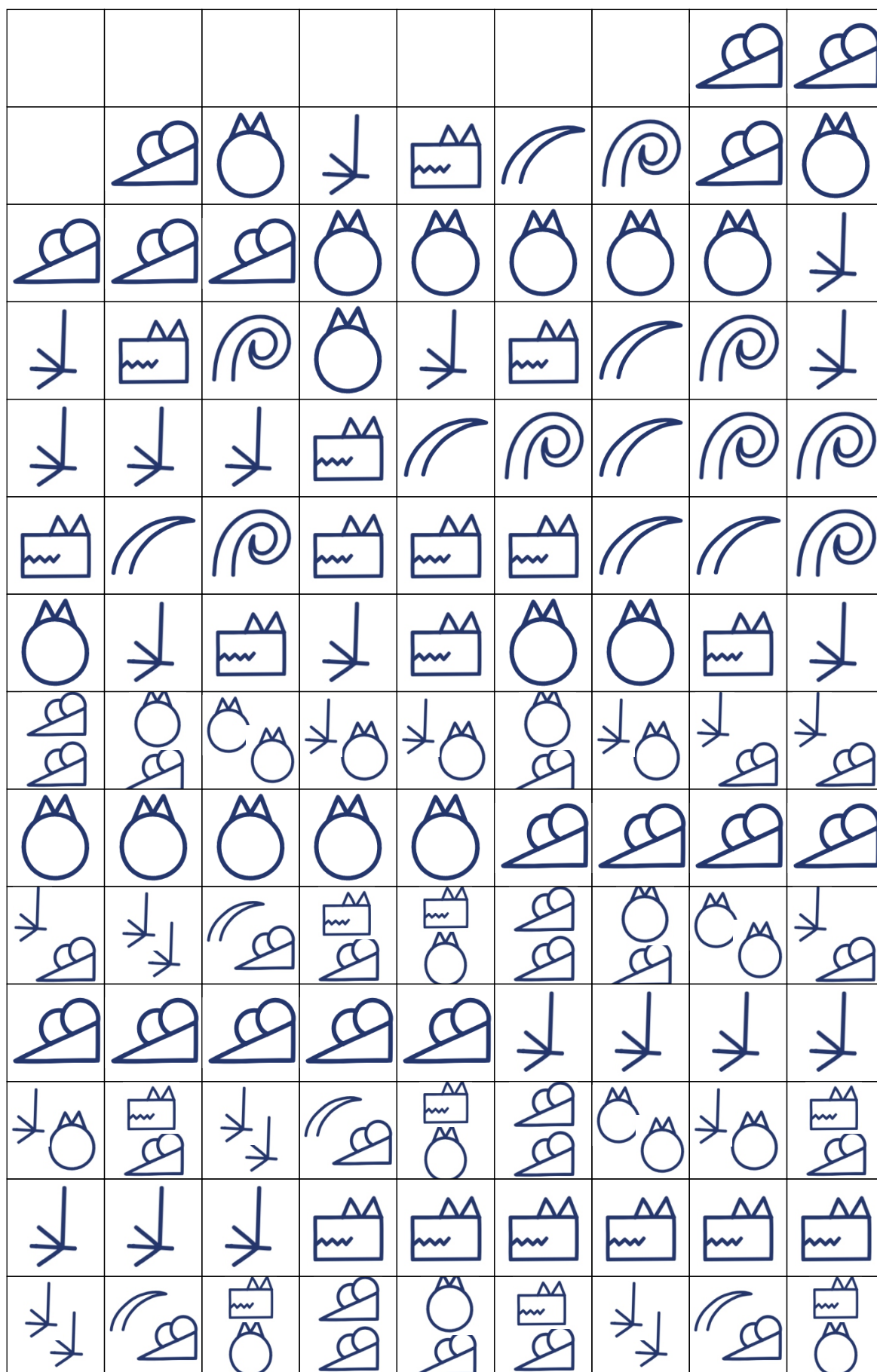


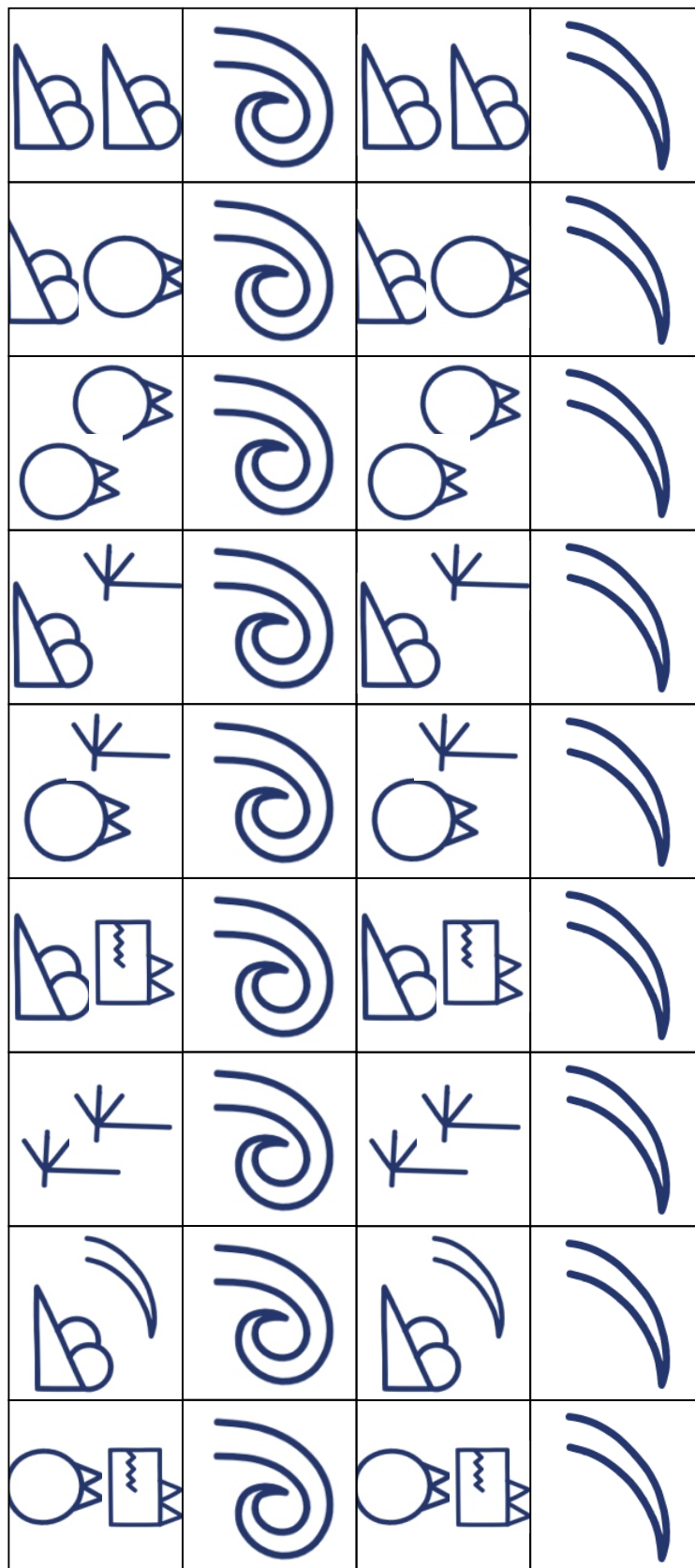










Rozděl zvířátka do dvou stejně silných družstev.



Které zvířátko má přijít slabšímu družstvu na pomoc?

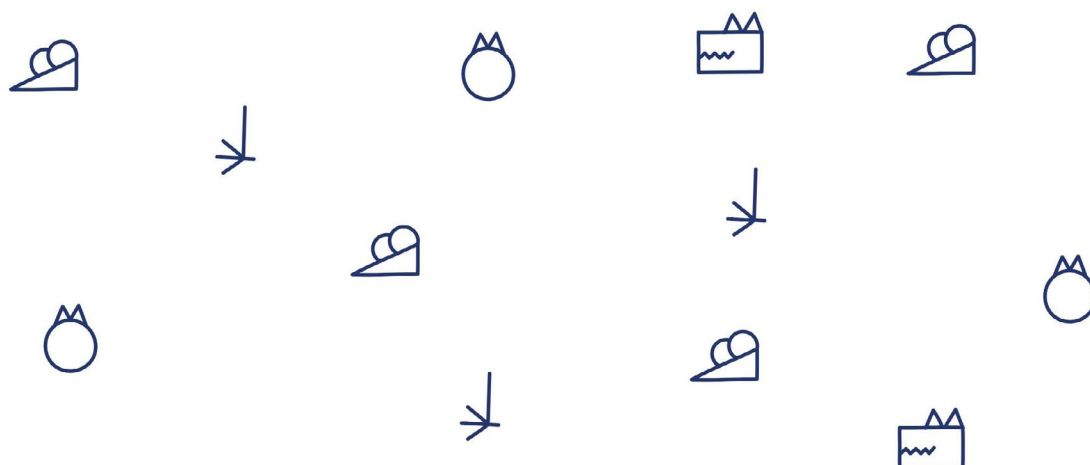
$$2 \text{ bears} = 1 \text{ bird}$$

$$1 \text{ bear} + 1 \text{ bird} = 1 \text{ hedgehog} + 1 \text{ bird}$$

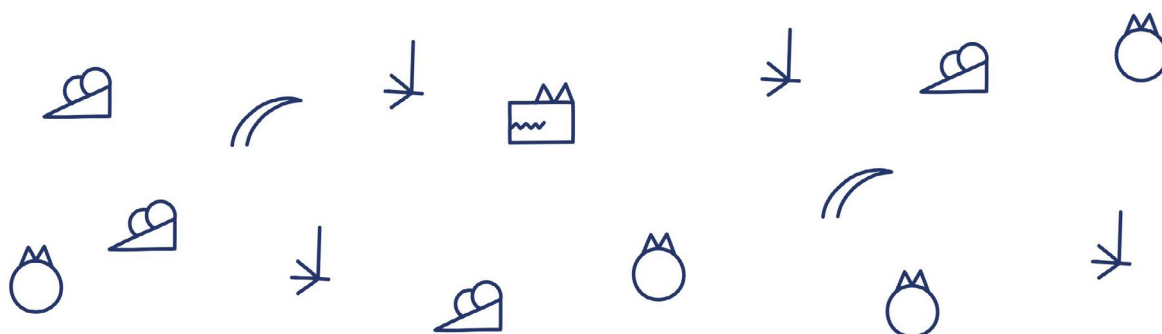
$$1 \text{ hedgehog} + 1 \text{ rabbit} + 1 \text{ bird} = 1 \text{ hedgehog} + 1 \text{ rabbit}$$

$$1 \text{ hedgehog} + 1 \text{ bear} + 1 \text{ bird} + 1 \text{ rabbit} = 1 \text{ rabbit} + 1 \text{ rabbit} + 1 \text{ bear} + 1 \text{ bear} + 1 \text{ bear} + 1 \text{ bird} + 1 \text{ bird} + 1 \text{ bird}$$

Rozděl zvířátka do tří stejně silných družstev.



Rozděl zvířátka do dvou stejně silných družstev.



Které zvířátko má přijít slabšímu družstvu na pomoc?

$$2 \text{ birds} + 1 \text{ insect} = 1 \text{ fish} + 1 \text{ insect}$$

$$1 \text{ fish} + 1 \text{ bear} + 1 \text{ bear} = 3 \text{ insects}$$

$$1 \text{ fish} + 1 \text{ fish} + 3 \text{ insects} = 2 \text{ birds} + 1 \text{ bear} + 1 \text{ bear} + 1 \text{ bear}$$

$$4 \text{ bears} + 1 \text{ insect} + 1 \text{ bear} + 1 \text{ bear} = 2 \text{ fish} + 3 \text{ insects}$$

Která dvě zvířátka mají přijít slabšímu družstvu na pomoc?

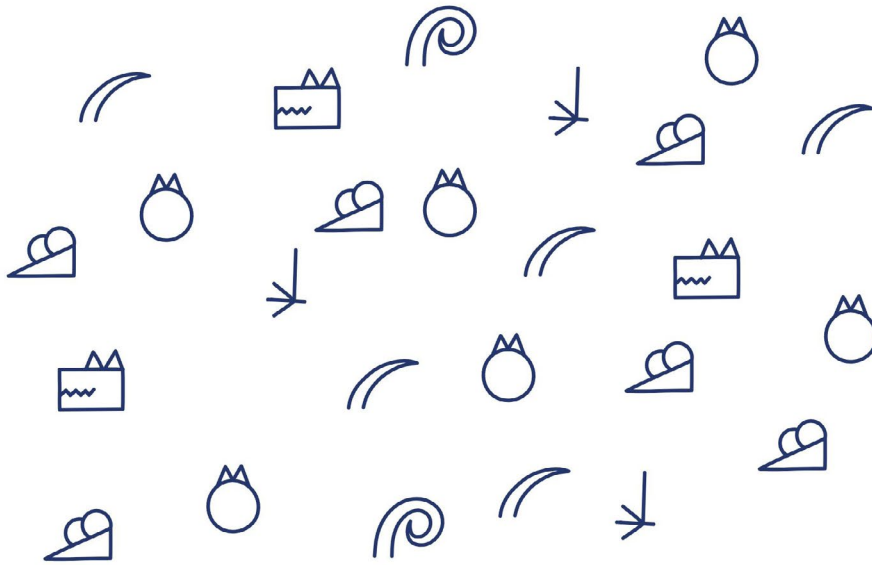
$$1 \text{ fish} + 3 \text{ bears} = 3 \text{ birds} + 1 \text{ bear}$$

$$1 \text{ insect} + 1 \text{ bear} + 1 \text{ bear} = 2 \text{ bears} + 3 \text{ insects}$$

$$2 \text{ fish} + 1 \text{ bear} + 1 \text{ bear} + 1 \text{ bear} = 4 \text{ bears} + 3 \text{ birds}$$

$$3 \text{ insects} + 4 \text{ bears} = 3 \text{ fish} + 3 \text{ birds} + 3 \text{ bears}$$

Rozděl zvířátka do dvou stejně silných družstev.



Které zvířátko má přijít slabšímu družstvu na pomoc?

$$2 \text{ birds} + 1 \text{ insect} + 1 \text{ snake} = 1 \text{ fish} + 1 \text{ bear} + 1 \text{ bird} + 1 \text{ insect}$$

$$2 \text{ bears} + 1 \text{ bird} + 3 \text{ insects} = 1 \text{ snake} + 2 \text{ fish} + 1 \text{ bear}$$

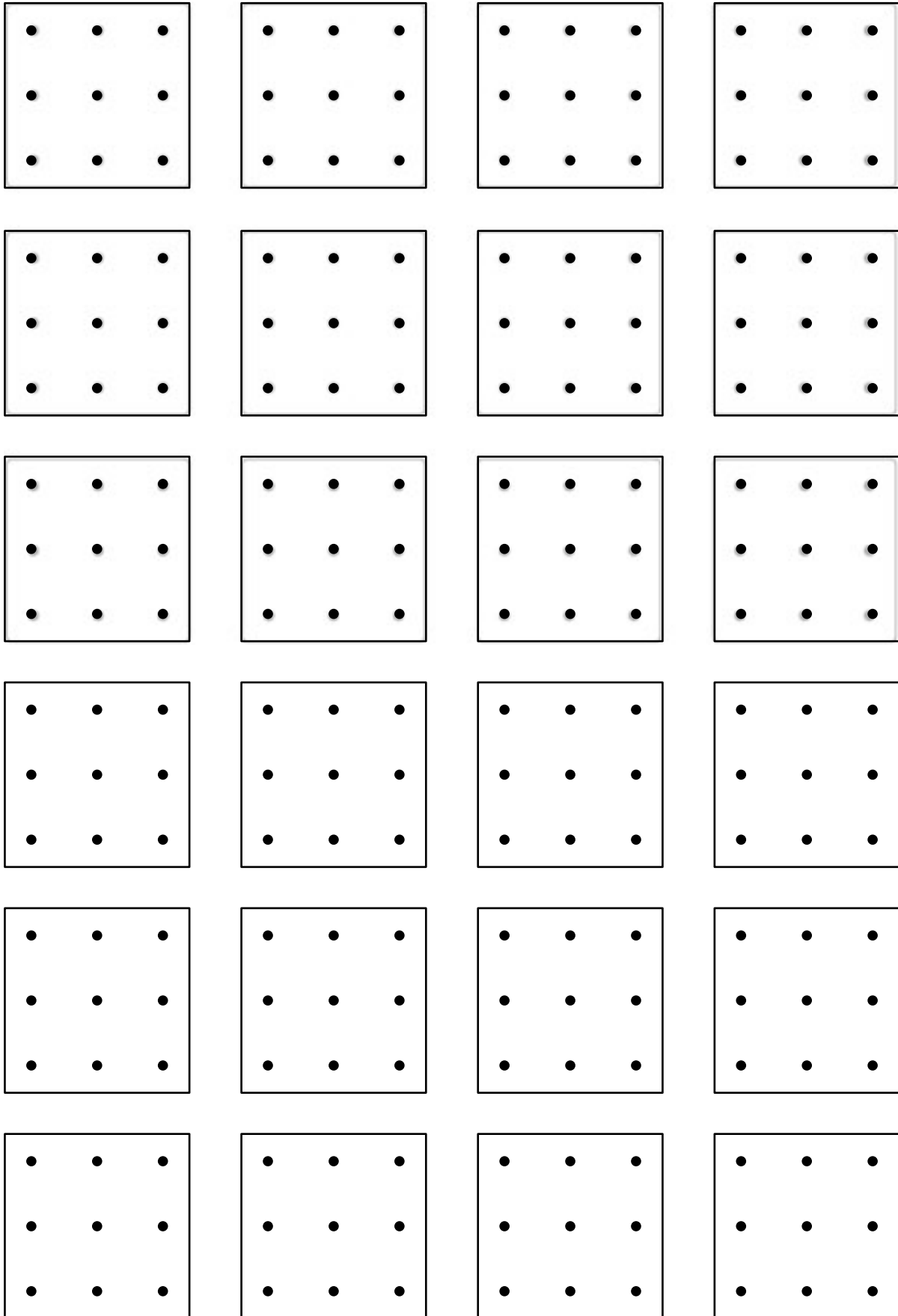
$$2 \text{ birds} + 1 \text{ bear} + 2 \text{ snakes} + 5 \text{ birds} + 1 \text{ insect} = 3 \text{ fish} + 3 \text{ insects} + 2 \text{ bears} + 1 \text{ bird}$$

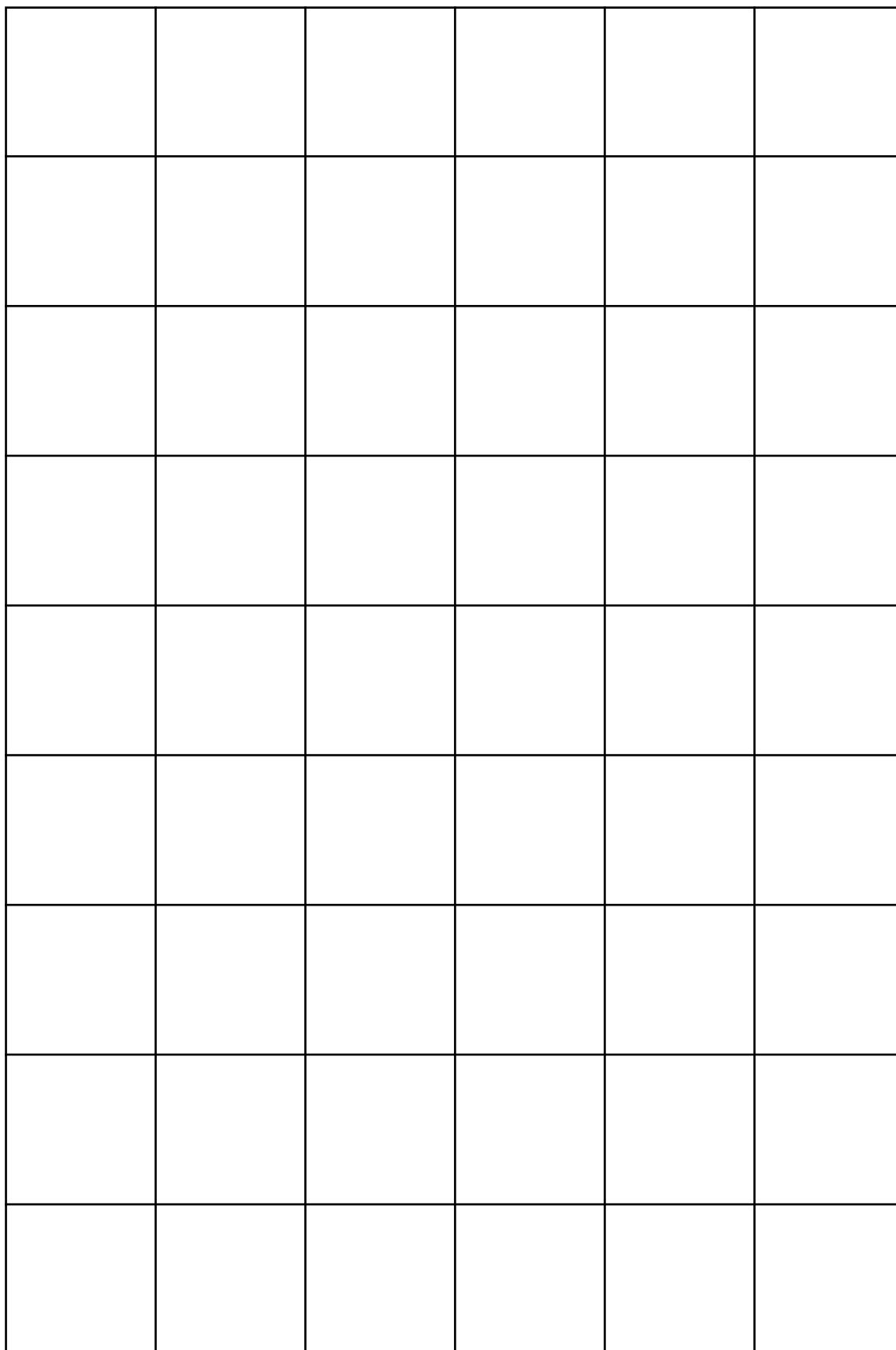
Která dvě stejná zvířátka mají přijít slabšímu družstvu na pomoc?

$$2 \text{ insects} + 1 \text{ bear} + 1 \text{ snake} = 2 \text{ fish} + 1 \text{ bird} + 1 \text{ insect} + 1 \text{ bear}$$

$$1 \text{ snake} + 2 \text{ fish} + 4 \text{ birds} + 2 \text{ bears} = 2 \text{ insects} + 1 \text{ bird} + 1 \text{ bear} + 1 \text{ fish}$$

$$4 \text{ bears} + 3 \text{ birds} + 1 \text{ insect} + 2 \text{ snakes} = 5 \text{ fish} + 1 \text{ snake} + 3 \text{ insects} + 2 \text{ birds}$$





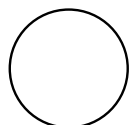
Dělení úloh podle obtížnosti



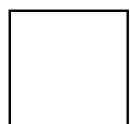
úloha pro předškolní děti



úloha pro žáky 1. třídy



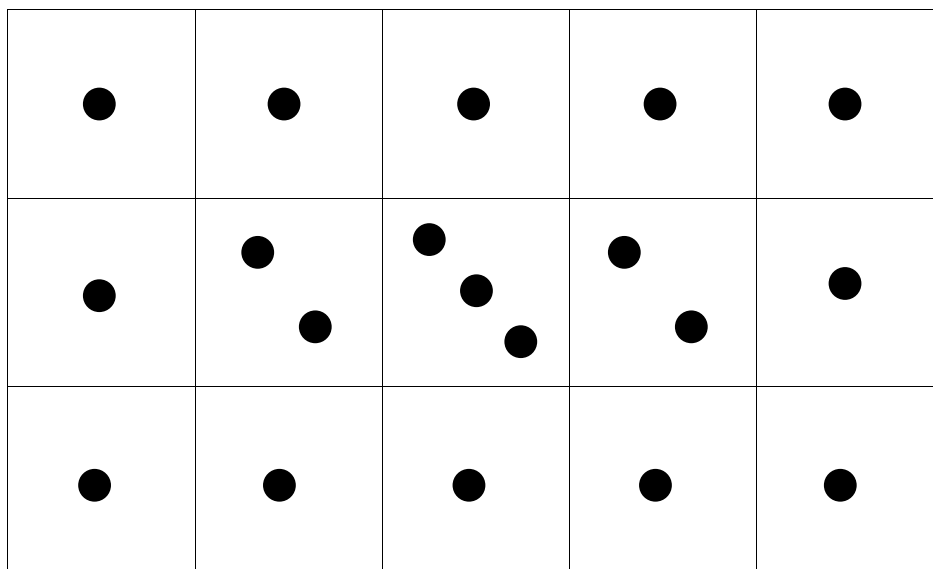
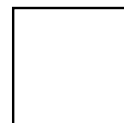
úloha pro žáky 2. třídy



úloha pro žáky 3. třídy

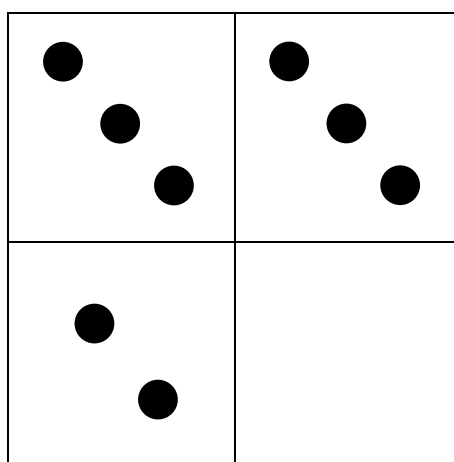
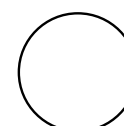
VLAKOVÉ NÁDRAŽÍ

nástupiště



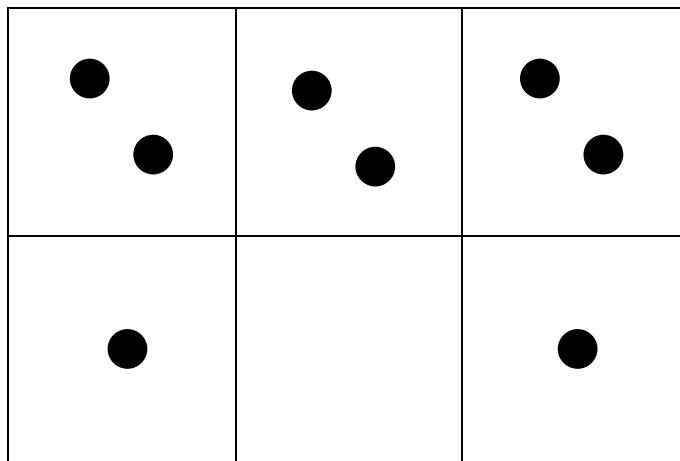
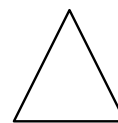
VLAKOVÉ NÁDRAŽÍ

stánek se zmrzlinou



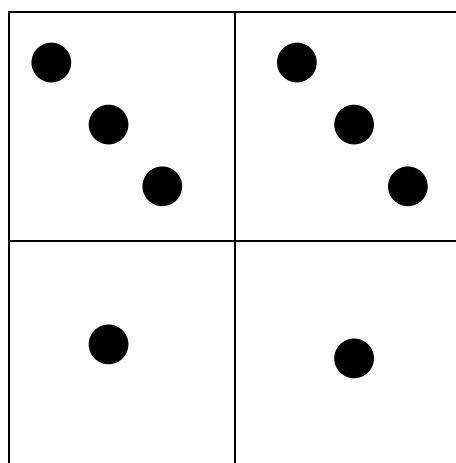
VLA KOVÉ NÁDRAŽÍ

prodej jízdenek



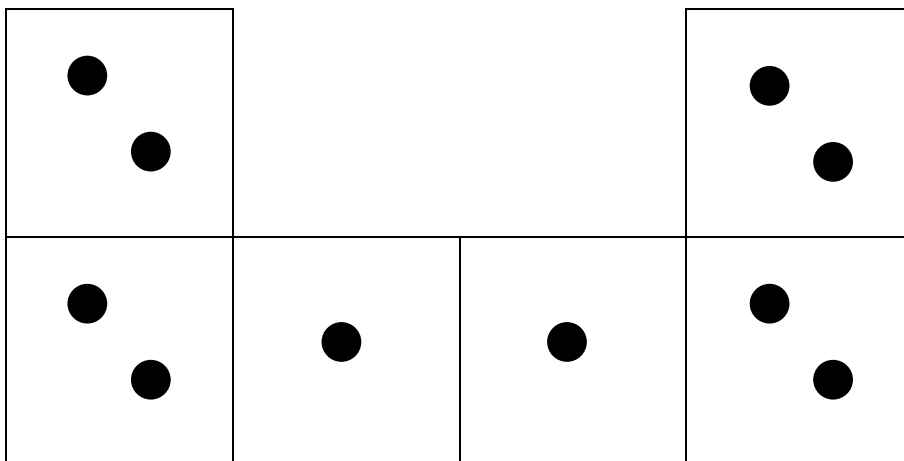
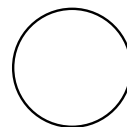
VLA KOVÉ NÁDRAŽÍ

čekárna



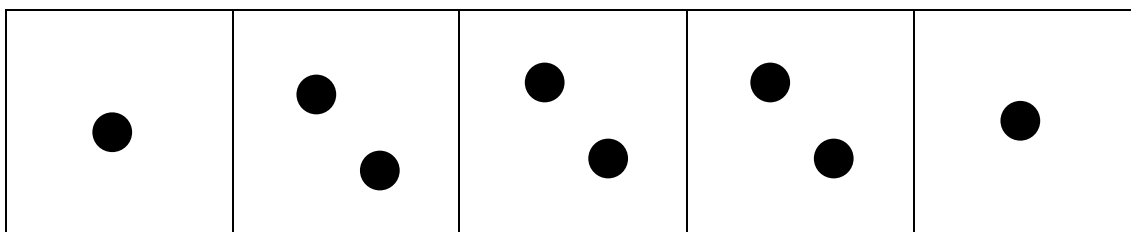
NEMOCNICE

dětské oddělení



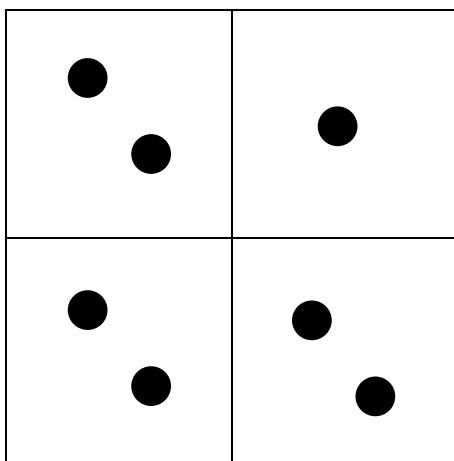
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garáže sanitky



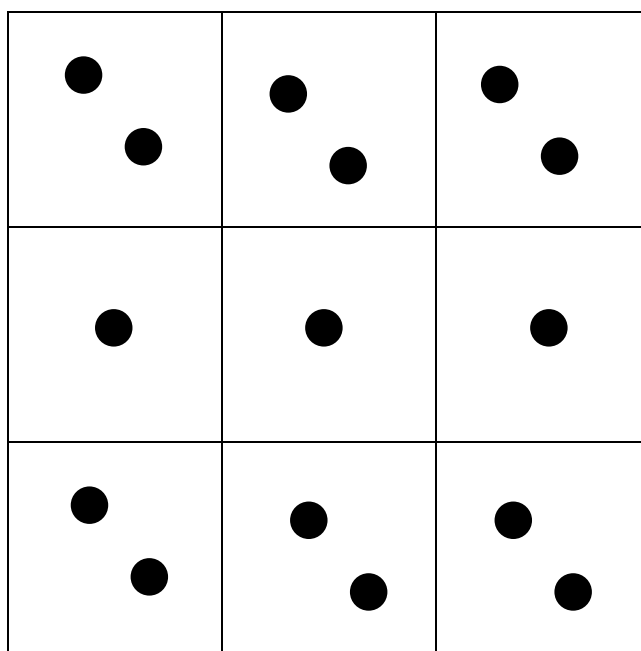
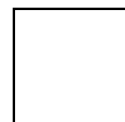
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čekárna



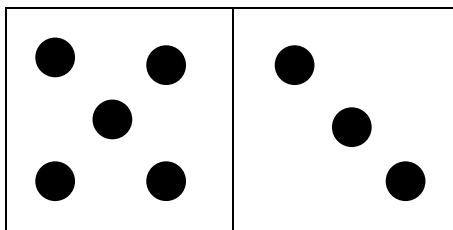
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chirurgie



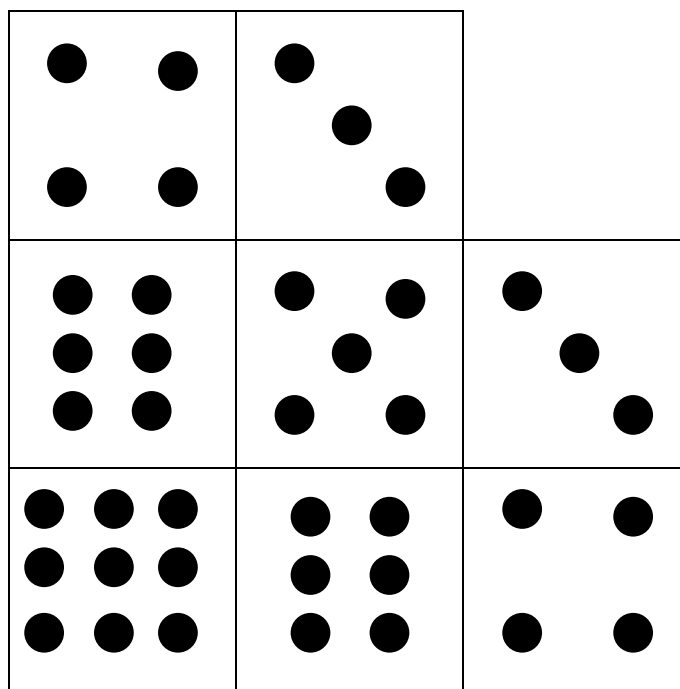
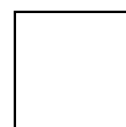
SÍDLIŠTĚ

panelák



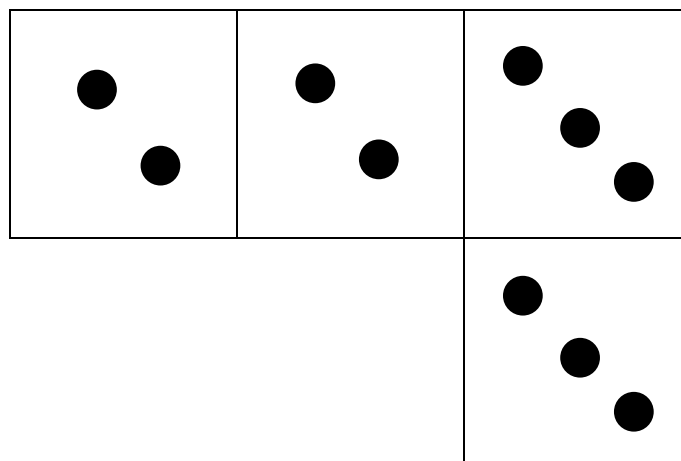
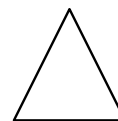
SÍDLIŠTĚ

mrakodrap



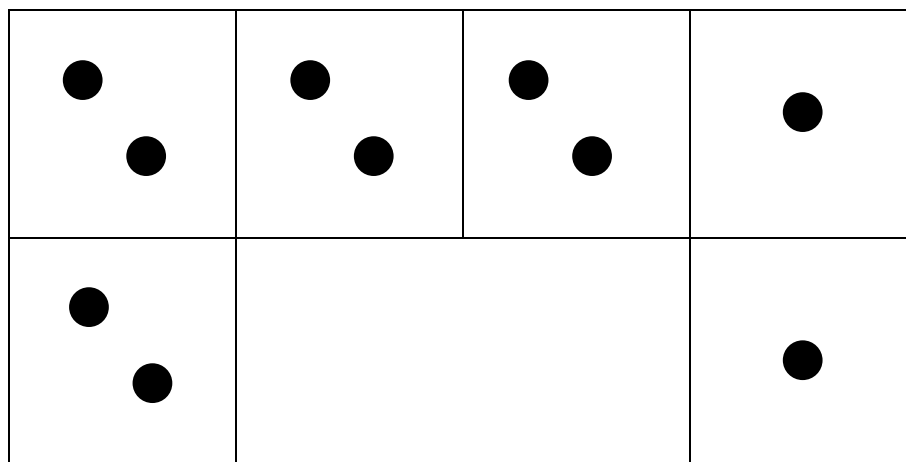
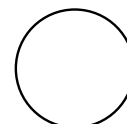
SÍDLIŠTĚ

panelák



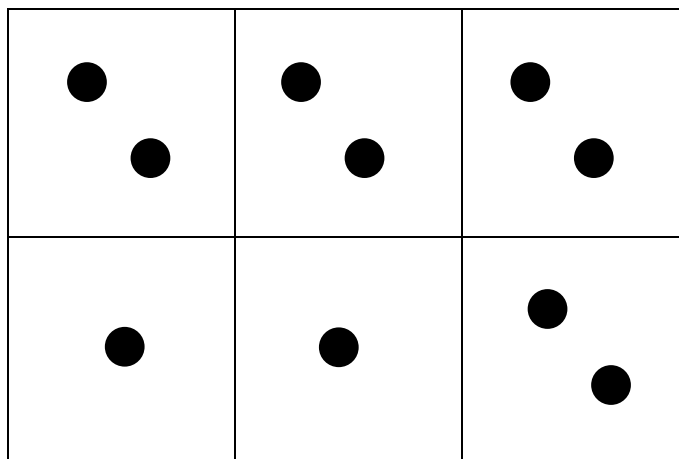
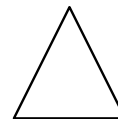
SÍDLIŠTĚ

ubytovna



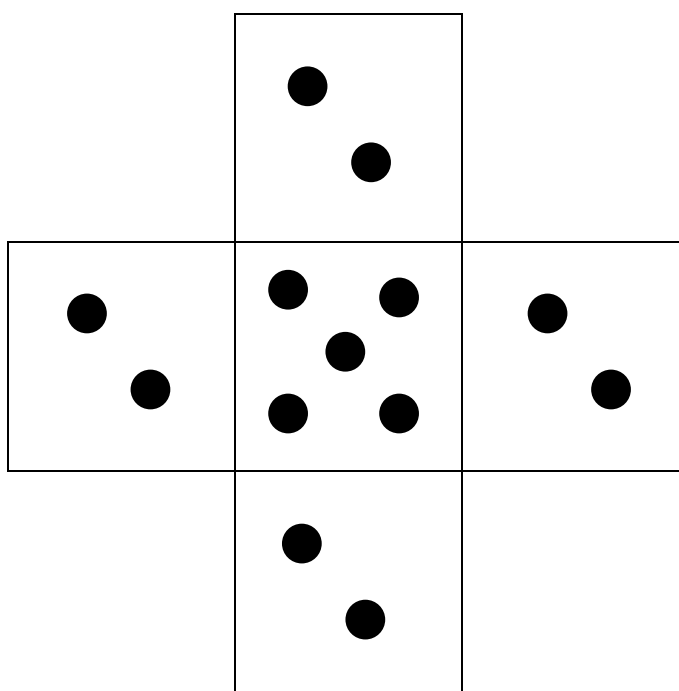
NÁMĚSTÍ

restaurace



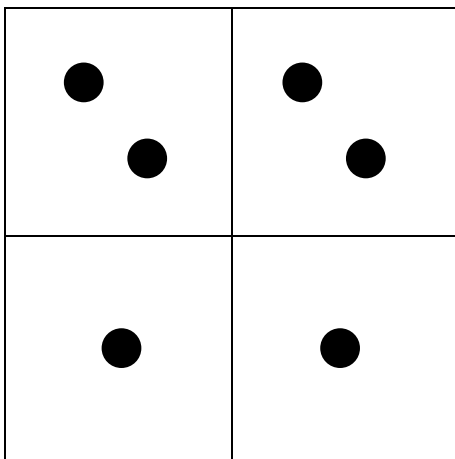
NÁMĚSTÍ

kašna



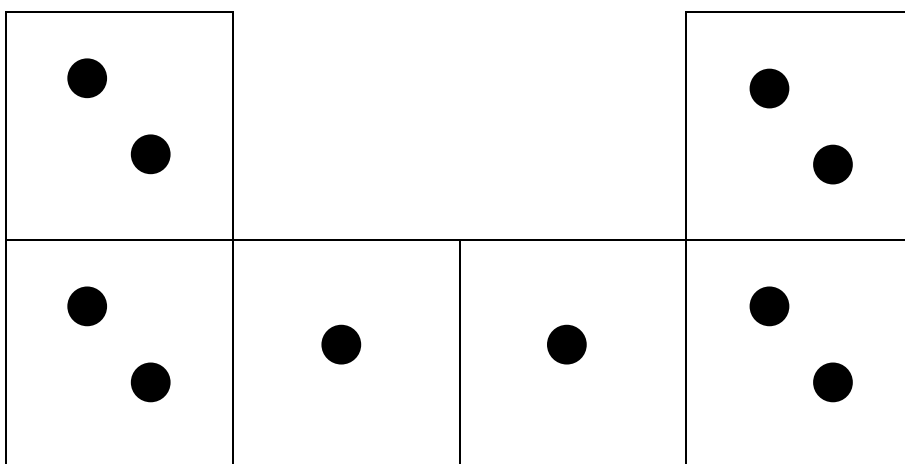
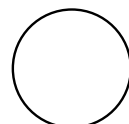
NÁMĚSTÍ

obchod



NÁMĚSTÍ

obchod



ŽLUTÉ:

1. Pojmenujte společně zastávky začínající na písmena A, B, C, D.

(Příklad: F = Foukalov)

Vyřeš úlohu, jezdi autobusem a zapisuj.

	A	B	C	D
vystoupili	-	2	4	
nastoupili	3	3	1	-
z A do B jelo				

Na zastávce začínající na písmeno D vystoupilo _____ cestujících.

Ze zastávky A na zastávku B jelo _____ cestujících.

2. Vyřeš úlohu, jezdi autobusem a zapisuj.

	A	B	C	D
vystoupili	-	5	2	
nastoupili	6	4	4	-
z B do C jelo				

Na zastávce D vystoupilo _____ cestujících.

Ze zastávky B na zastávku C jelo _____ cestujících.

Na zastávce C nastoupili _____ cestujících.



ŽLUTÉ:

3. Vyřeš úlohu, můžeš jezdit autobusem.

	A	B	C	D
vystoupili	-	2	4	
nastoupili	3	7	4	-
z C do D jelo				

Na zastávce D vystoupilo _____ cestujících.

Na zastávce B nastoupili _____ cestujících.

Ze zastávky C na zastávku D jelo _____ cestujících.

4. Vyřeš úlohu, můžeš jezdit autobusem.

	A	B	C	D
vystoupili	-	2	4	
nastoupili	3	3	3	-
jeli				

Na zastávce D vystoupilo _____ cestujících.

Nejvíce cestujících jelo ze zastávky _____ do zastávky _____ .

MODRÉ:

1. Vyřeš úlohu, můžeš jezdit autobusem.

	A	B	C	D
vystoupili	-	2	3	
nastoupili	4	6	8	-
z B do C jelo				

Ze zastávky B na zastávku C jelo _____ cestujících.

Na zastávce D vystoupilo _____ cestujících.

Nejvíce cestujících nastoupilo na zastávce _____ .

2. Vyřeš úlohu, můžeš jezdit autobusem.

	A	B	C	D
vystoupili	-	5	2	
nastoupili	6	4	4	-
jeli			5	

Na zastávce D vystoupilo _____ cestujících.

Nejvíce cestujících jelo ze zastávky _____ do zastávky _____ .

MODRÉ:

3. Vyřeš úlohu, můžeš jezdit autobusem. Rozhodni, zda jsou tvrzení pravdivá (P), nebo nepravdivá (N).

	A	B	C	D	E
vystoupili	-	1	2	3	3
nastoupili					-
jeli		2	4	6	

Na zastávce B nastoupilo stejně cestujících jako na zastávce C. P/N

Na zastávce A vystoupili 2 cestující. P/N

Autobusem se vezlo celkem cestujících. P/N

4. Vyřeš úlohu, můžeš jezdit autobusem. Rozhodni, zda jsou tvrzení pravdivá (P), nebo nepravdivá (N).

	A	B	C	D	E
vystoupili	-	5	1	3	11
nastoupili					-
jeli		7		10	

Na zastávce C vystoupilo nejvíce cestujících. P/N

Na zastávce E nastoupili celkem 3 cestující. P/N

Autobusem se vezlo celkem více než 15 lidí. P/N

ČERVENÉ:

■ značí muže

▲ značí ženu

3. Doplň tabulku a vyřeš úlohy

	A	B	C	D	E
vystoupili	-	■	▲▲	▲	▲▲■ ■■
nastoupili		▲▲	▲■		-
jeli		■ ■			

Na zastávce E vystoupili _____ muži a _____ ženy .

Kolik zastávek jely ženy, které nastoupily na zastávce B? _____

Autobusem se vezlo celkem _____ cestujících.

4. Doplň tabulku a vyřeš úlohy

	A	B	C	D	E
vystoupili	-	■	▲▲	▲	■▲▲
nastoupili	■ ■	▲▲	▲		-
jeli		■ ■			

Kolik zastávek jely ženy, které nastoupily na zastávce B? _____

Kolik mužů se celkem svezlo autobusem? _____



Usain Bolt

BĚŽEC–SPRINTER

Nejrychlejší muž světa. Z jaké země?

	1	2	3	4	5
A	A	K	Z	R	J
B	V	O	J	A	E
C	C	M	D	U	A

Doplň tabulku:

B3	C5	C2	A1	A5	A2	B4
		M				A



Dominik Lakatoš

HOKEJISTA – 1. ROMSKÝ HRÁČ V NHL

↑

	S	
	O	K

↑



Doplň do tabulky: HOKEJISTA

Jaromír Jágr

HOKEJISTA

→

J			
O		Á	
		R	x

→



Doplň do tabulky jméno: JAROMÍRxJÁGR

Cristiano Ronaldo



Neymar



Lionel Messi



Luis Suárez



SVĚTOVÍ FOTBALISTÉ

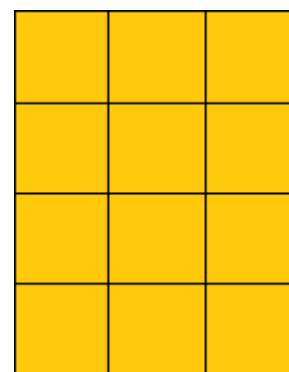
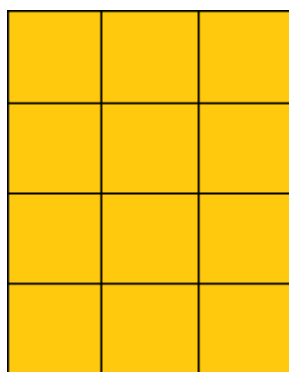
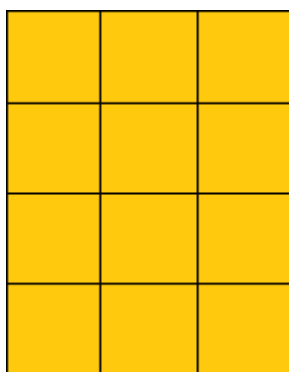
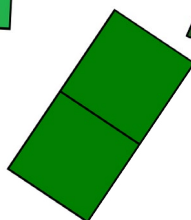
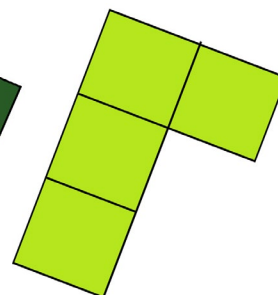
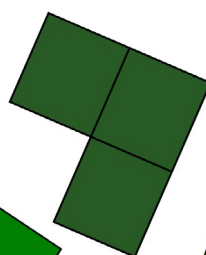
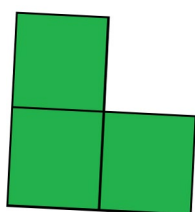
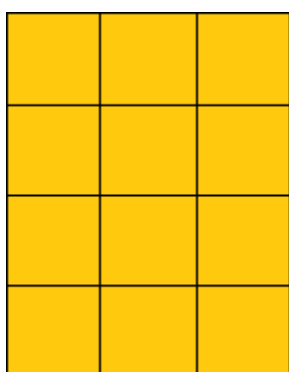
Všichni si navzájem jednou tlesknou. Každý si tleskne jednou svojí rukou s jednou rukou každého.

Kolik tlesknutí se ozve? Zahrajte si to.

Petra Kvitová

TENISTKA

Pokryj tenisový kurt částmi trávniku. Hledej více řešení.



Lukáš Krpálek

JUDISTA (čti džudysta)

Kolika způsoby můžeme v tabulce přečíst slovo JUDO?



J	U
U	D
D	O

J	U
U	D
D	O

J	U
U	D
D	O

J	U
U	D
D	O

J	U
U	D
D	O

J	U
U	D
D	O

Zuzana Hejnová

PŘEKÁŽKÁŘKA

Výška překážky je 76 cm. Mezi stromy v této výšce natáhněte provázek jako překážku.

Celé vaše družstvo musí společnými silami překážku překonat. Navzájem si pomozte.



Emil Zátopek

BĚŽEC. Velmi úspěšný bývalý český sportovec. Běhal maraton.

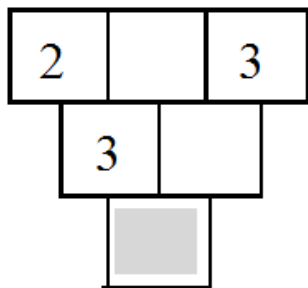


Kolik kilometrů měří maraton? Je to **třetí nejmenší** číslo z nabídky.

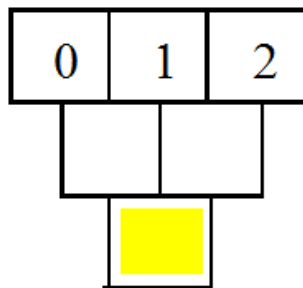
16 68 72 31 85 58 42 48

Věra Čáslavské

GYMNASTKA. Velmi úspěšná bývalá česká sportovkyně.



počet stříbrných
olympijských medailí



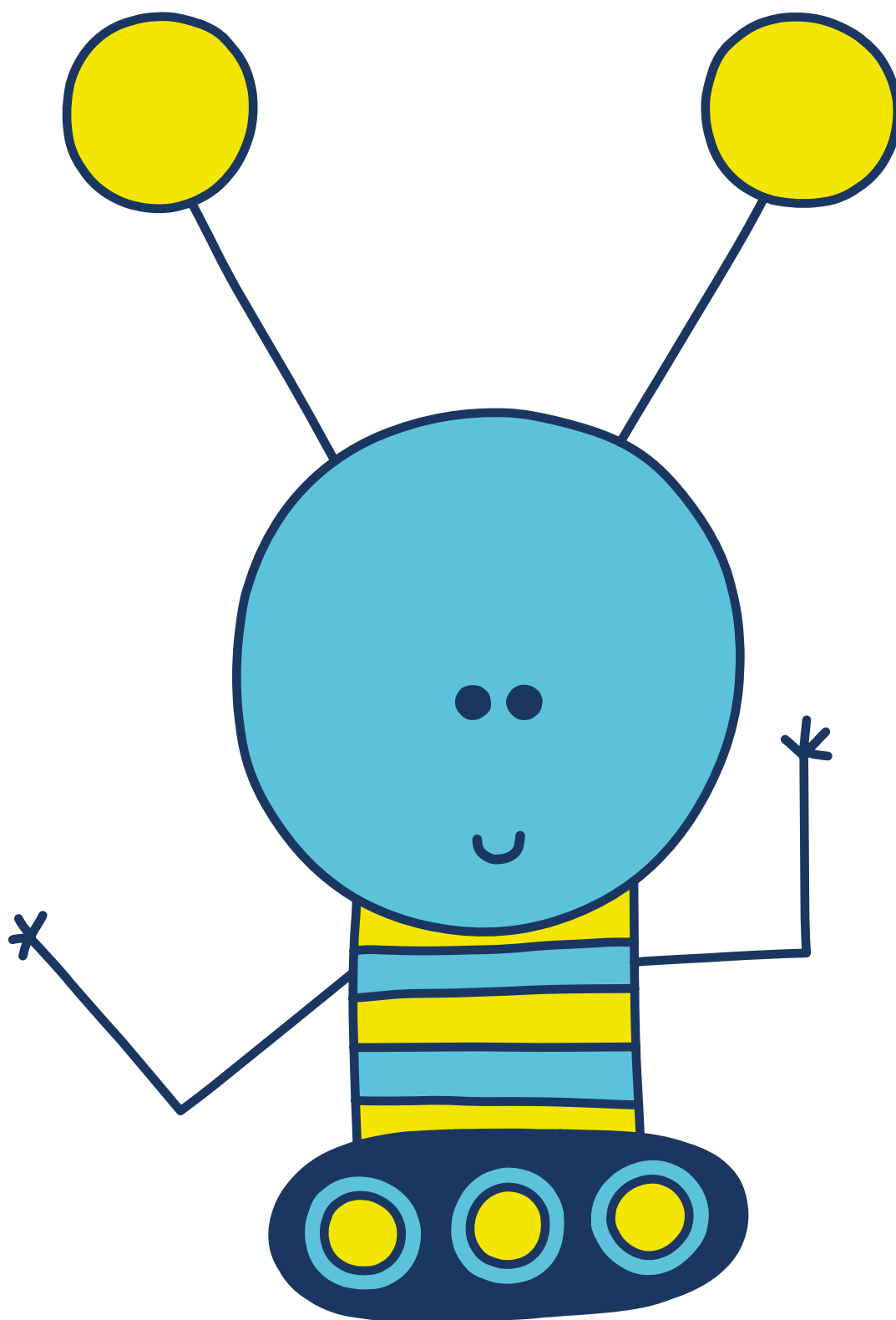
počet zlatých
olympijských medailí

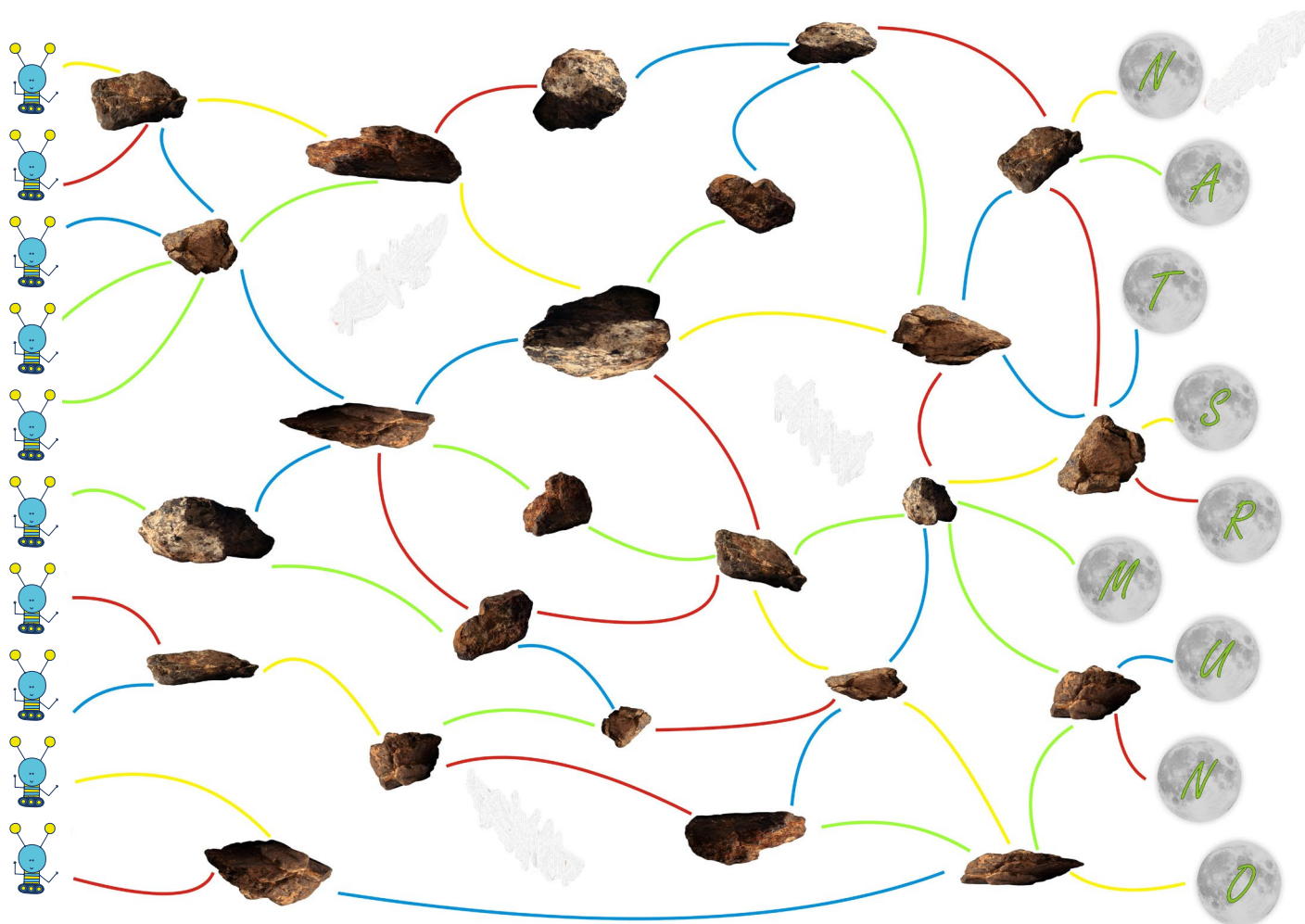
Barbora Špotáková

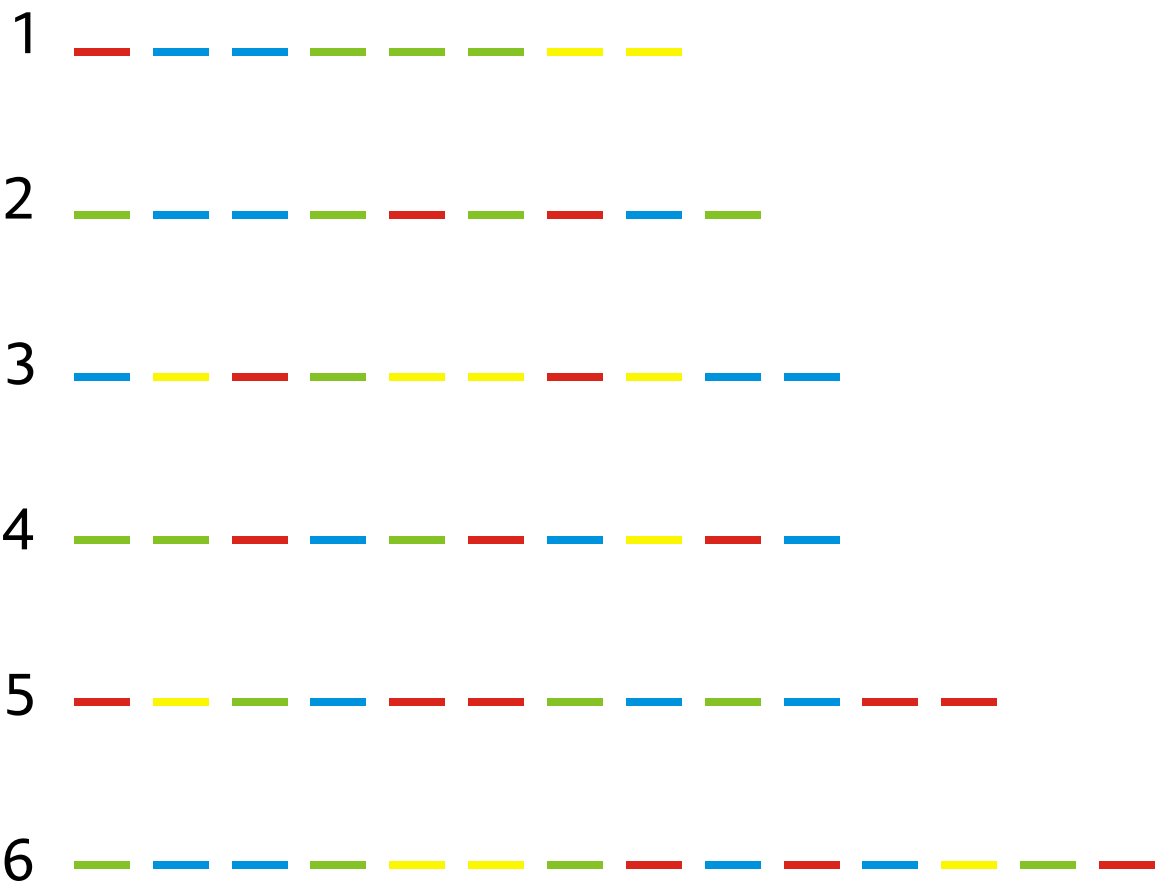
OŠTĚPAŘKA. Držitelka světového rekordu.

Oštěp pro ženy je dlouhý 220cm. Odhadni tuto vzdálenost a nakresli oštěp křídou na zem. Zkontroluj pomocí metru.

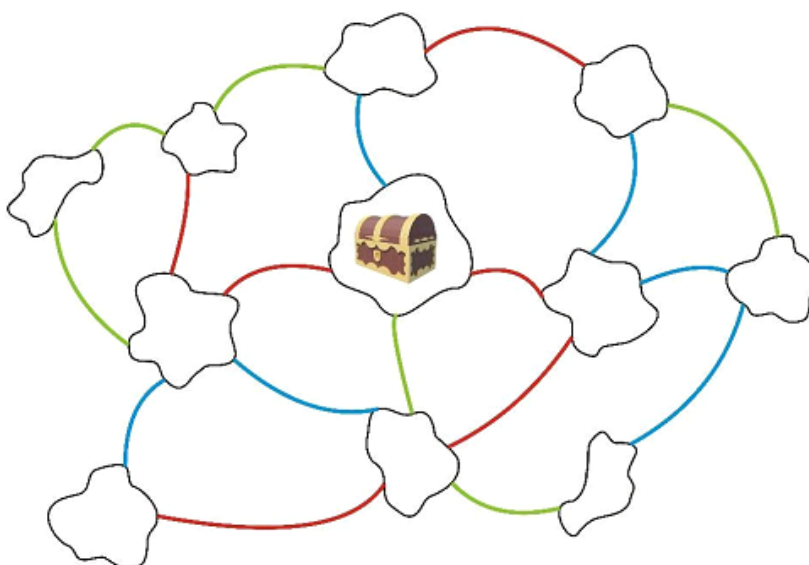




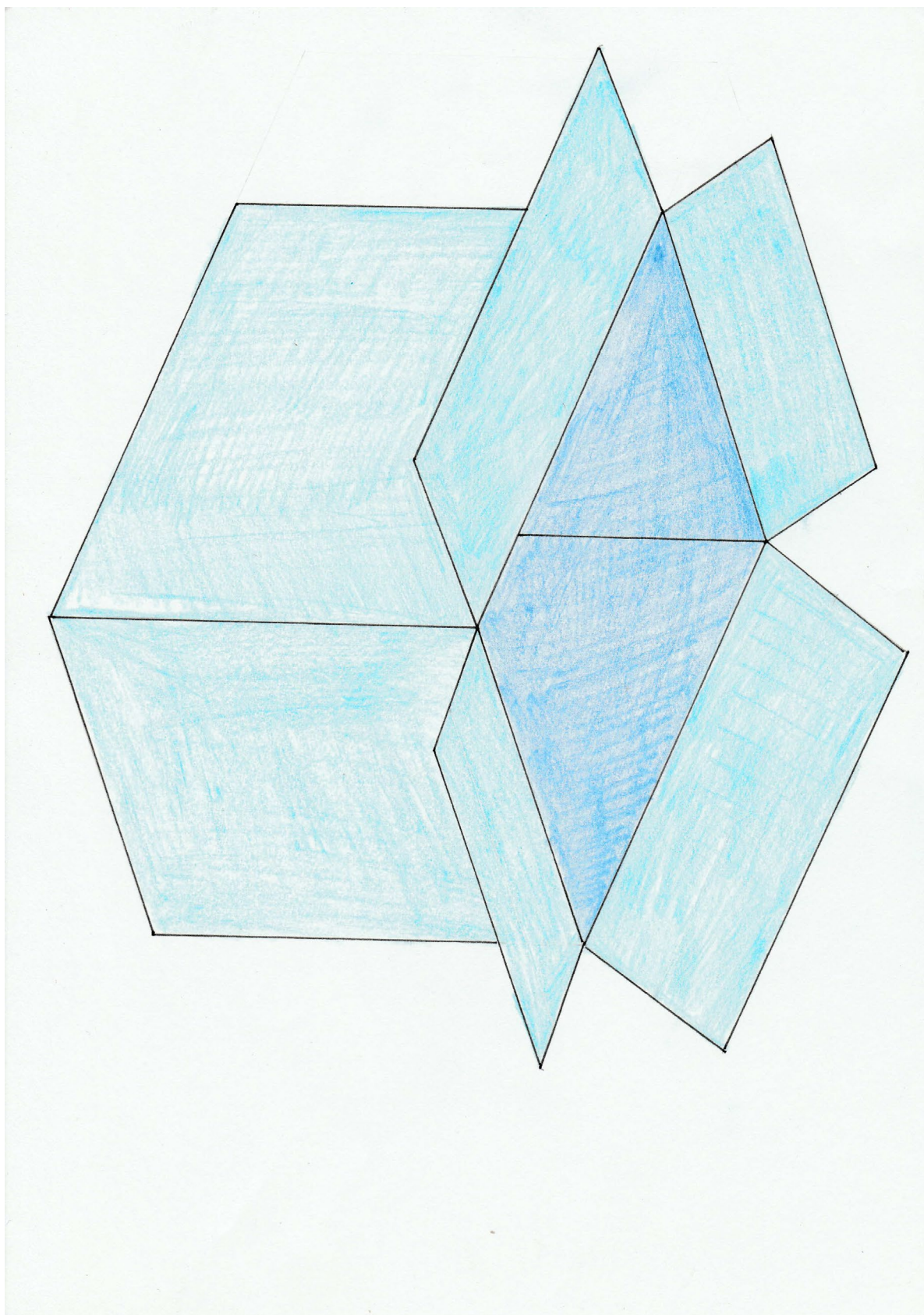


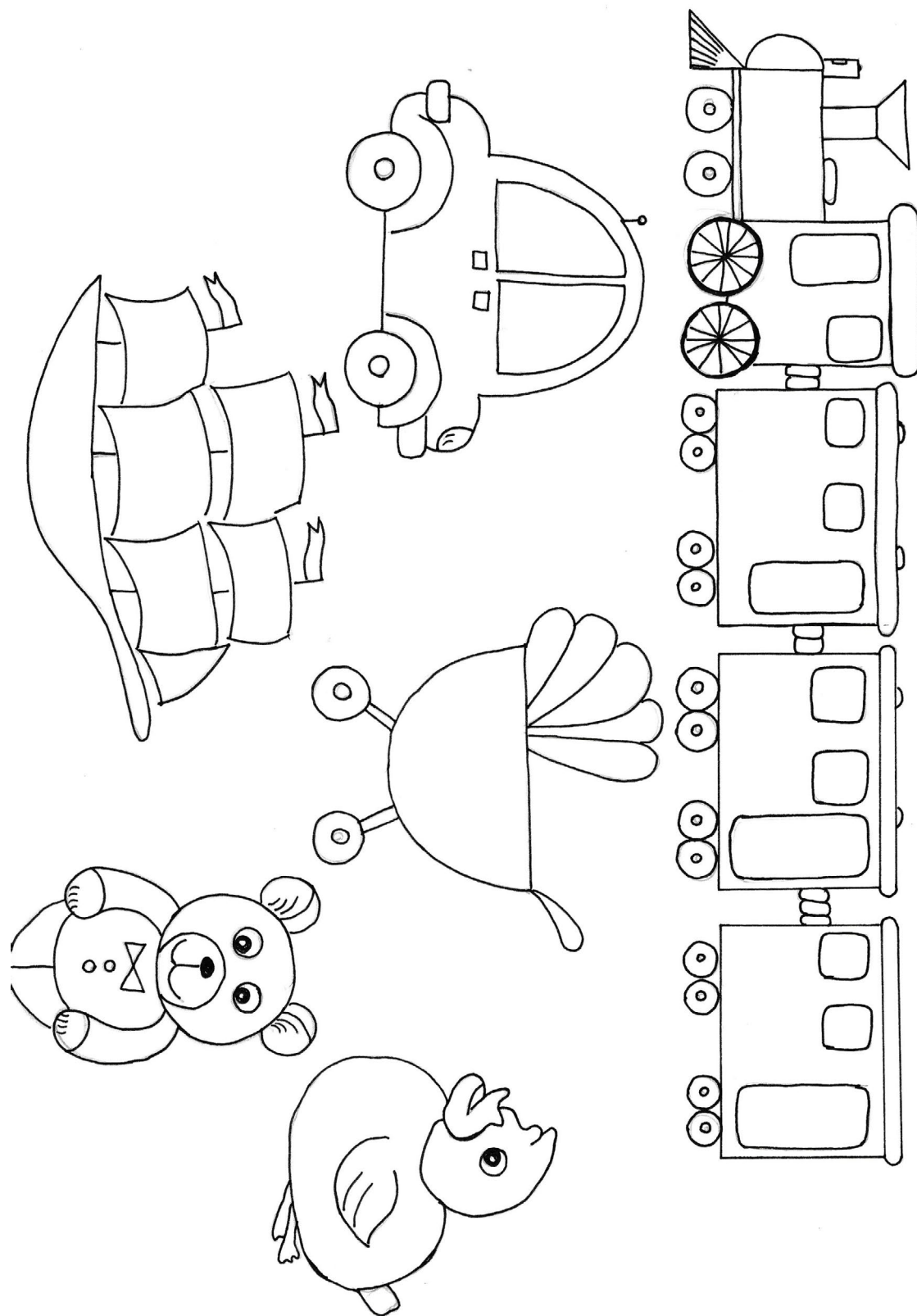


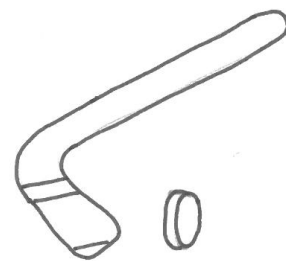
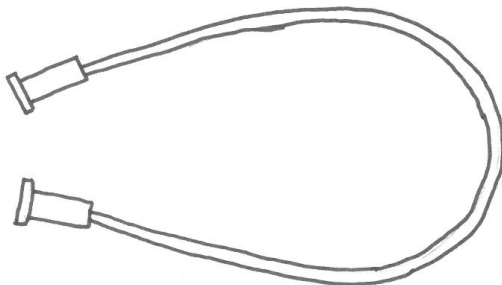
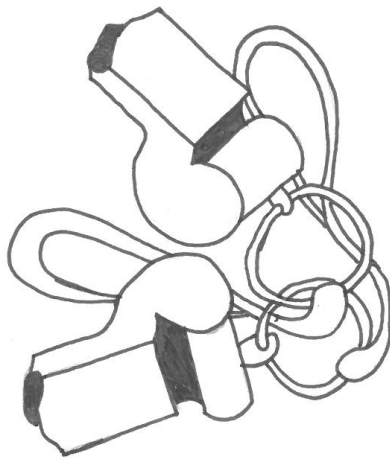
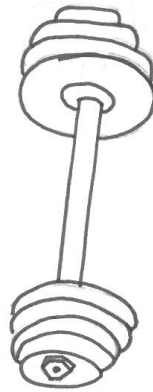
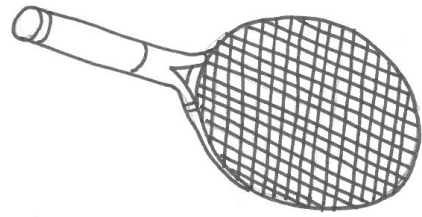
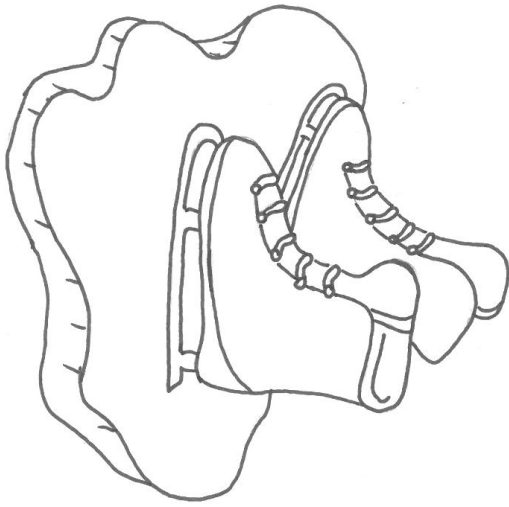
Najdi cestu k pokladu. Na ostrov s pokladem se dostaneš po barevných mostech, jdi po zadané cestě. Nesmíš jít dvakrát po stejném mostě, ale na každý ostrůvek můžeš vstoupit opakovaně. Během cesty na ostrov s pokladem nesmíš přes ostrov s pokladem přejít, je to pouze ostrov cílový. Vždy začínáš svou cestu z nějakého krajního ostrova

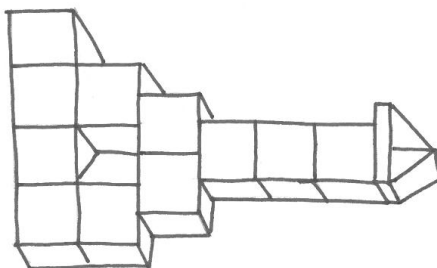
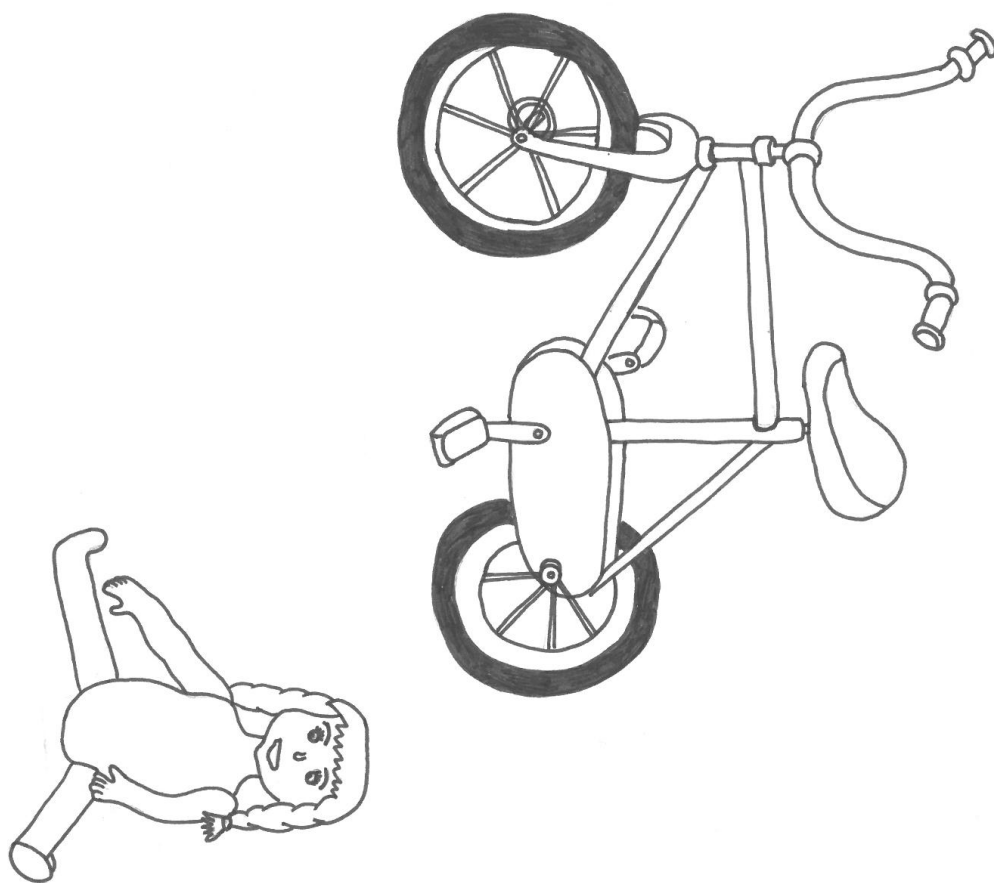


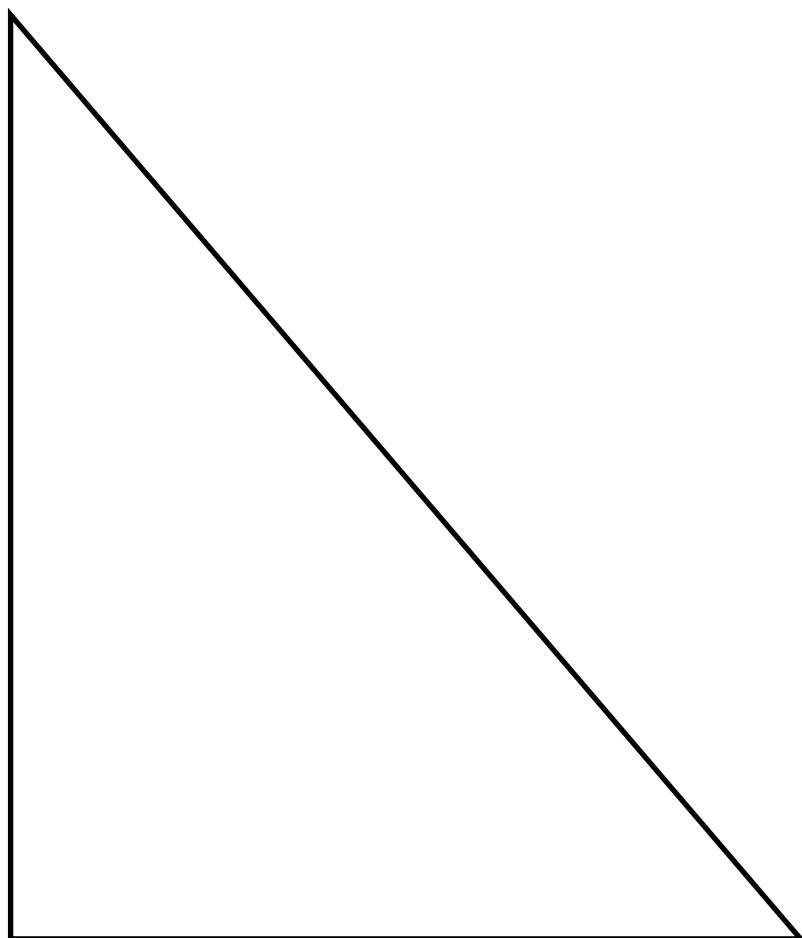
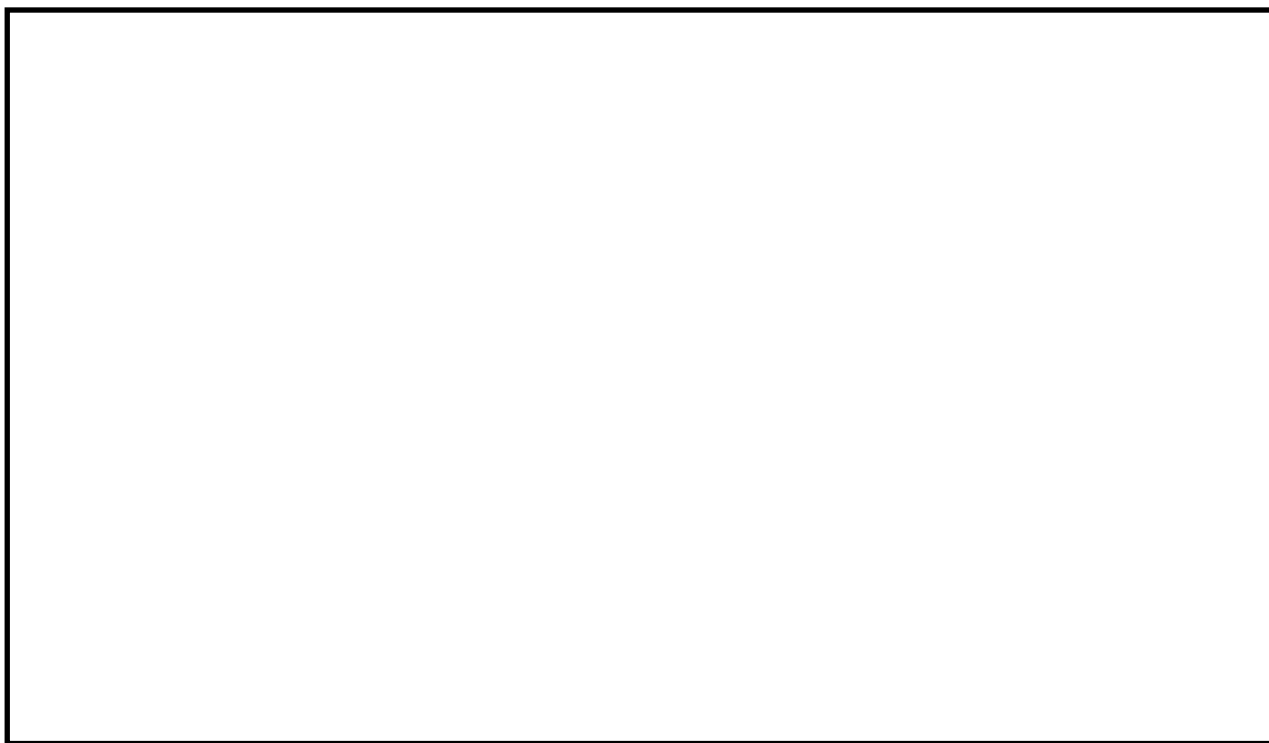
- 1 — — — — —
- 2 — — — — —
- 3 — — — — —
- 4 — — — — —
- 5 — — — — —
- 6 — — — — —

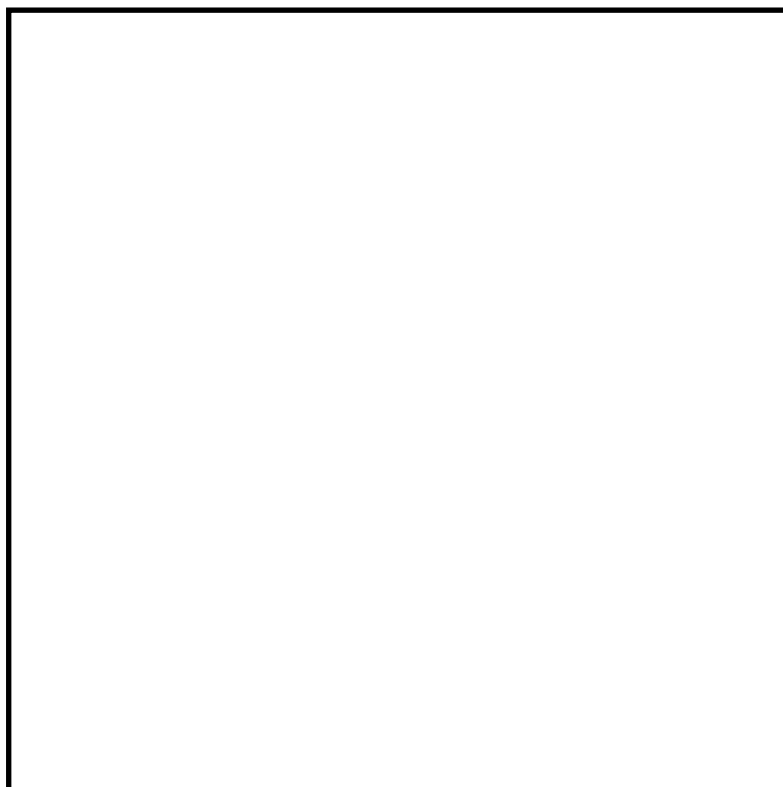
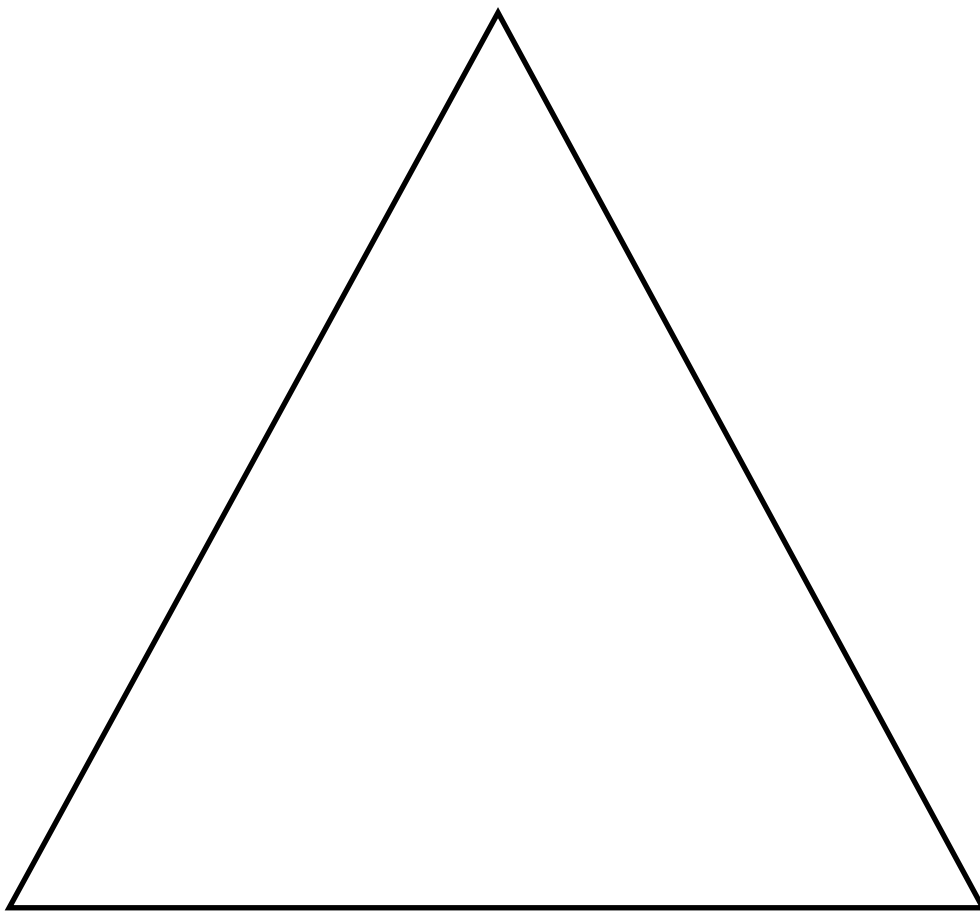


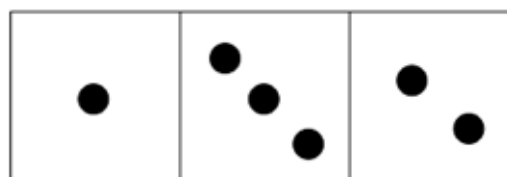
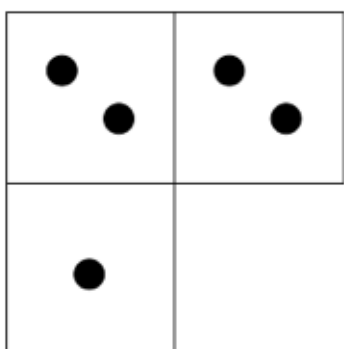
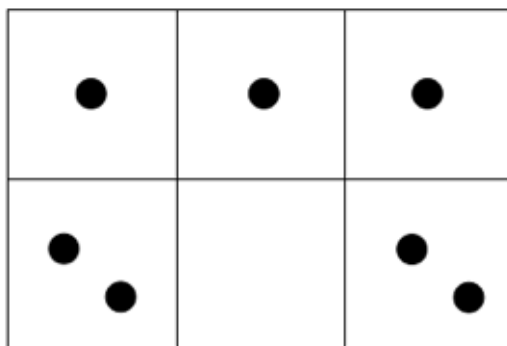
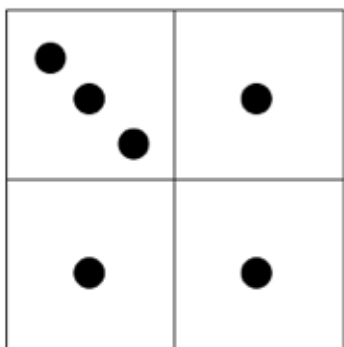


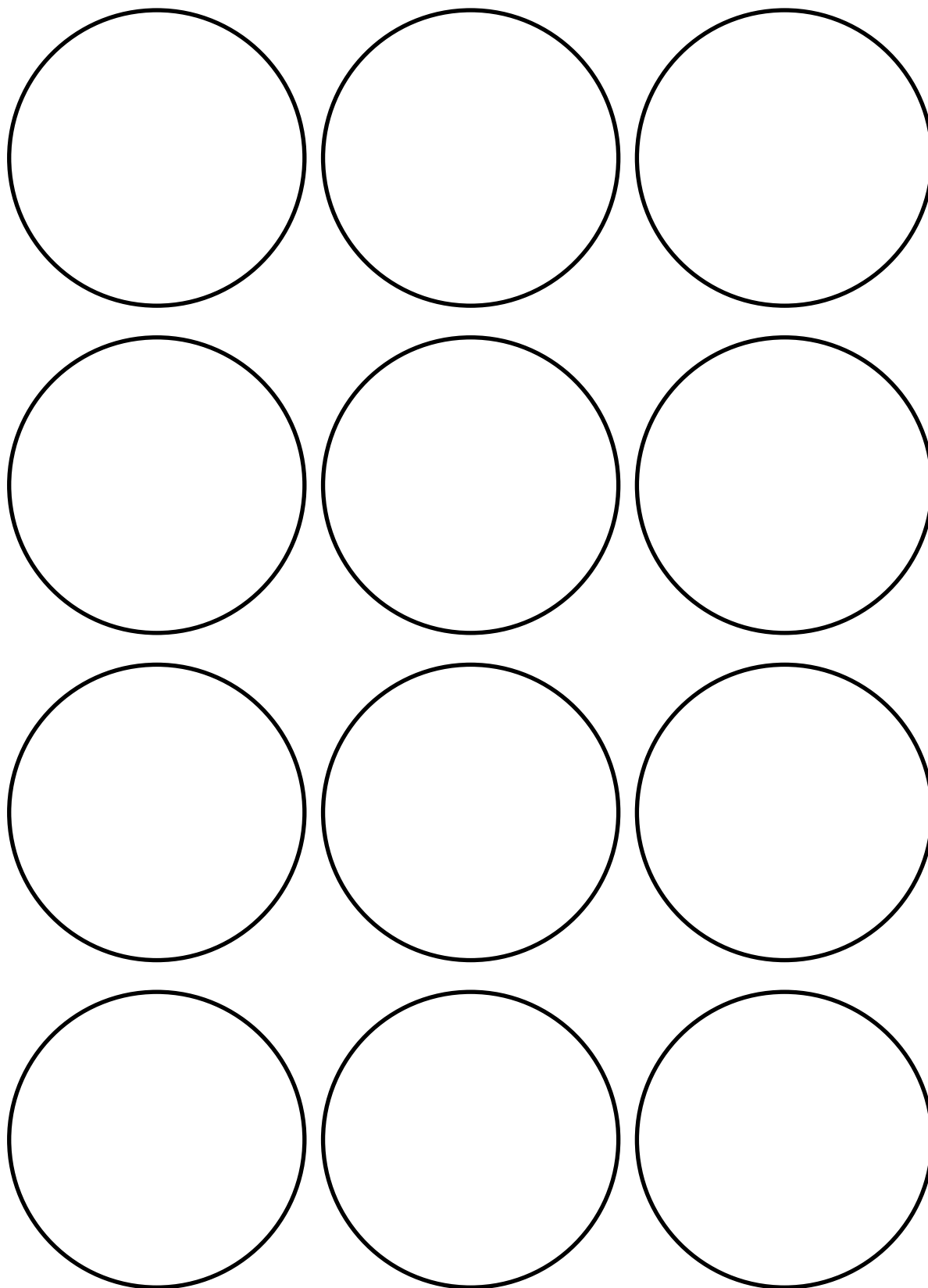


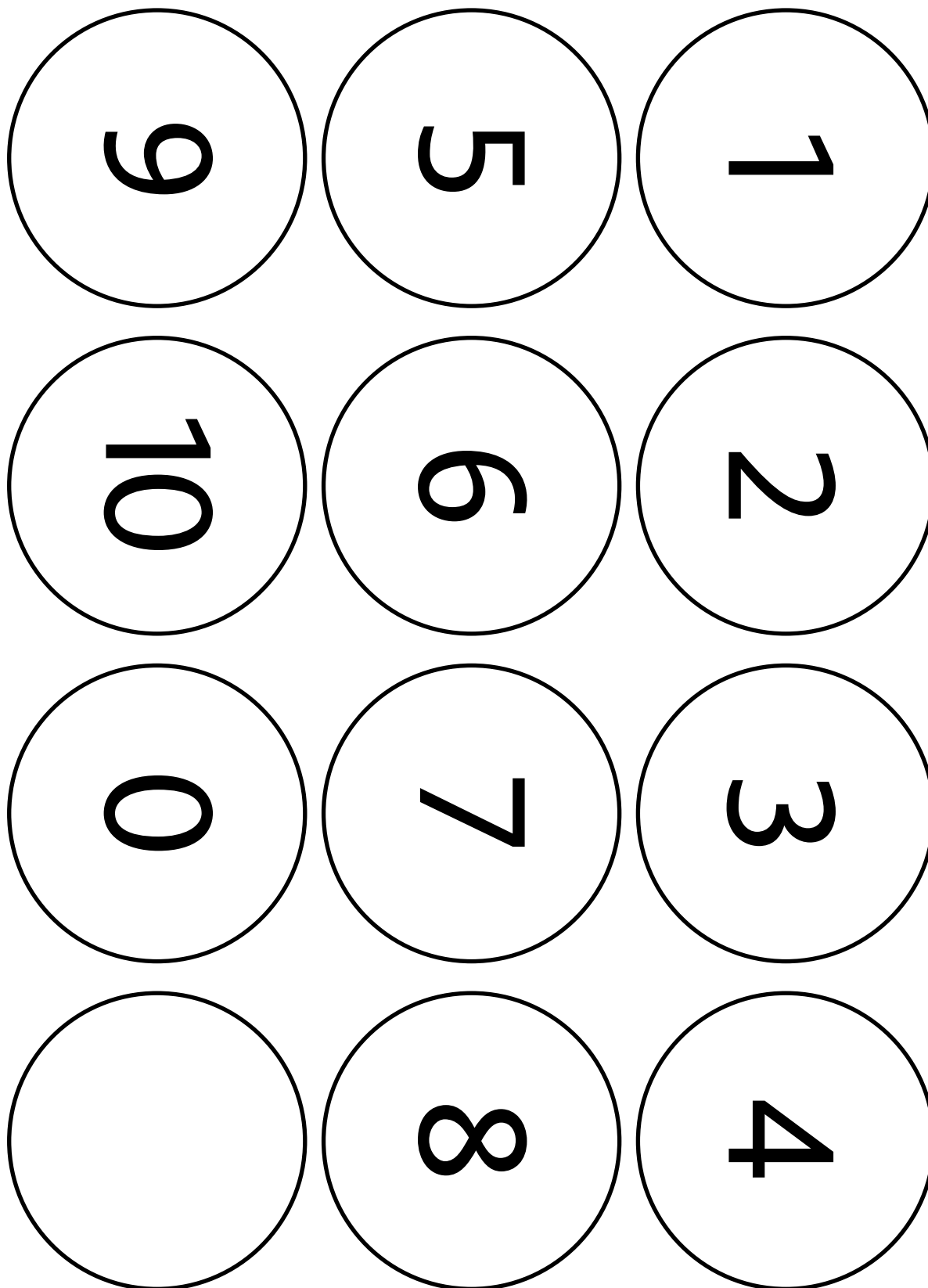


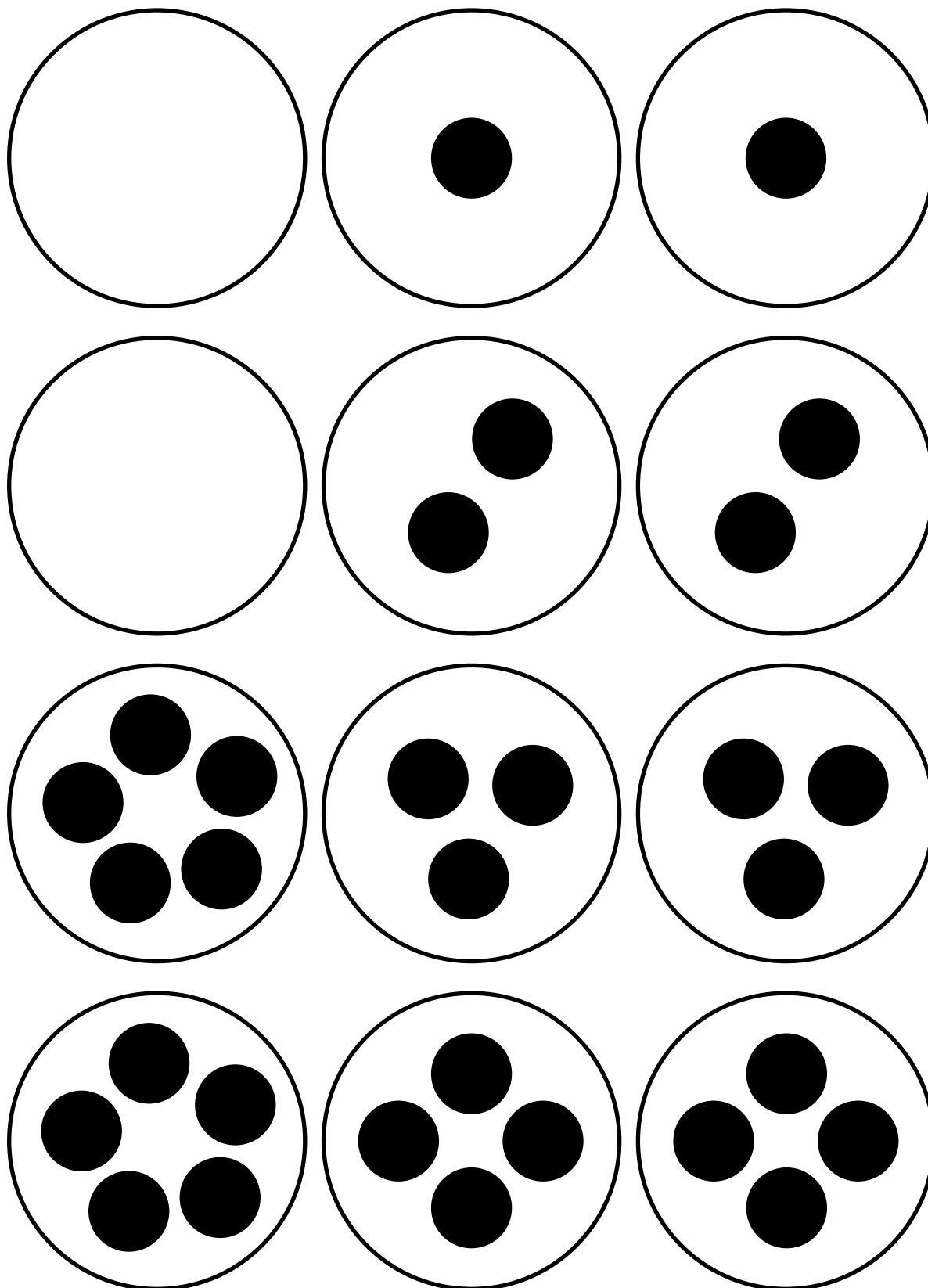




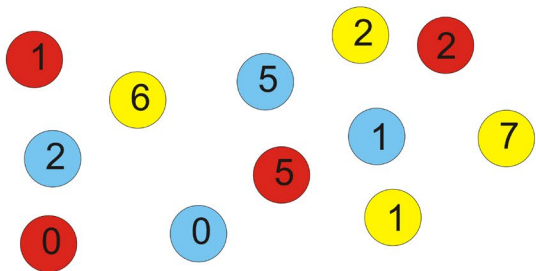






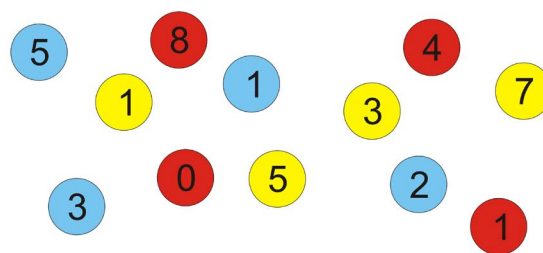


Spoj 3 čísla a vytvoř 8.



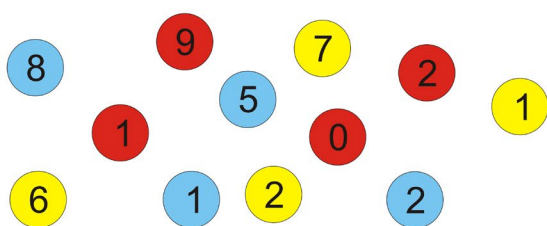
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 8 \quad \blacksquare + \blacksquare + \blacksquare = 8 \\ \blacksquare + \blacksquare + \blacksquare = 8 \quad \blacksquare + \blacksquare + \blacksquare = 8 \end{array}$$

Spoj 3 čísla a vytvoř 10.



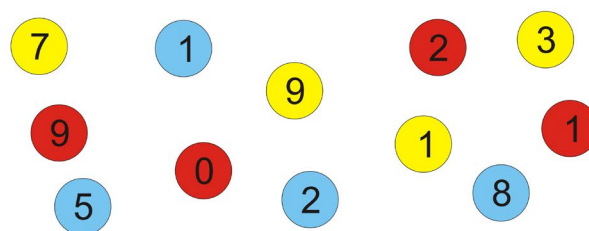
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 10 \quad \blacksquare + \blacksquare + \blacksquare = 10 \\ \blacksquare + \blacksquare + \blacksquare = 10 \quad \blacksquare + \blacksquare + \blacksquare = 10 \end{array}$$

Spoj 3 čísla a vytvoř 11.



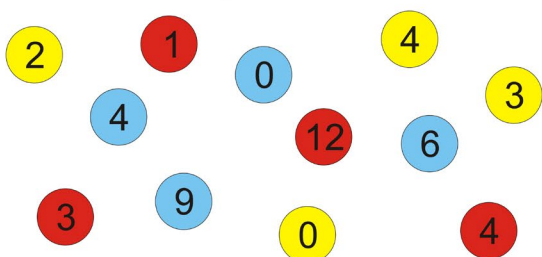
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 11 \quad \blacksquare + \blacksquare + \blacksquare = 11 \\ \blacksquare + \blacksquare + \blacksquare = 11 \quad \blacksquare + \blacksquare + \blacksquare = 11 \end{array}$$

Spoj 3 čísla a vytvoř 12.



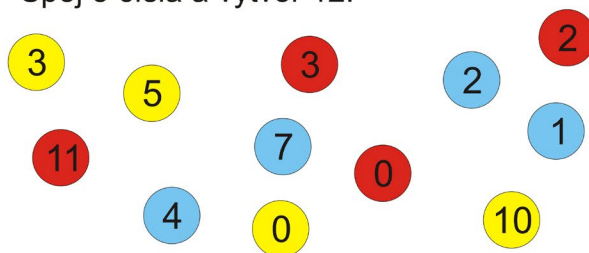
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 12 \quad \blacksquare + \blacksquare + \blacksquare = 12 \\ \blacksquare + \blacksquare + \blacksquare = 12 \quad \blacksquare + \blacksquare + \blacksquare = 12 \end{array}$$

Spoj 3 čísla a vytvoř 12.



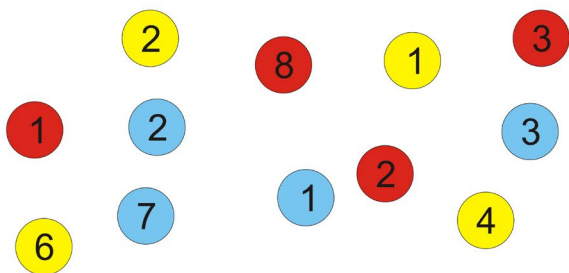
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 12 \quad \blacksquare + \blacksquare + \blacksquare = 12 \\ \blacksquare + \blacksquare + \blacksquare = 12 \quad \blacksquare + \blacksquare + \blacksquare = 12 \end{array}$$

Spoj 3 čísla a vytvoř 12.



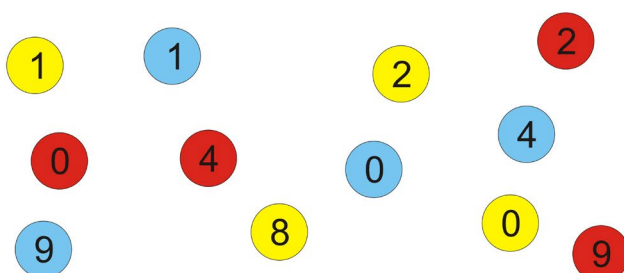
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 12 \quad \blacksquare + \blacksquare + \blacksquare = 12 \\ \blacksquare + \blacksquare + \blacksquare = 12 \quad \blacksquare + \blacksquare + \blacksquare = 12 \end{array}$$

Spoj 3 čísla a vytvoř 10.



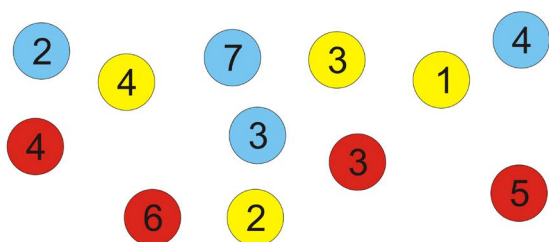
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 10 \\ \blacksquare + \blacksquare + \blacksquare = 10 \end{array}$$

Spoj 3 čísla a vytvoř 10.



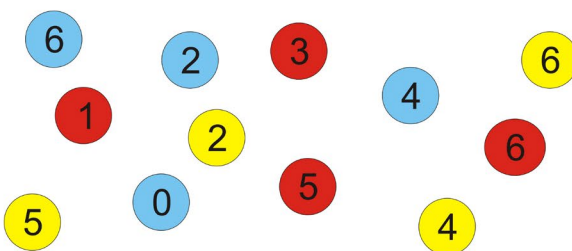
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 10 \\ \blacksquare + \blacksquare + \blacksquare = 10 \end{array}$$

Spoj 3 čísla a vytvoř 11.



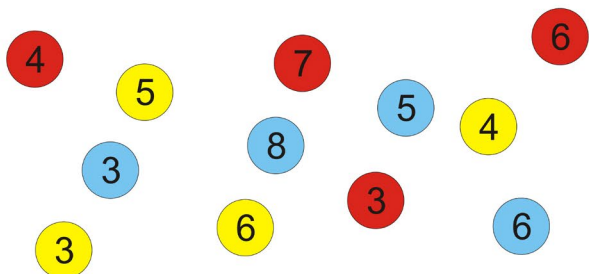
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 11 \\ \blacksquare + \blacksquare + \blacksquare = 11 \end{array}$$

Spoj 3 čísla a vytvoř 11.



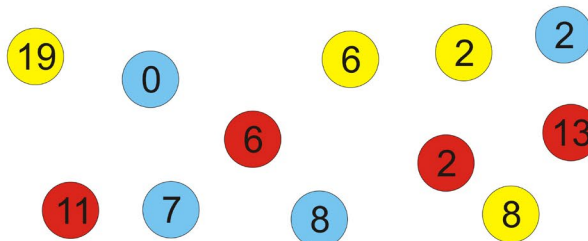
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 11 \\ \blacksquare + \blacksquare + \blacksquare = 11 \end{array}$$

Spoj 3 čísla a vytvoř 15.



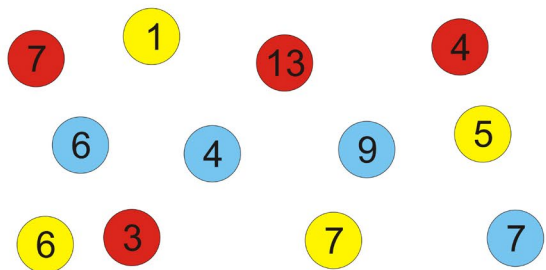
$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 15 \\ \blacksquare + \blacksquare + \blacksquare = 15 \end{array}$$

Spoj 3 čísla a vytvoř 21.

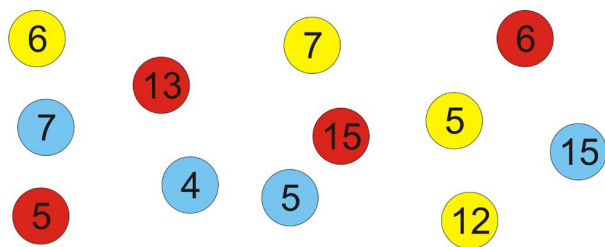


$$\begin{array}{l} \blacksquare + \blacksquare + \blacksquare = 21 \\ \blacksquare + \blacksquare + \blacksquare = 21 \end{array}$$

Spoj 3 čísla a vytvoř 18.

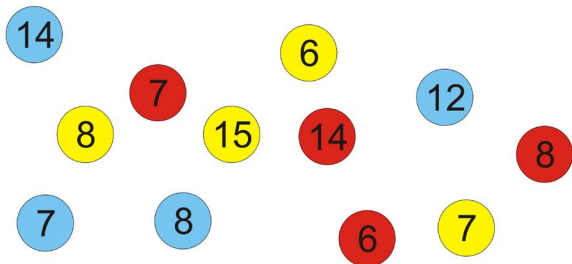


Spoj 3 čísla a vytvoř 25.

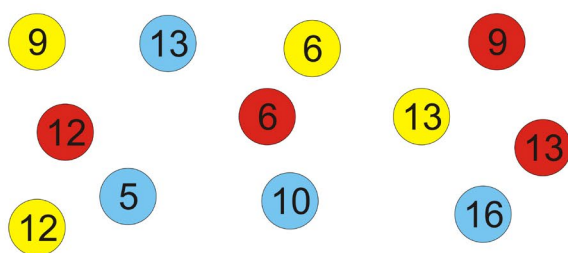


+ + = 18	+ + = 18	+ + = 25	+ + = 25
+ + = 18	+ + = 18	+ + = 25	+ + = 25

Spoj 3 čísla a vytvoř 28.

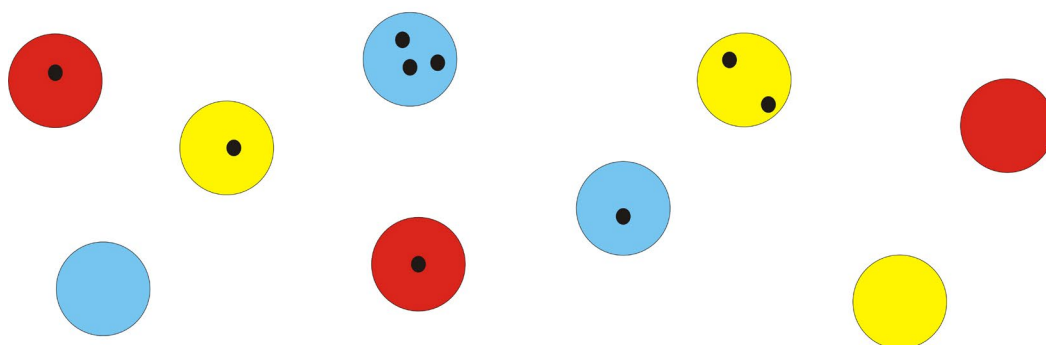


Spoj 3 čísla a vytvoř 31.

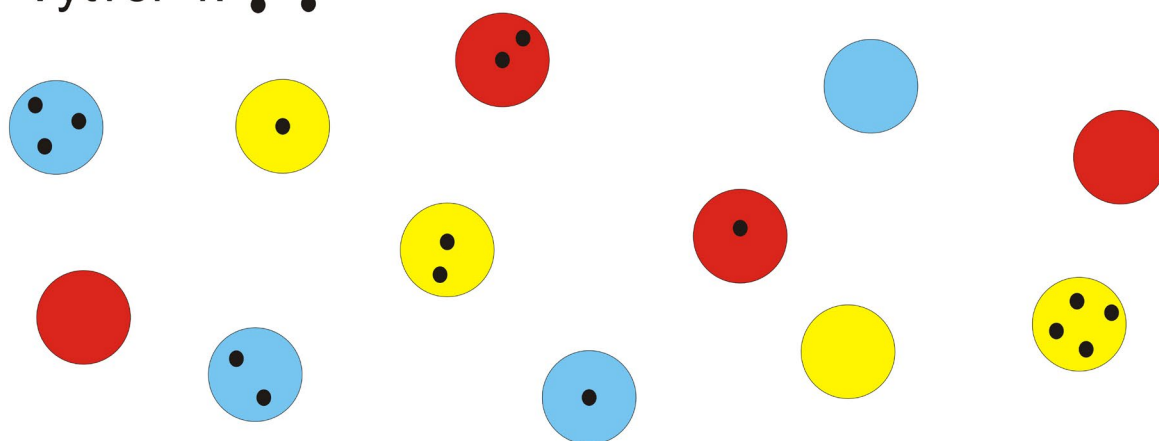


+ + = 28	+ + = 28	+ + = 31	+ + = 31
+ + = 28	+ + = 28	+ + = 31	+ + = 31

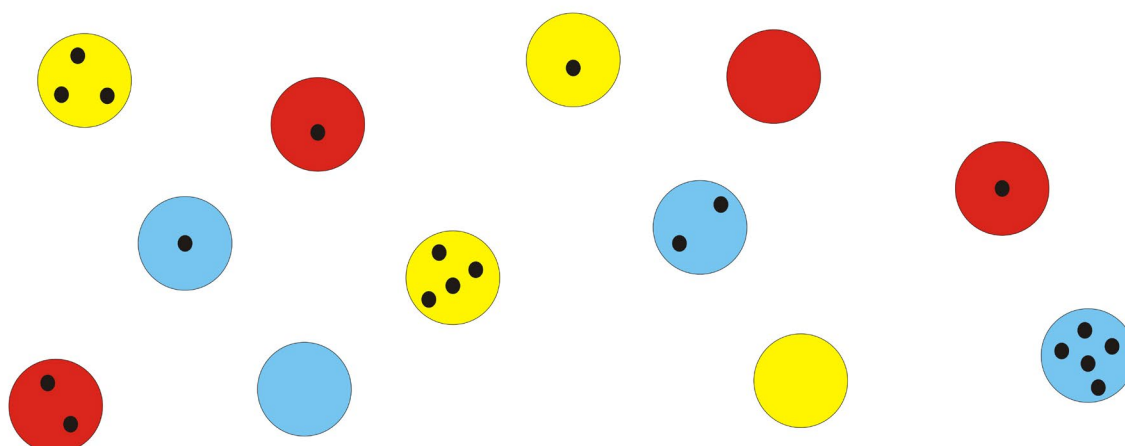
Vytvoř 3. •••

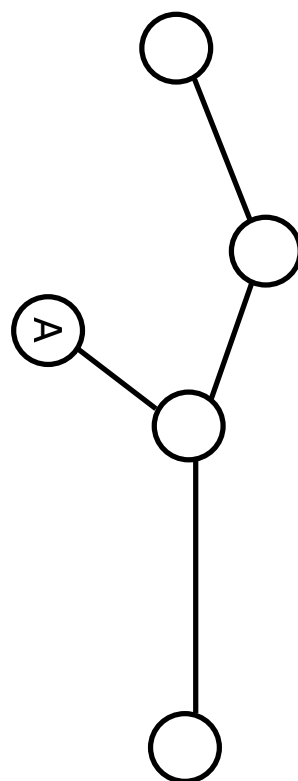
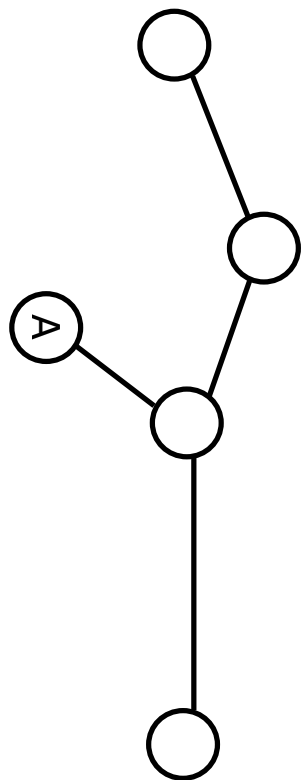
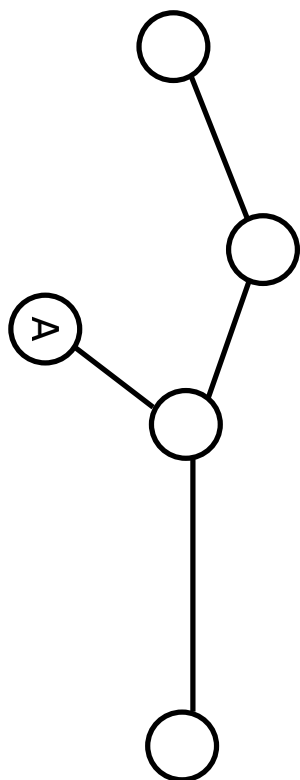
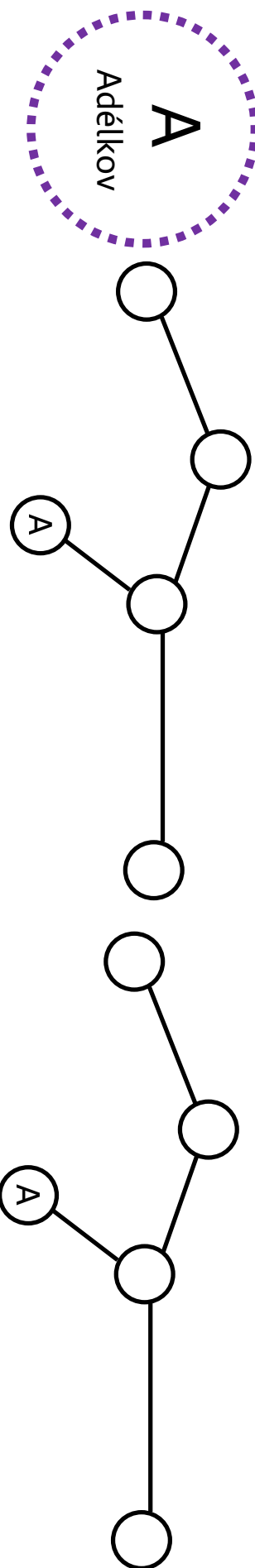
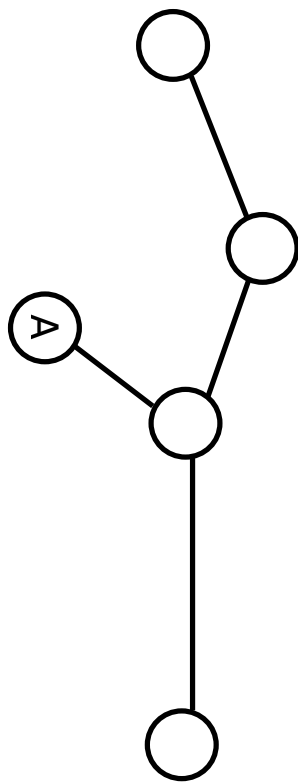
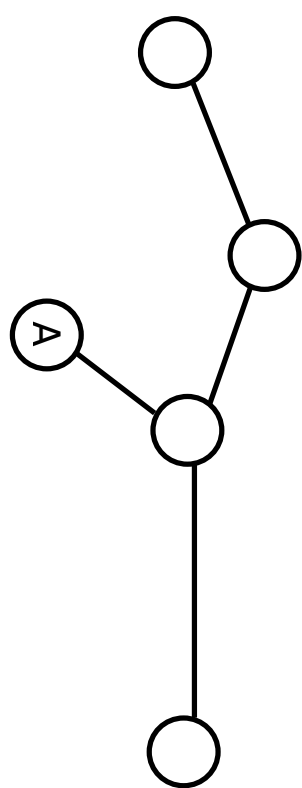


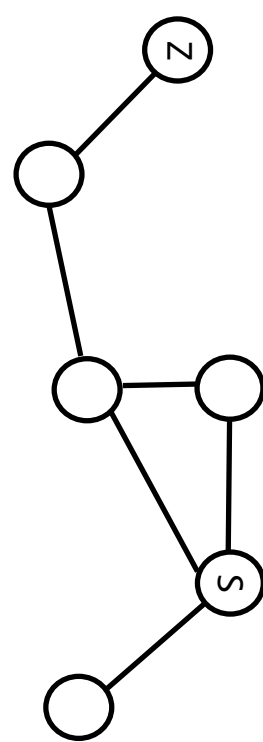
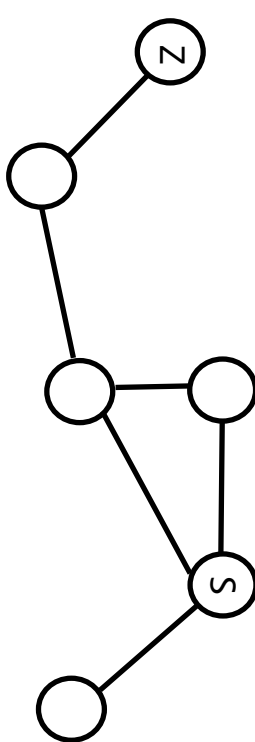
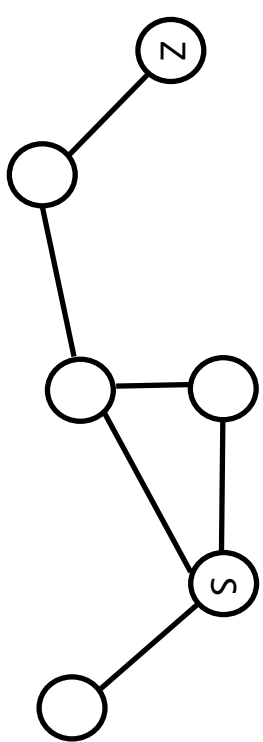
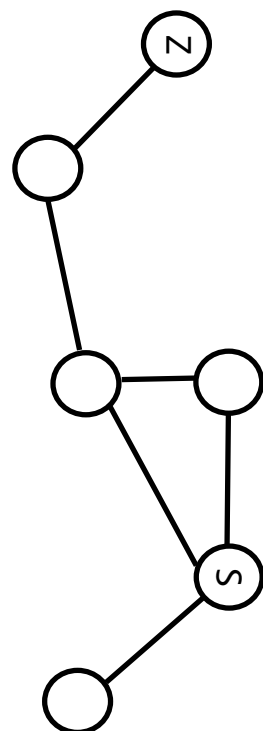
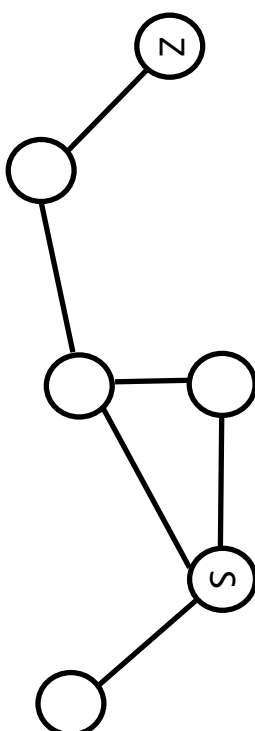
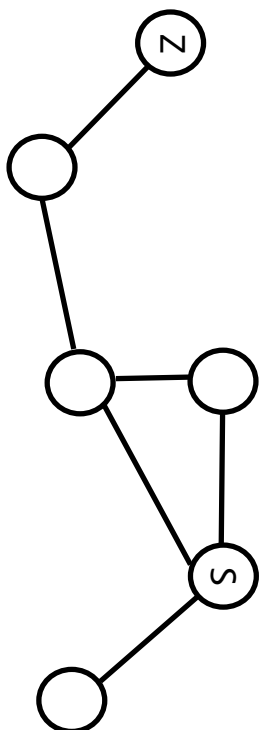
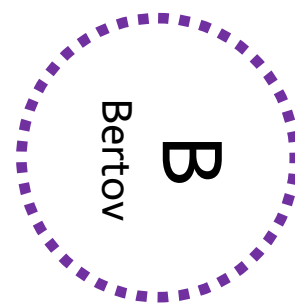
Vytvoř 4. ••••

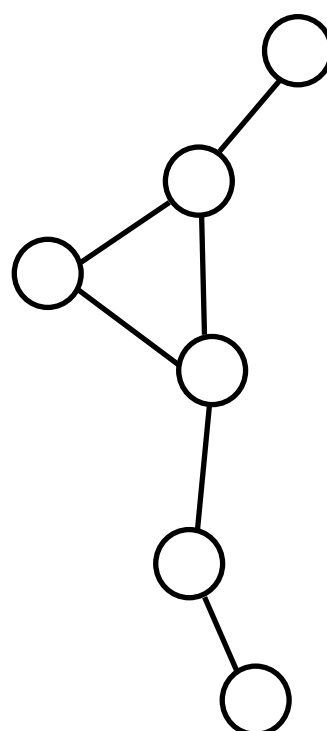
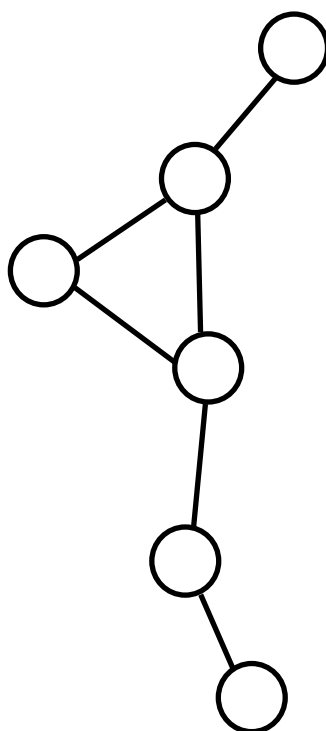
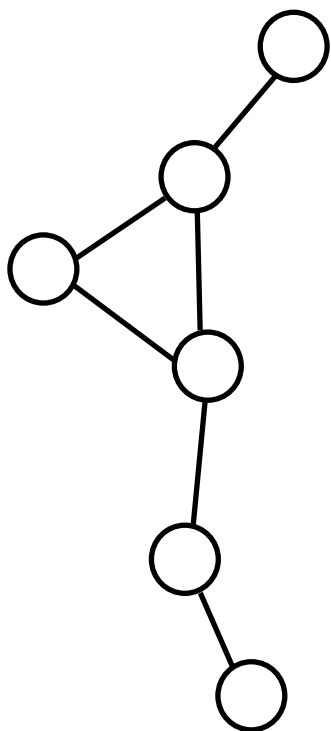
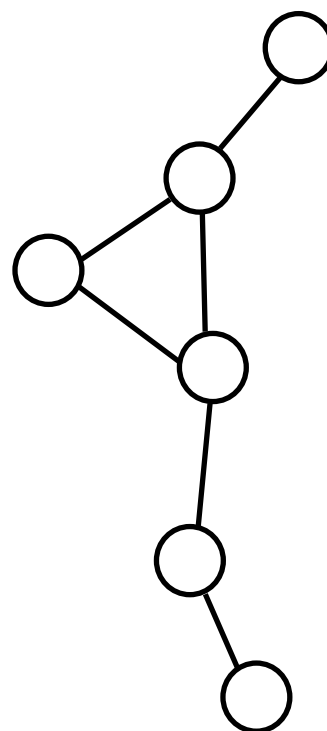
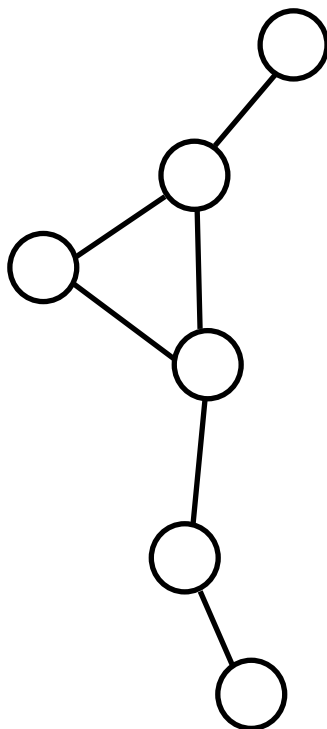
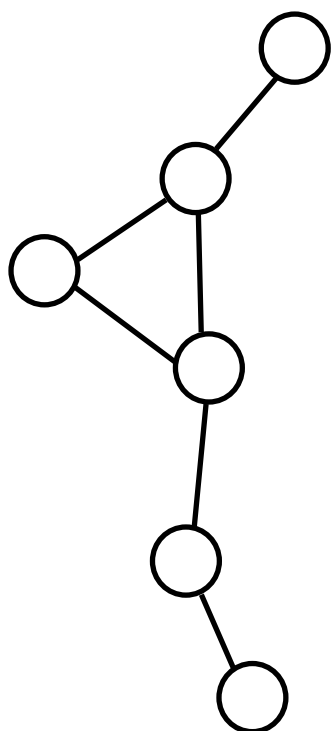
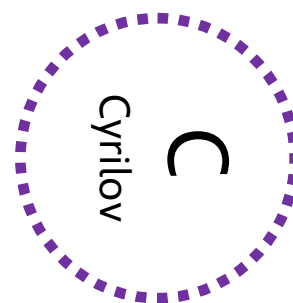


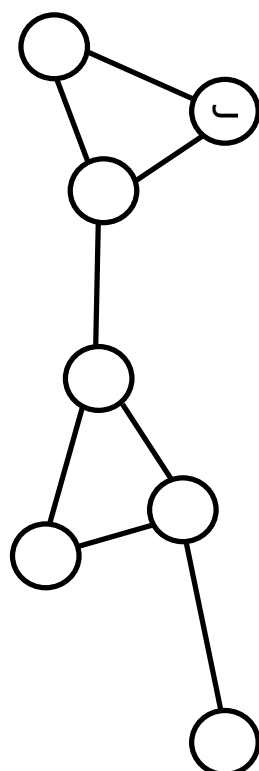
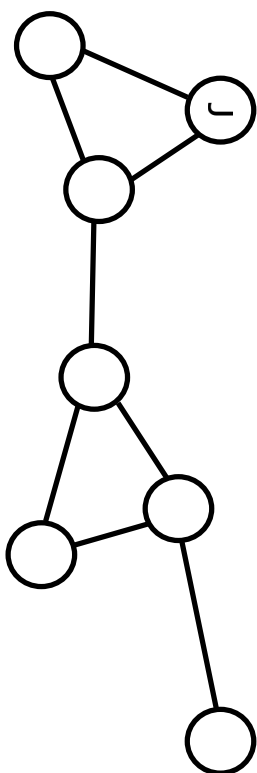
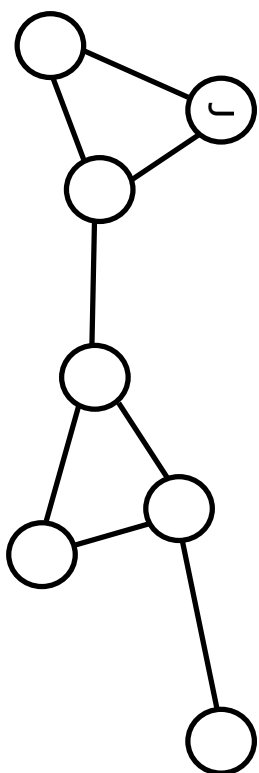
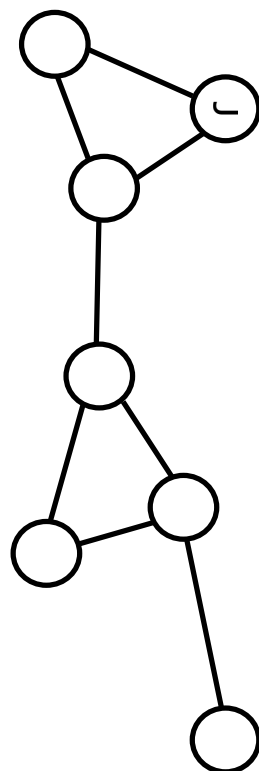
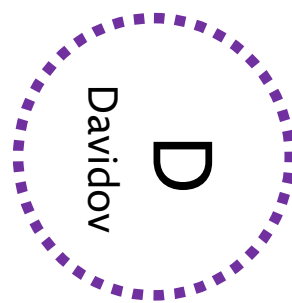
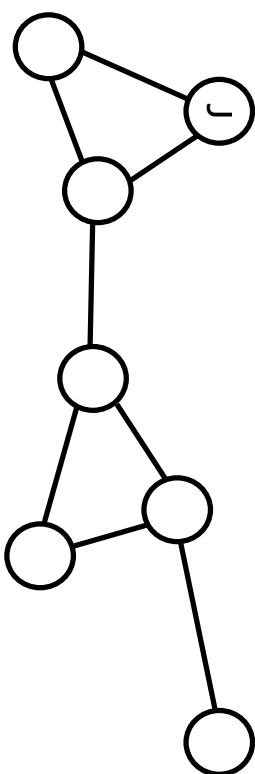
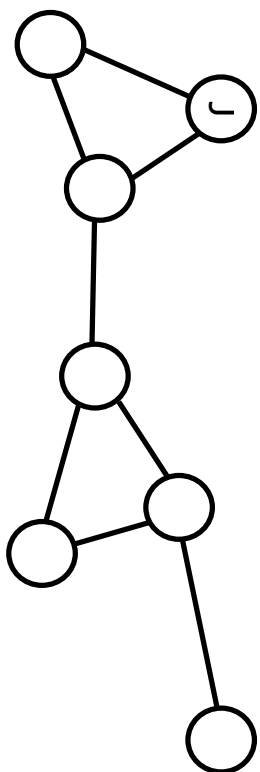
Vytvoř 5. •••••

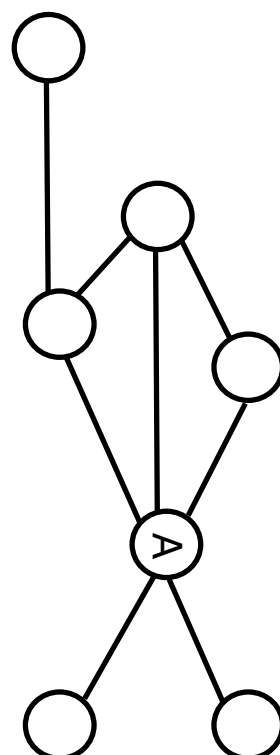
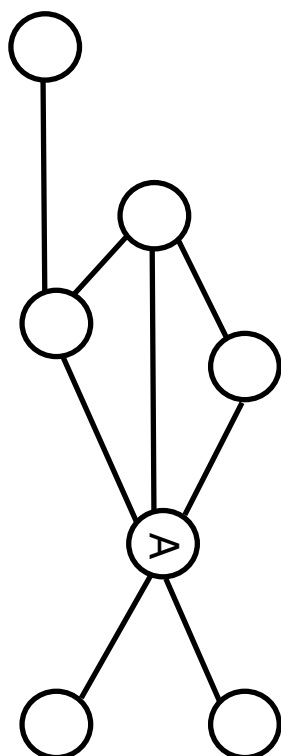
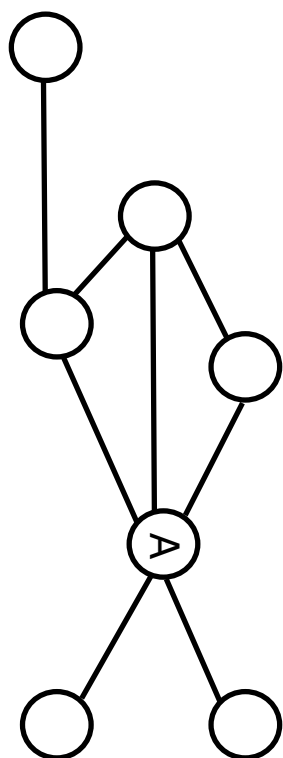
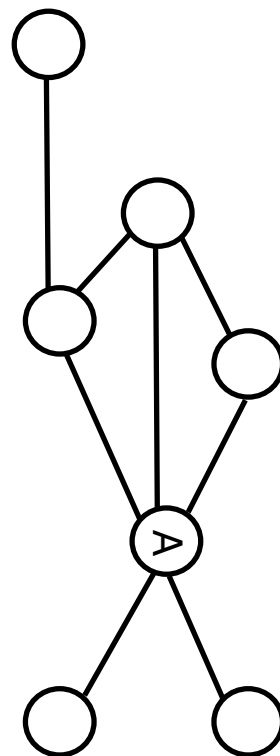
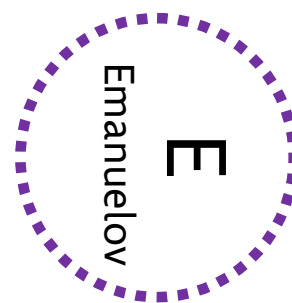
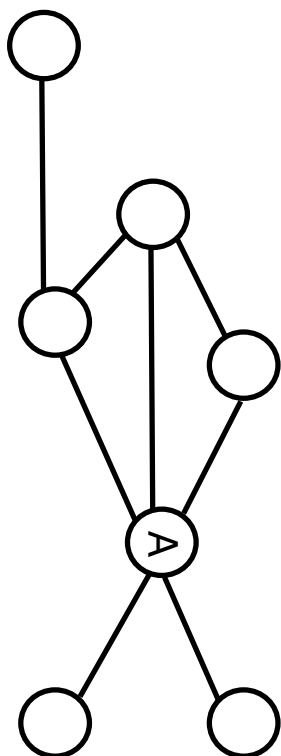
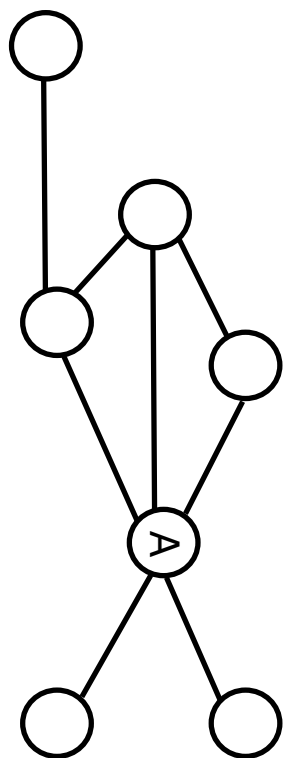


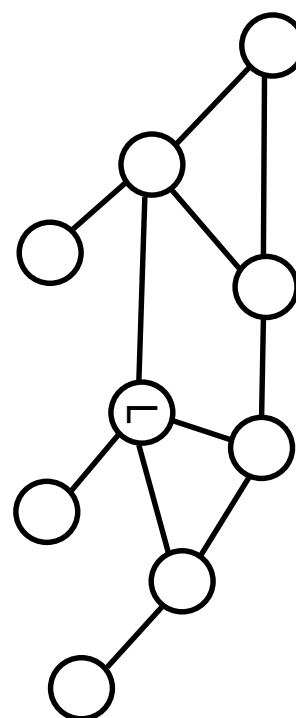
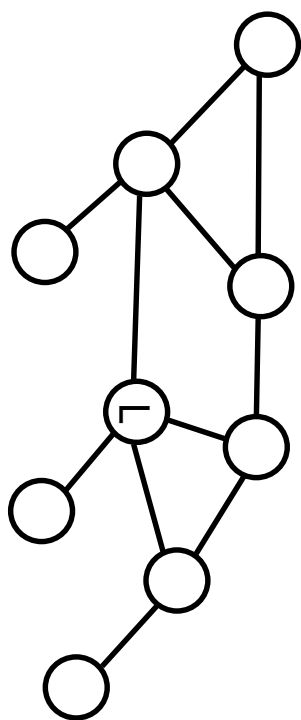
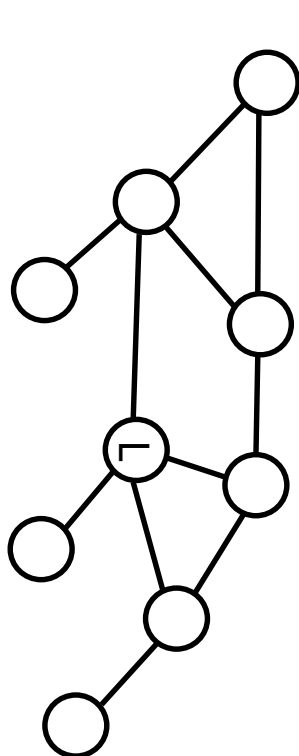
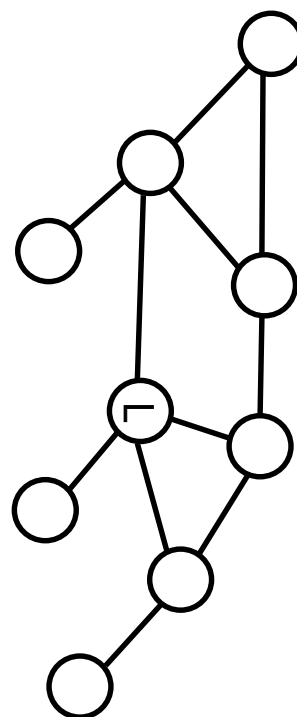
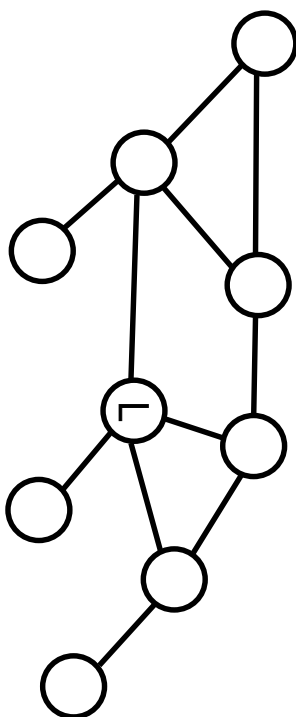
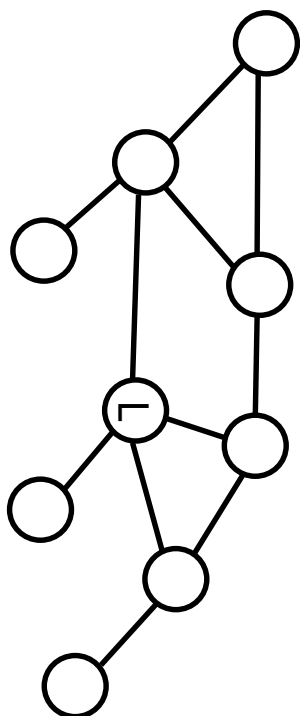
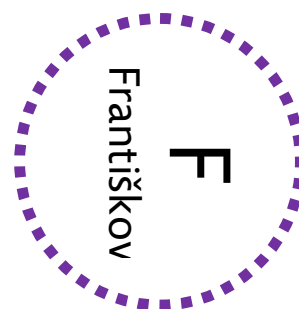


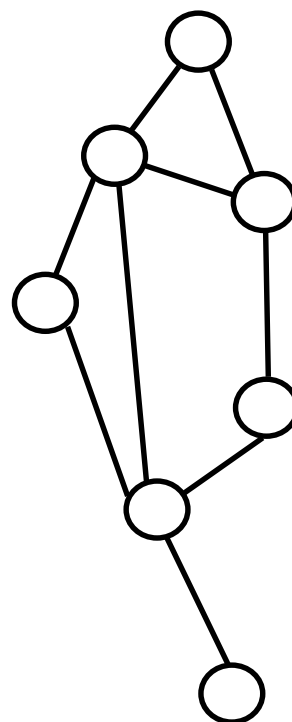
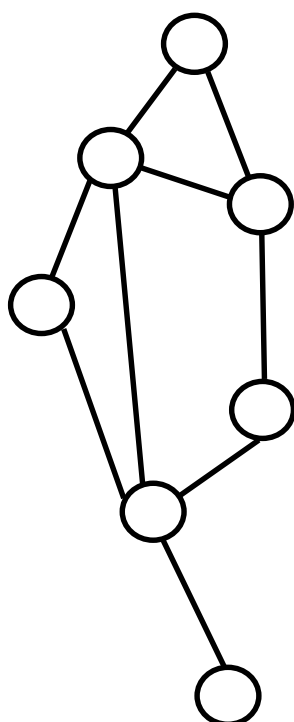
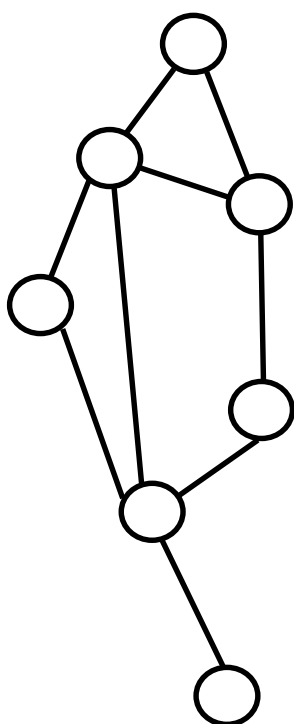
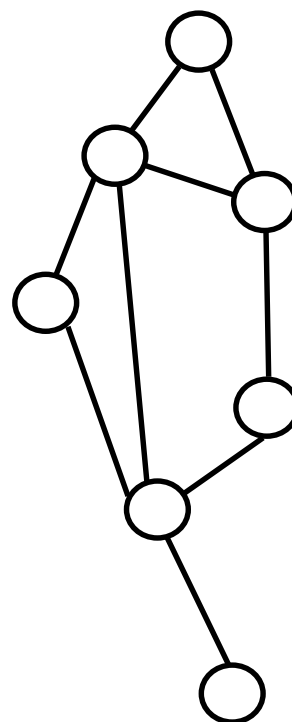
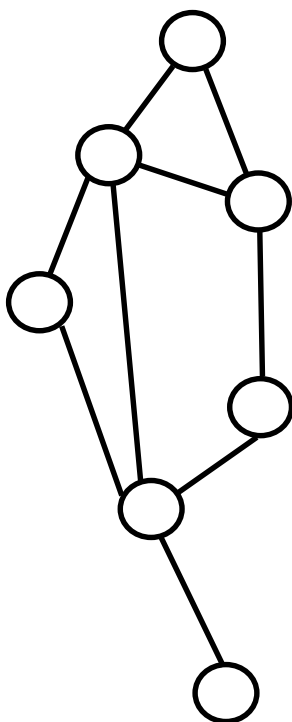
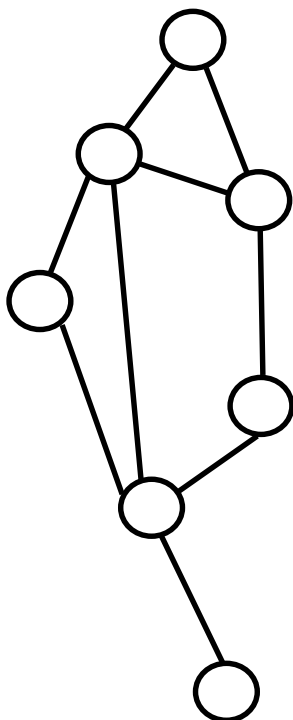


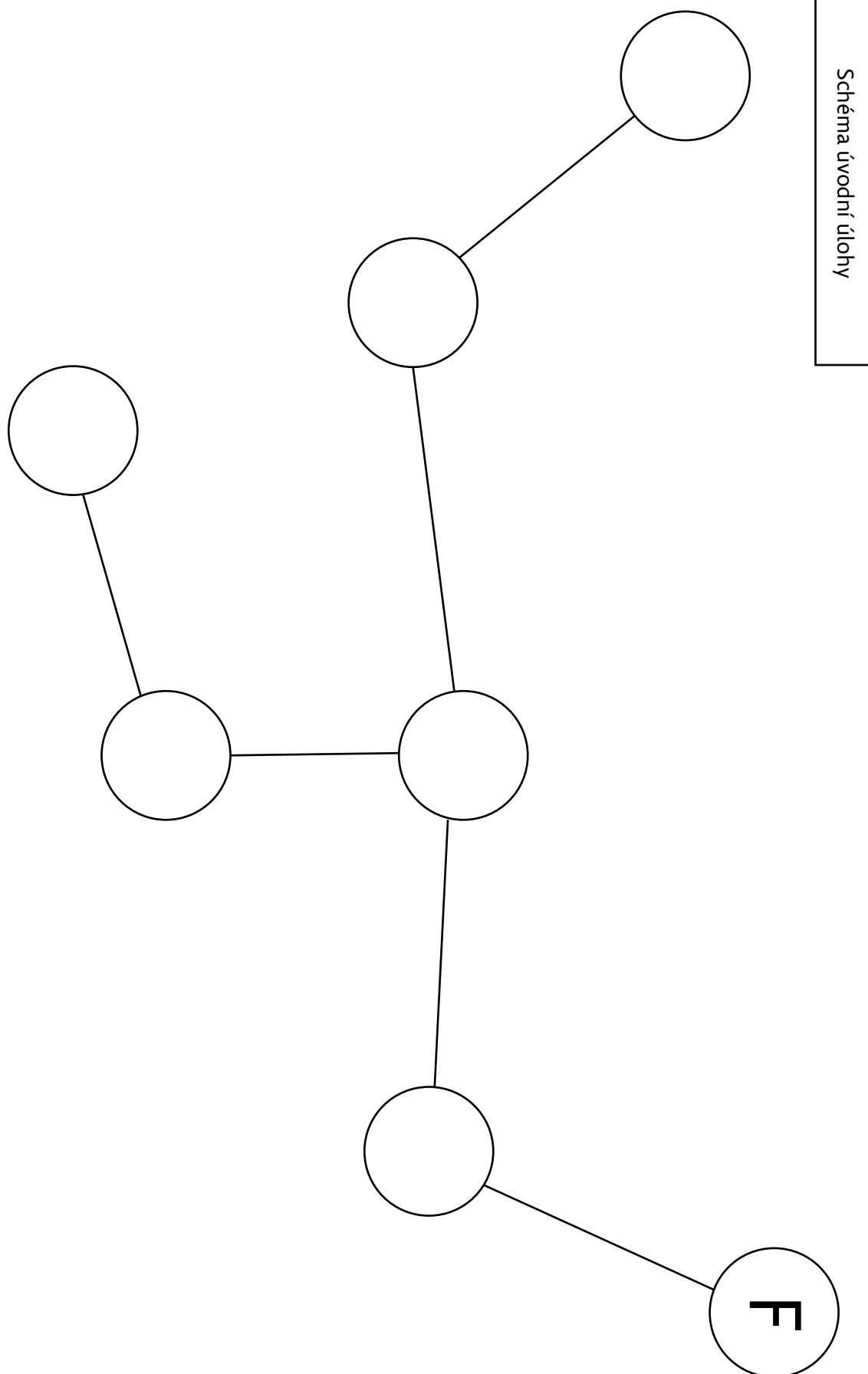












Zadání tras pro nákladák a bagr



A – G – B – E – A

Adélkov

Gábinkov

Bertov

Emanuelov

Adélkov

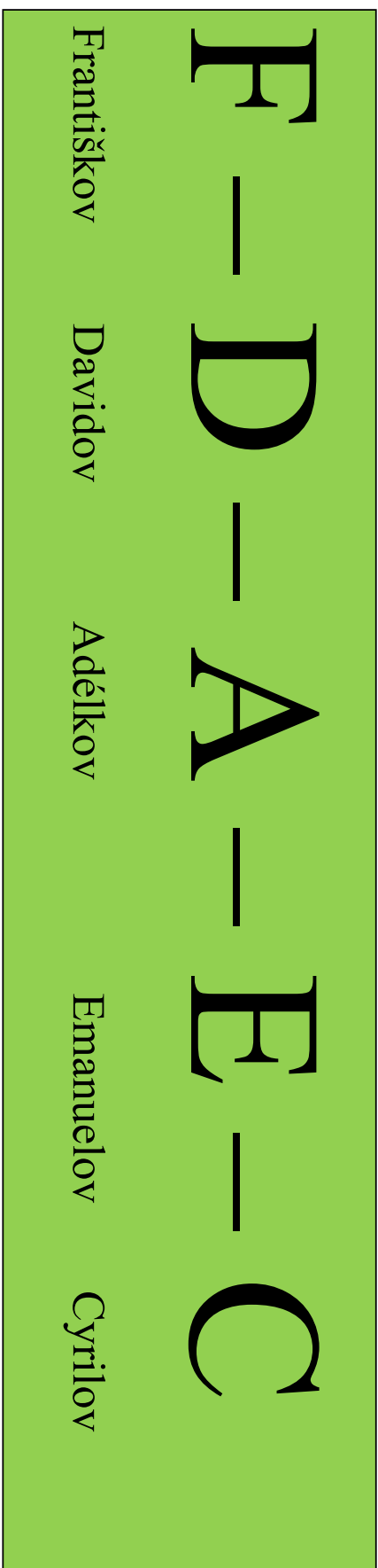
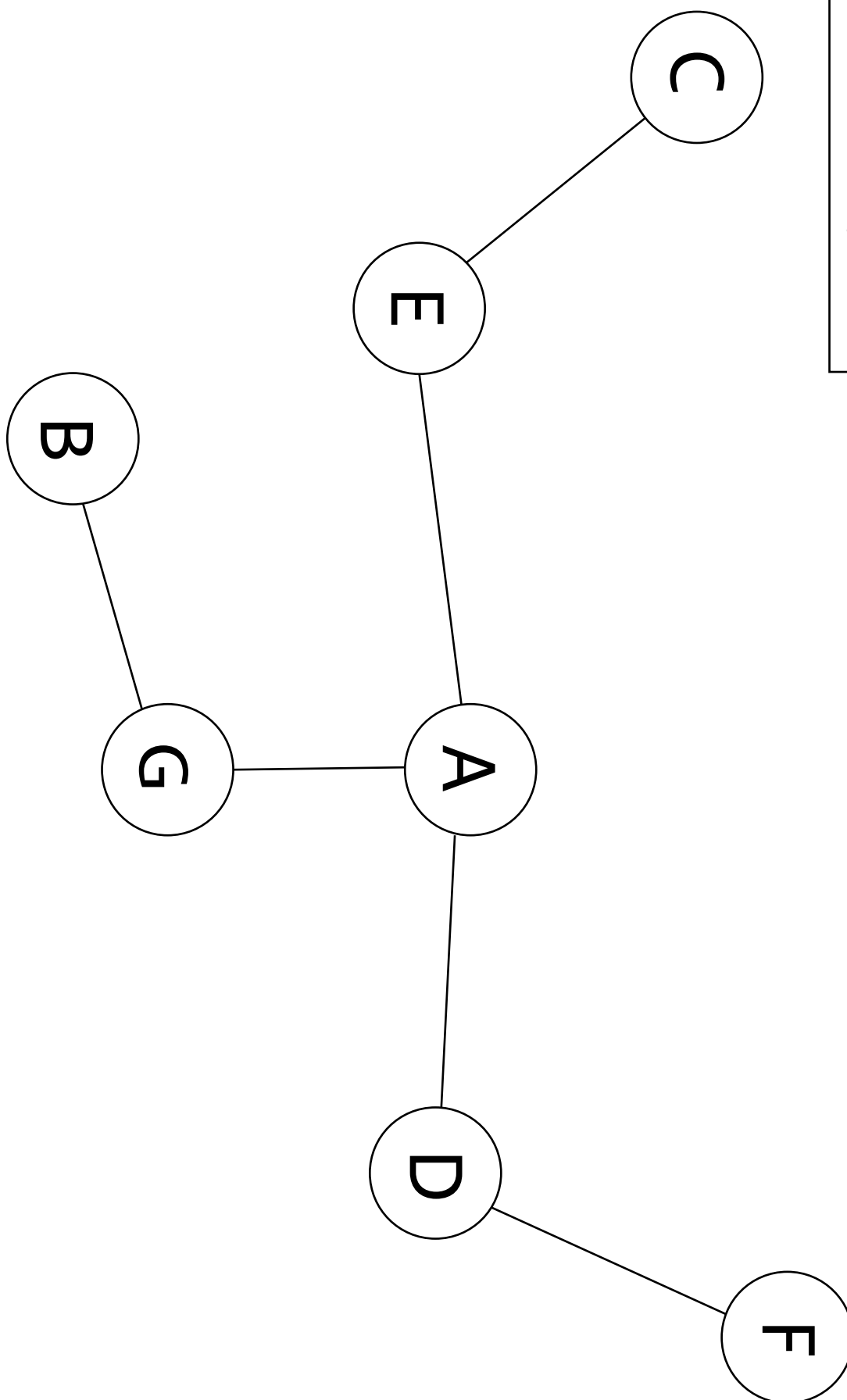
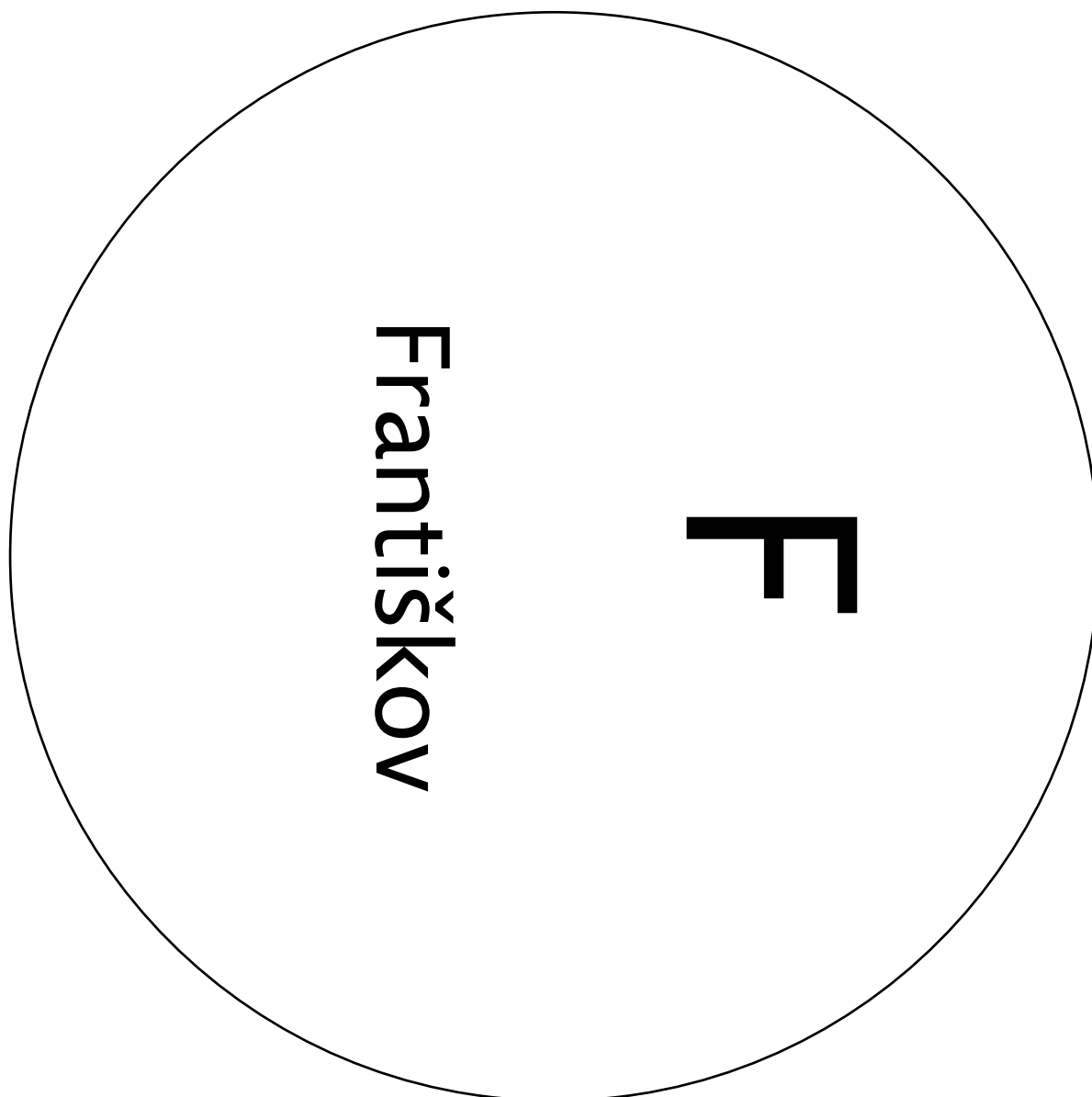
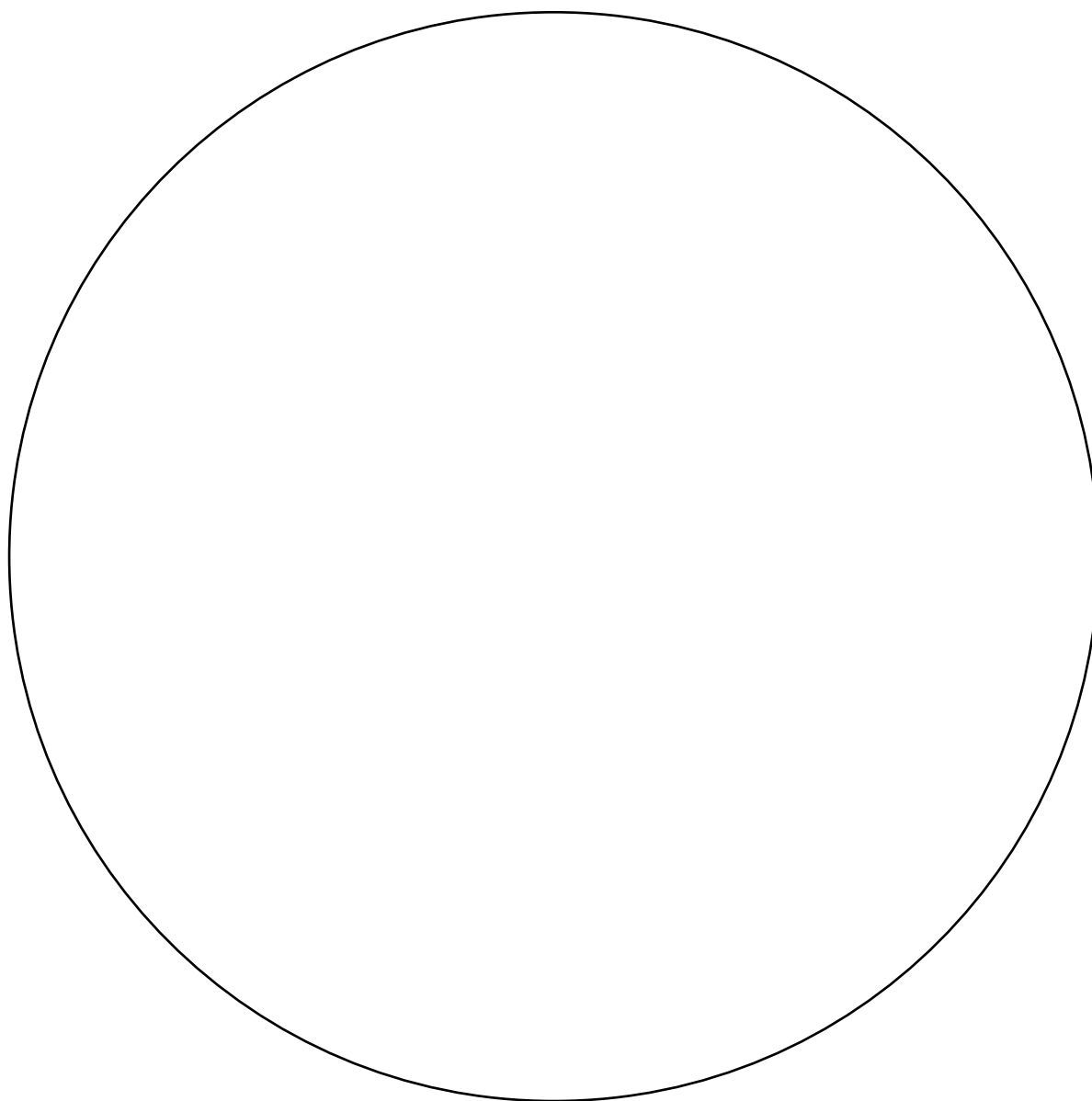
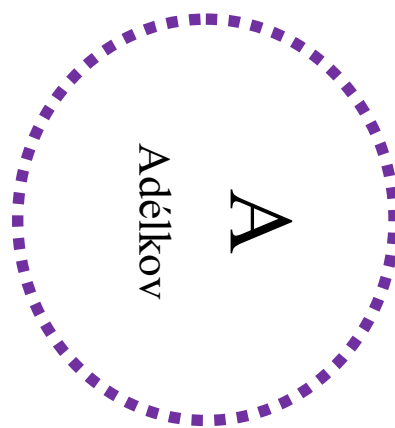
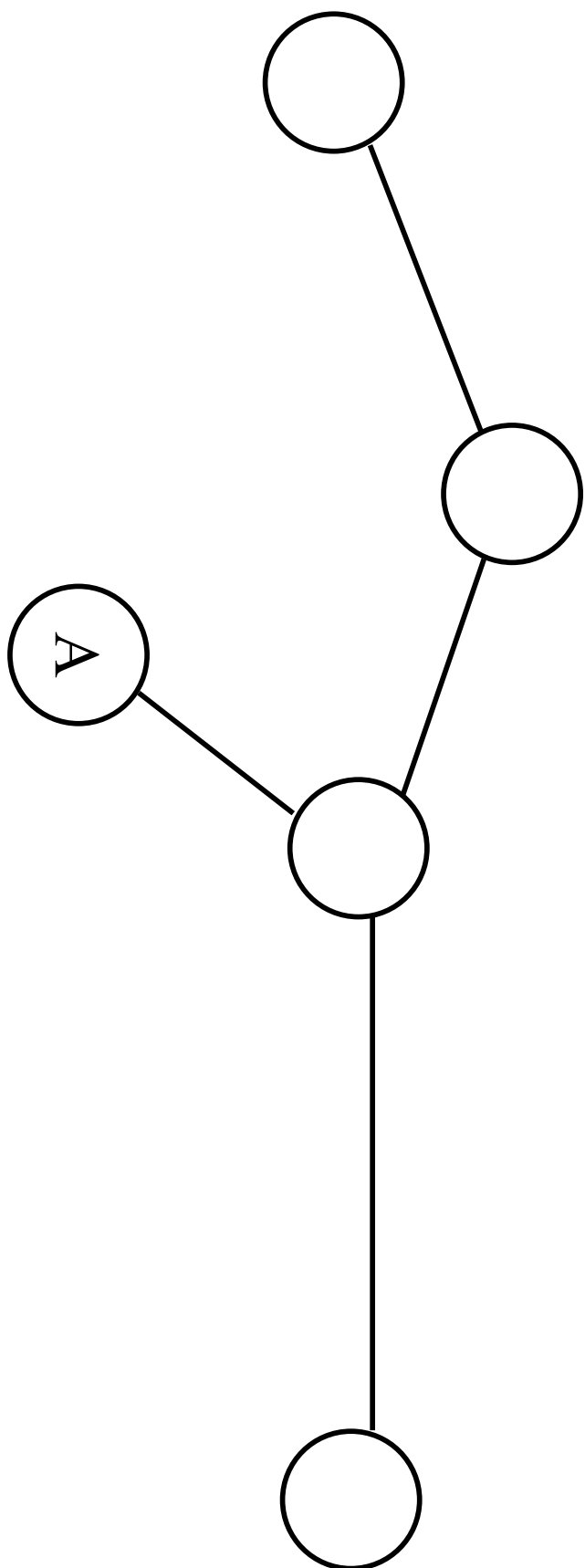


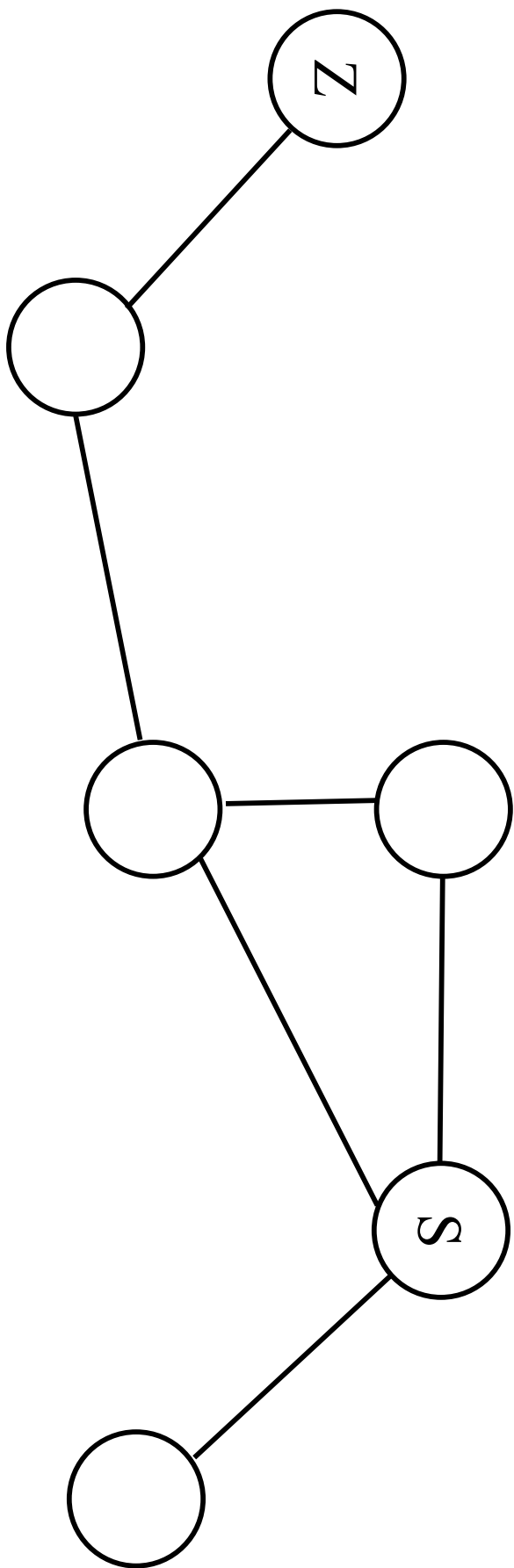
Schéma úvodní úlohy – ŘEŠENÍ





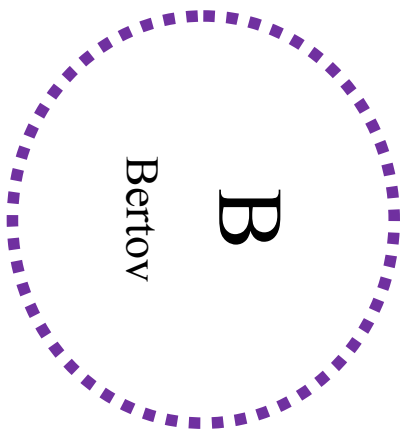


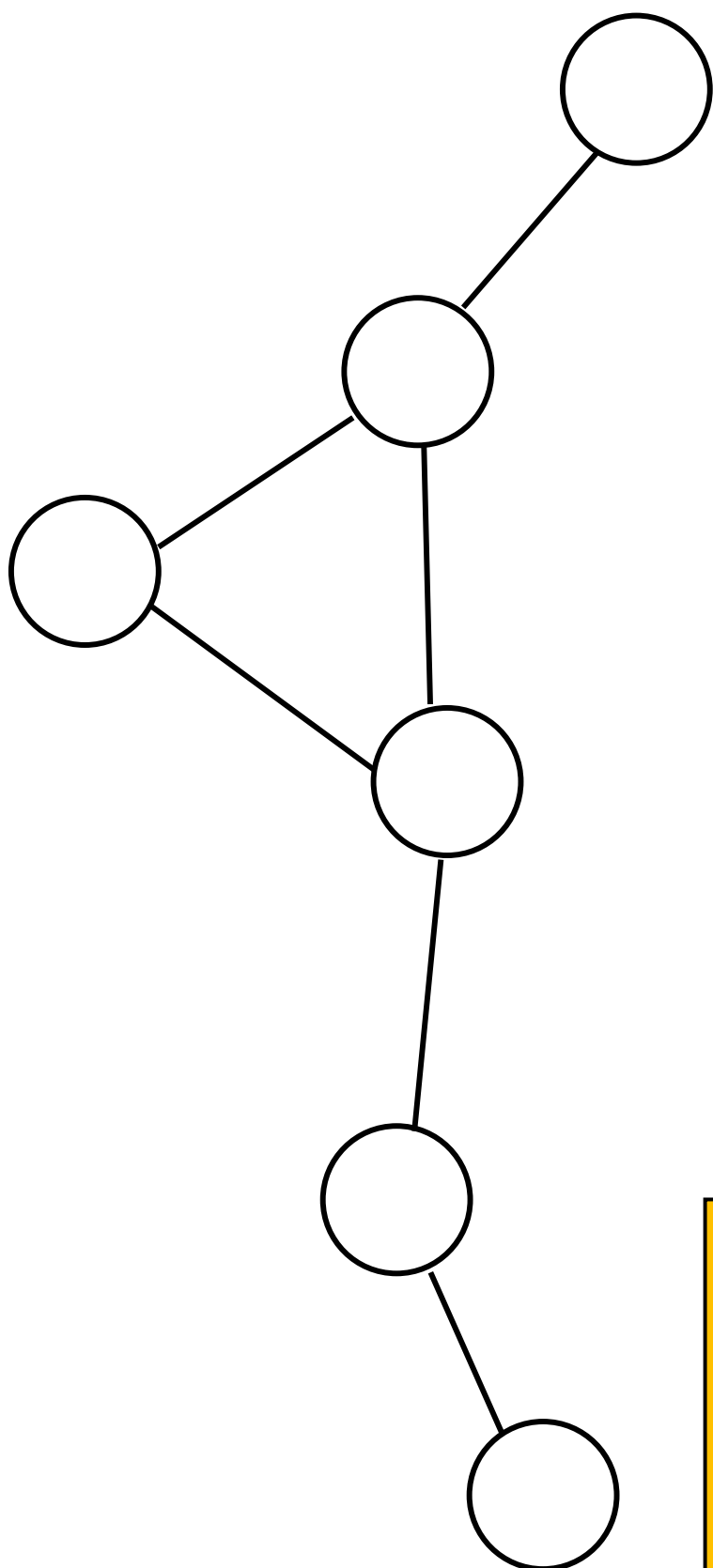




S – R – T – Z

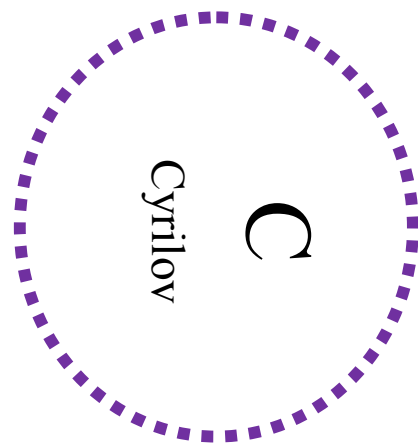
R – O – S – K

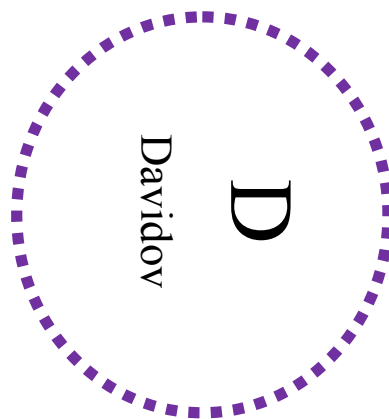
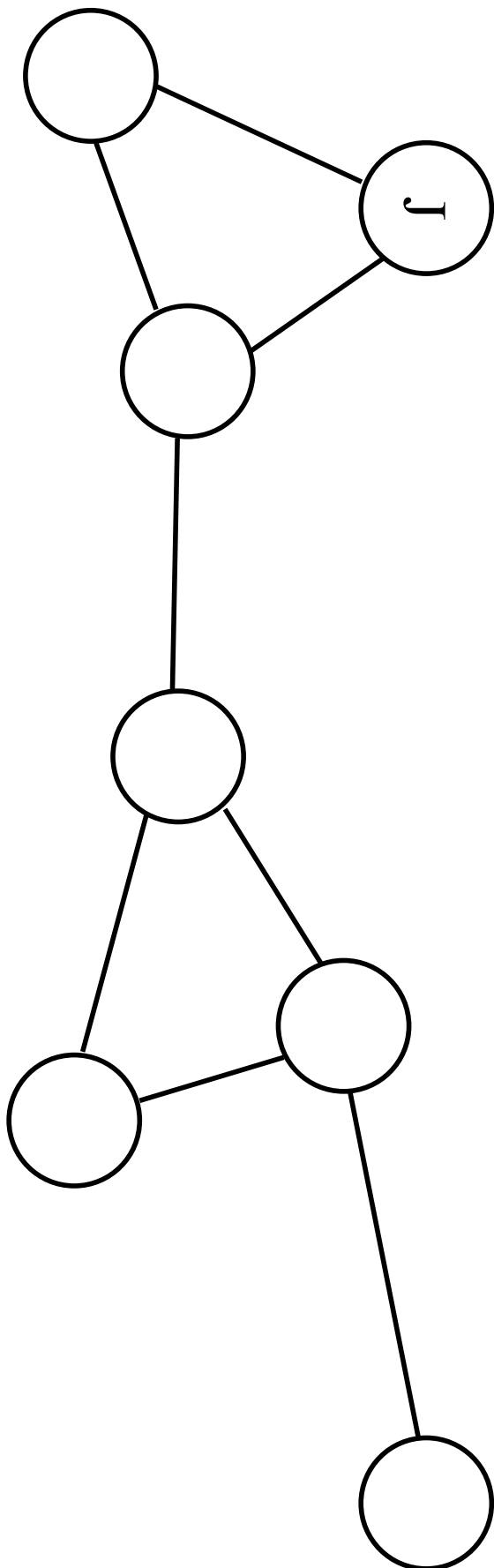




K-L-C-M

R-F-M-L



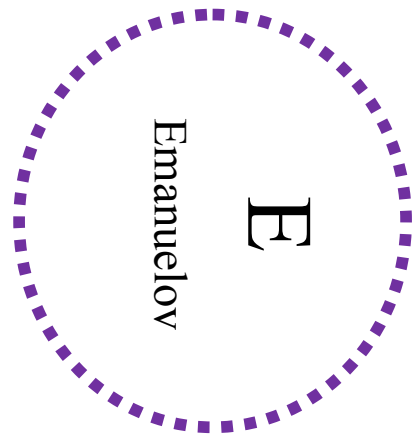
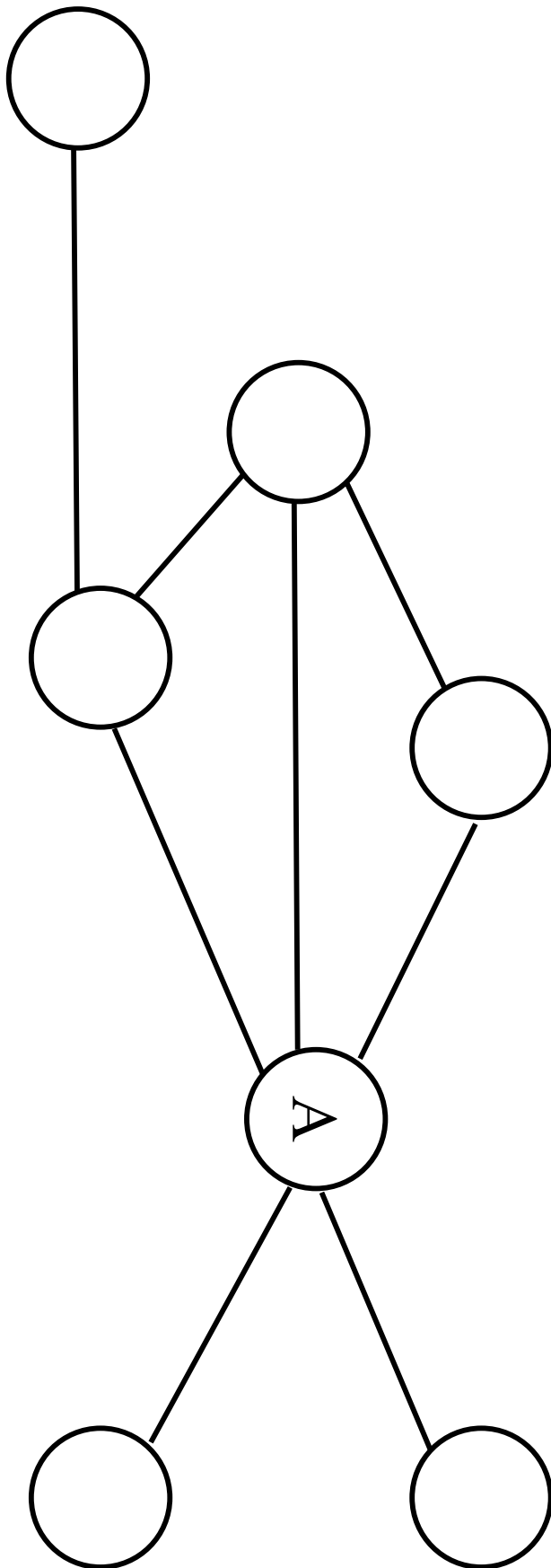


J - L - A - C - B - K



M - K - C - A - J



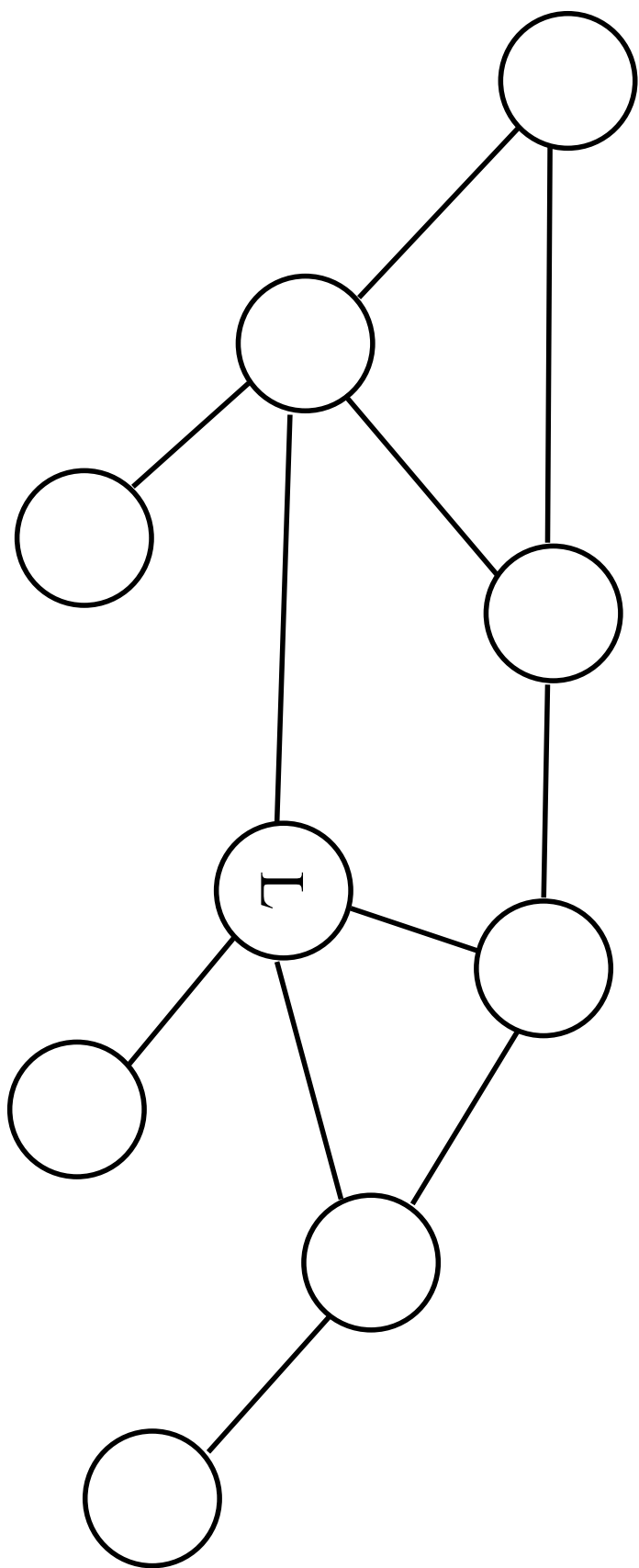


F – A – E – D – C – A – F



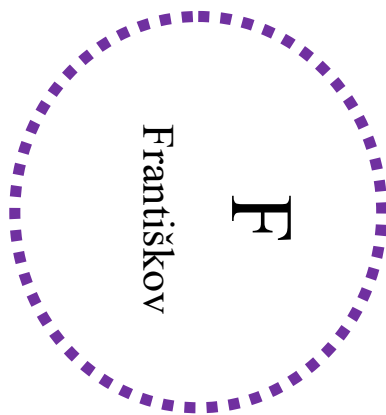
G – A – D – E – B

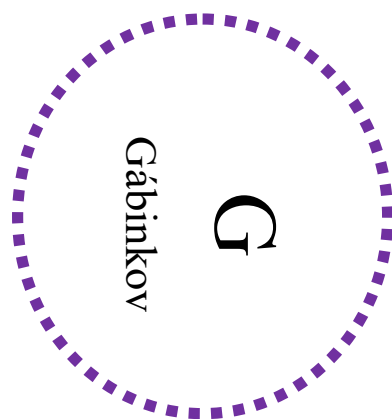
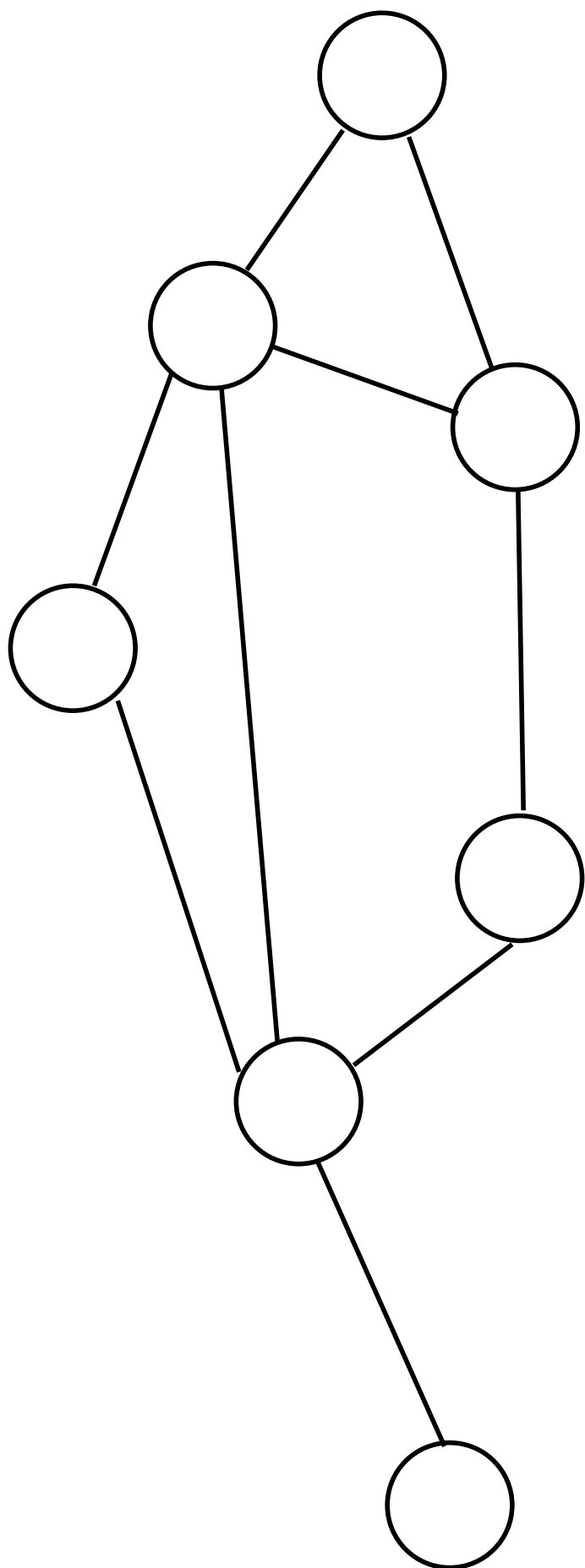




M - B - D - K - U - Z - X

R - L - B - K - U - L



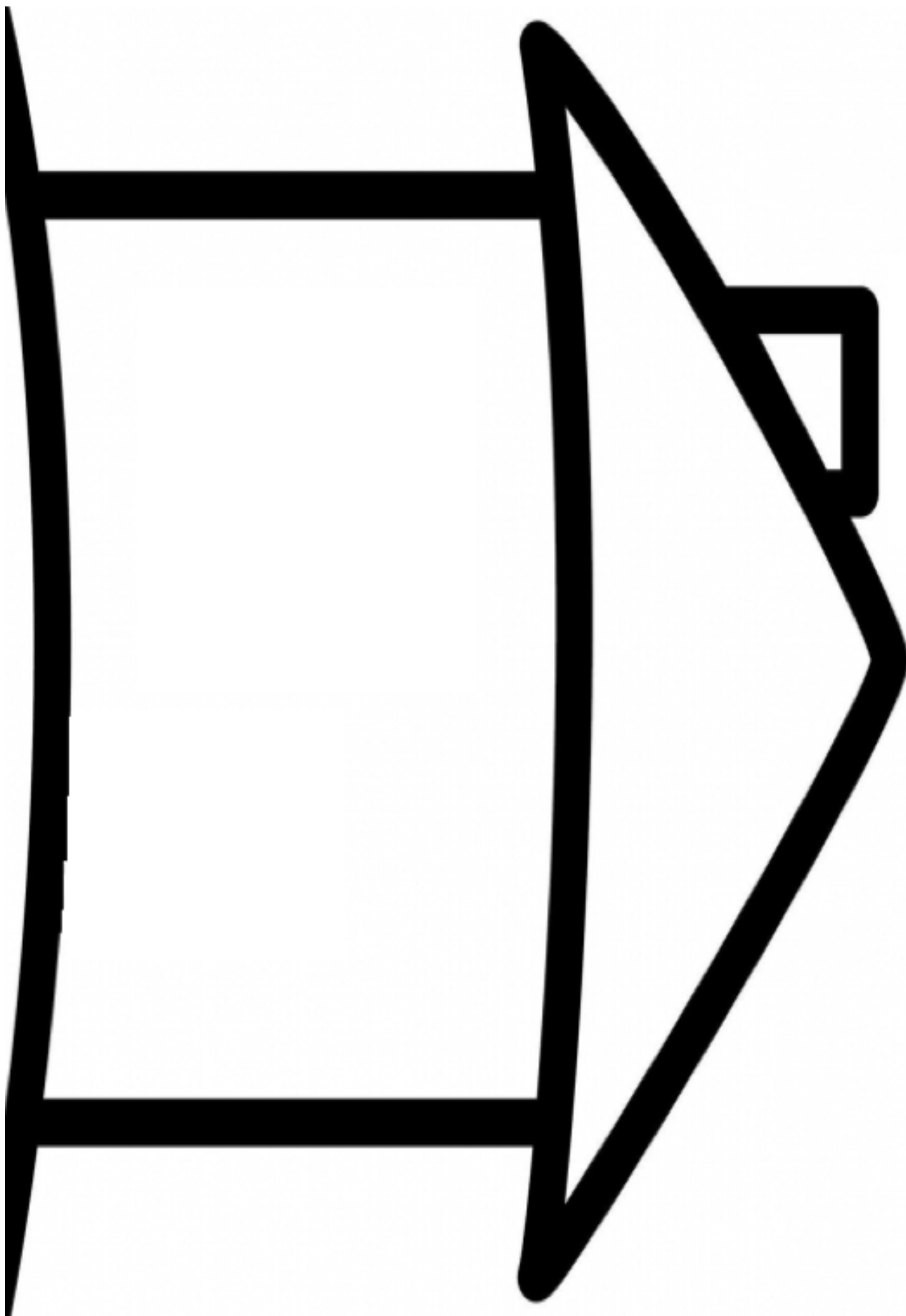


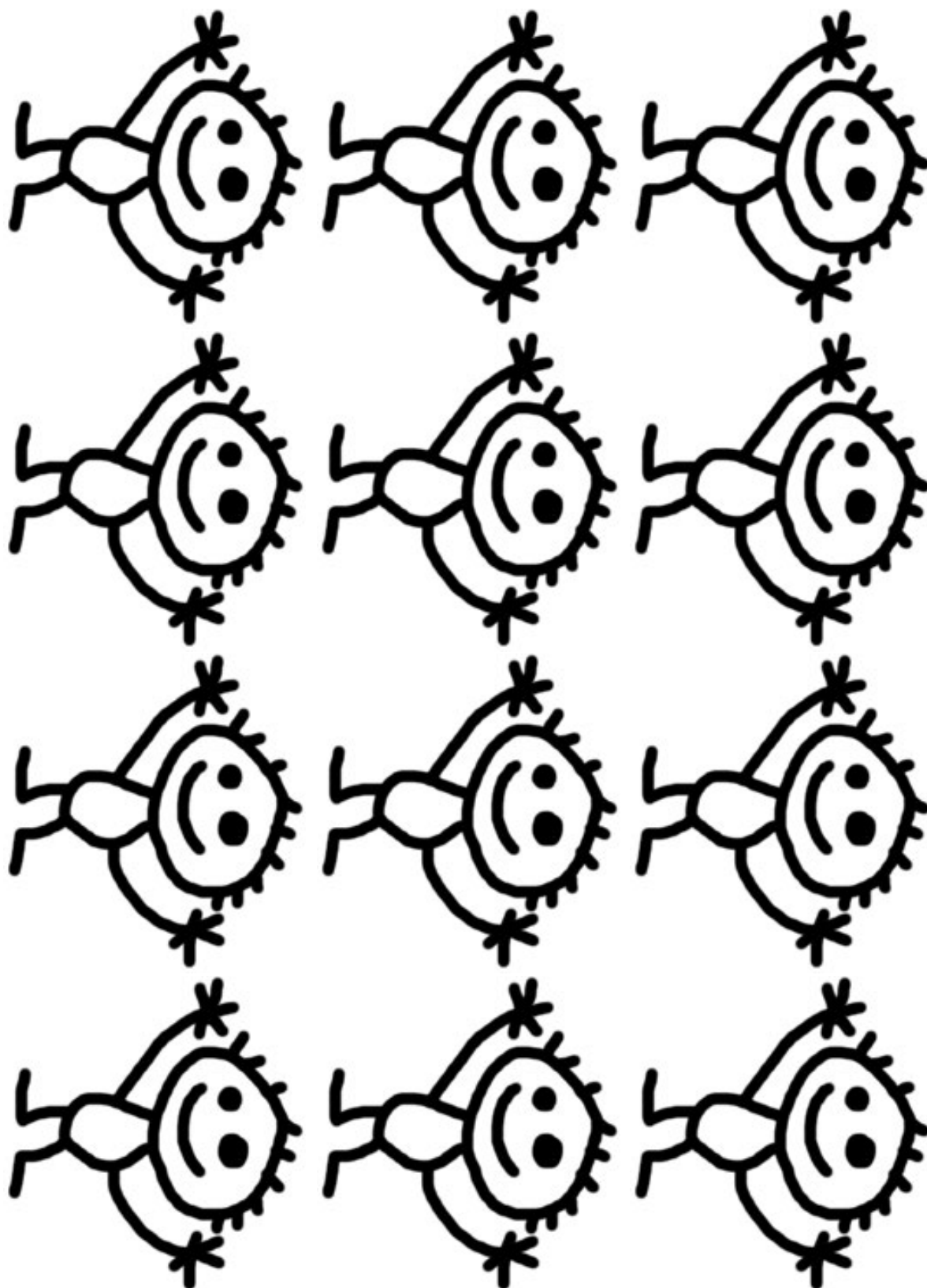
J - O - P - T - S - V - J

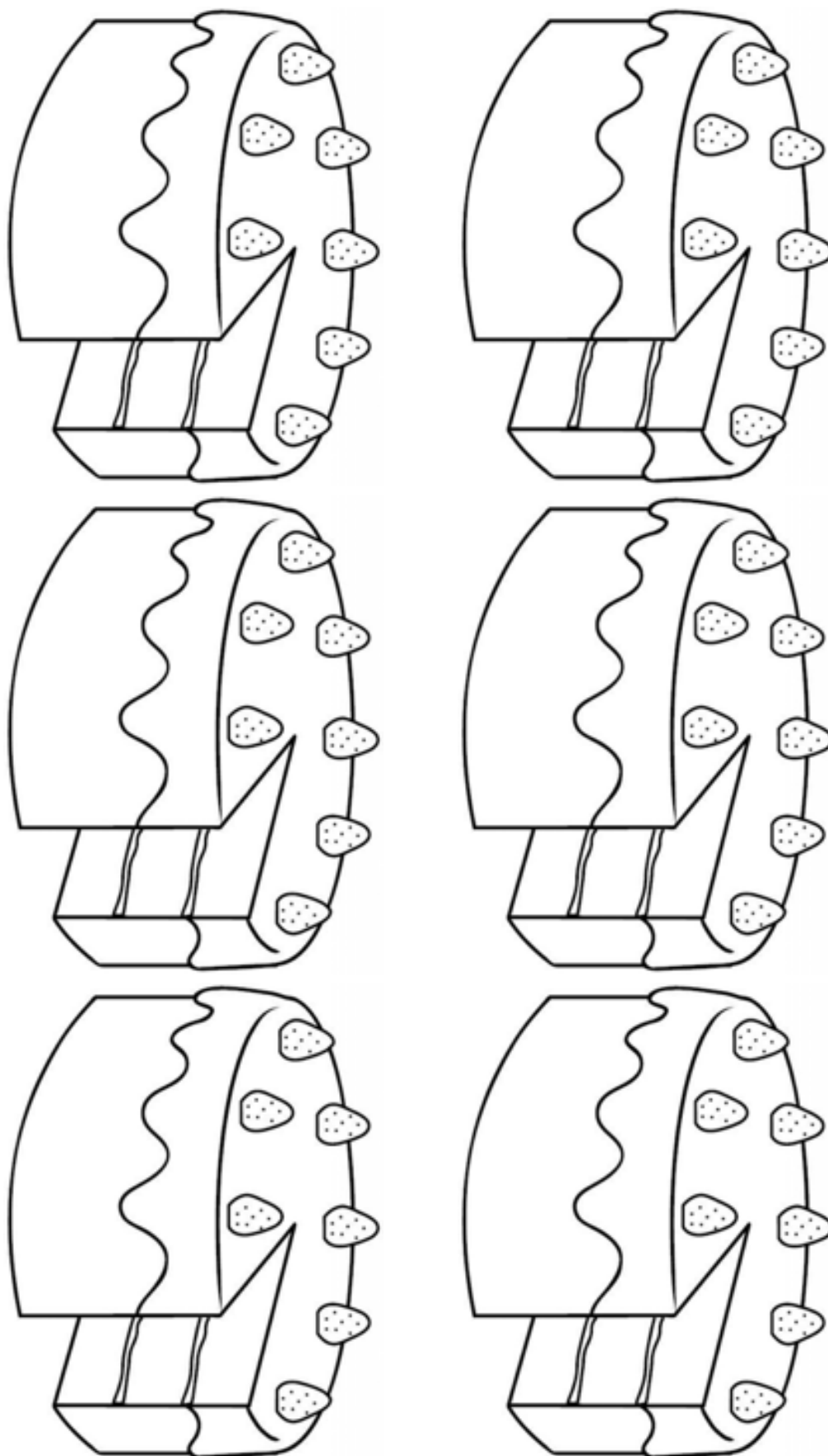


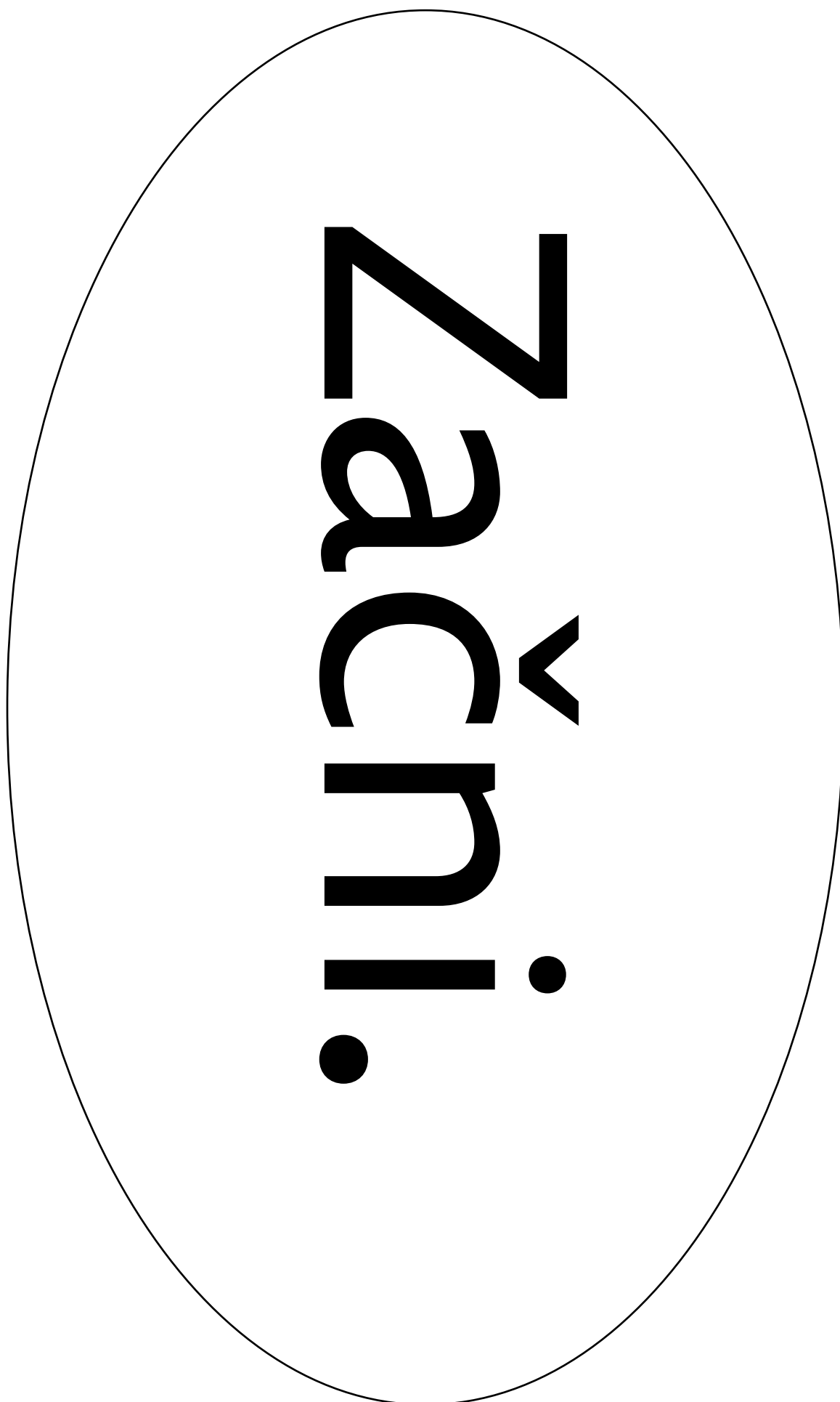
S - V - O - R

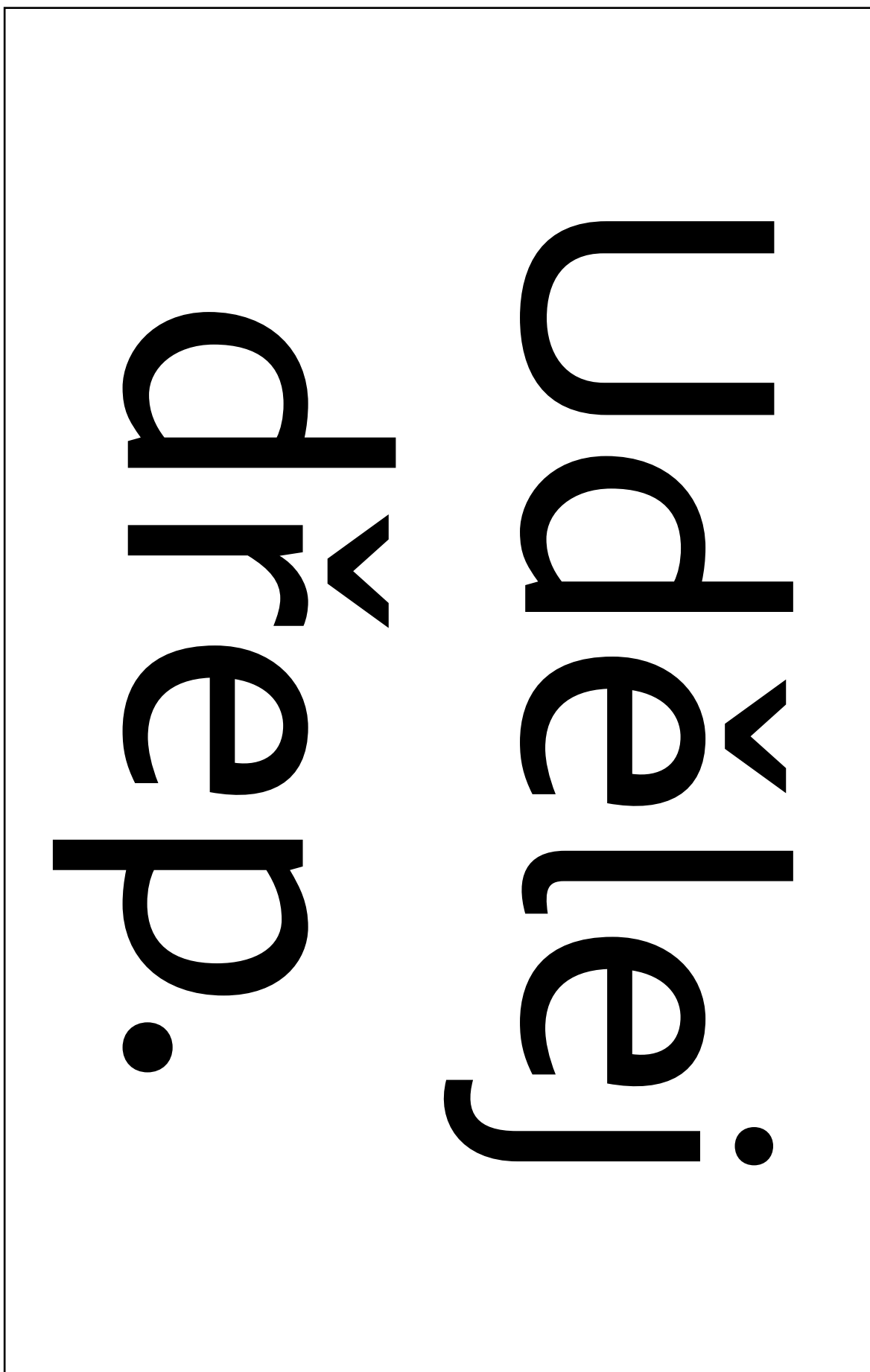




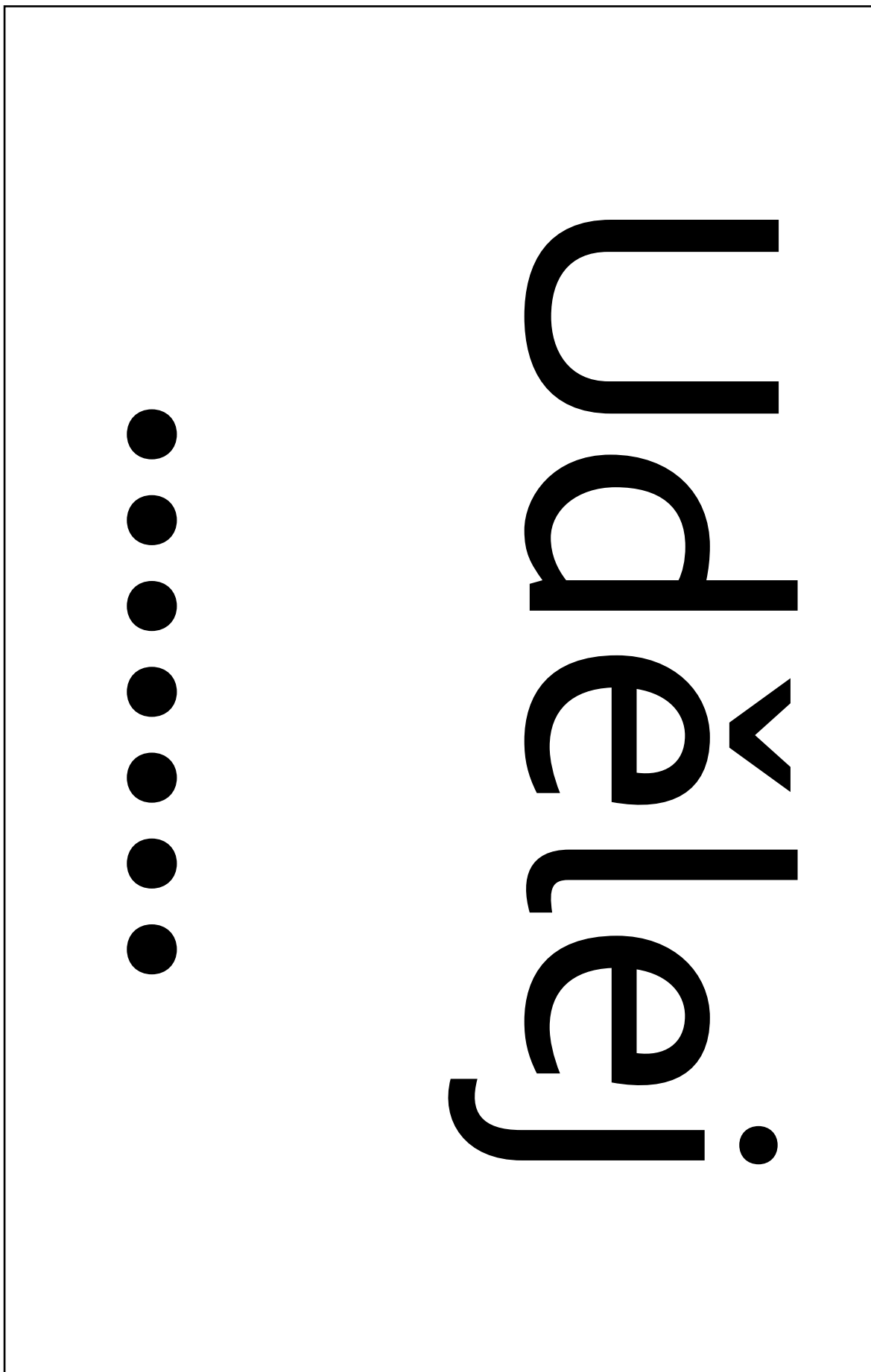


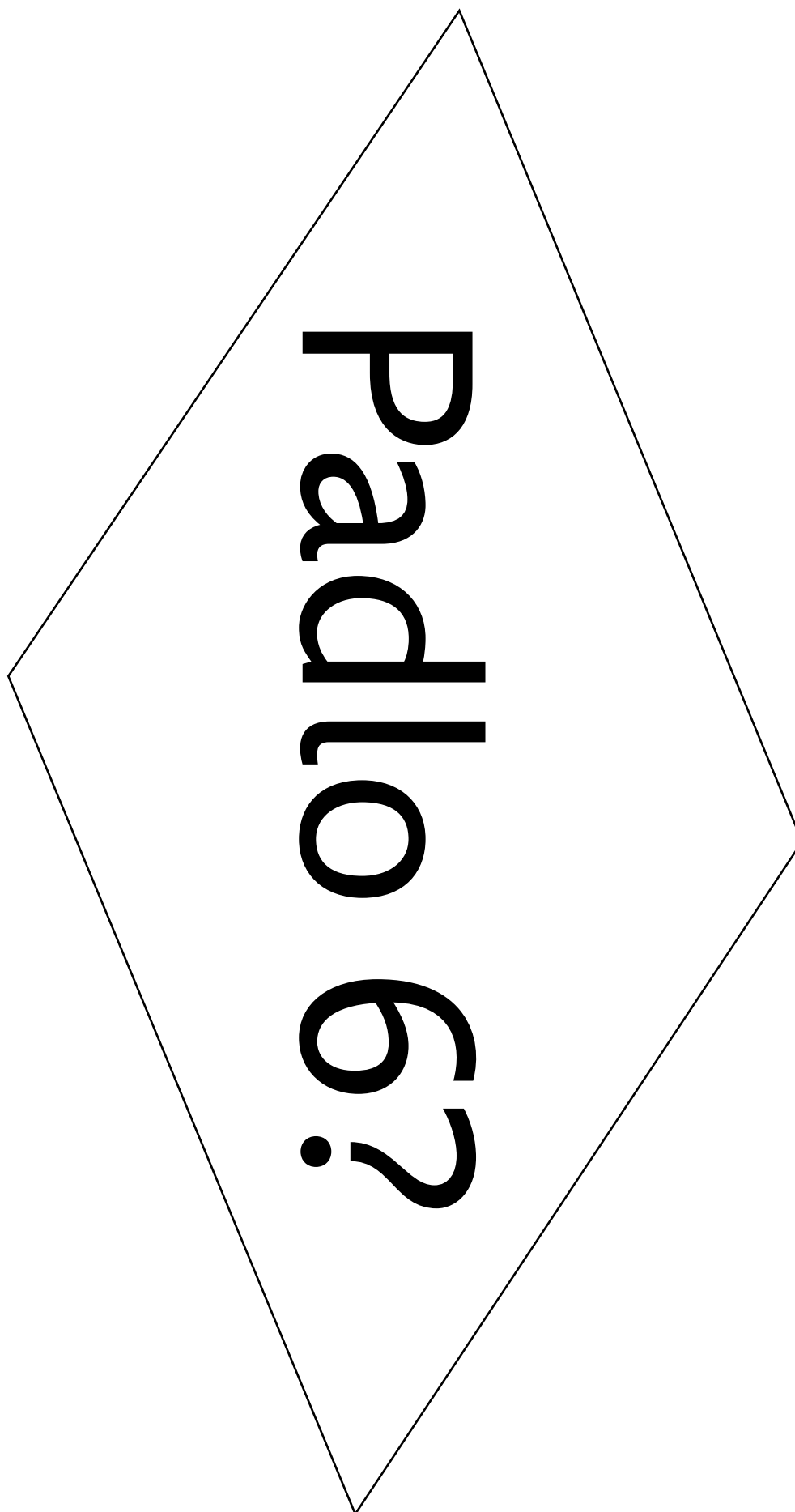


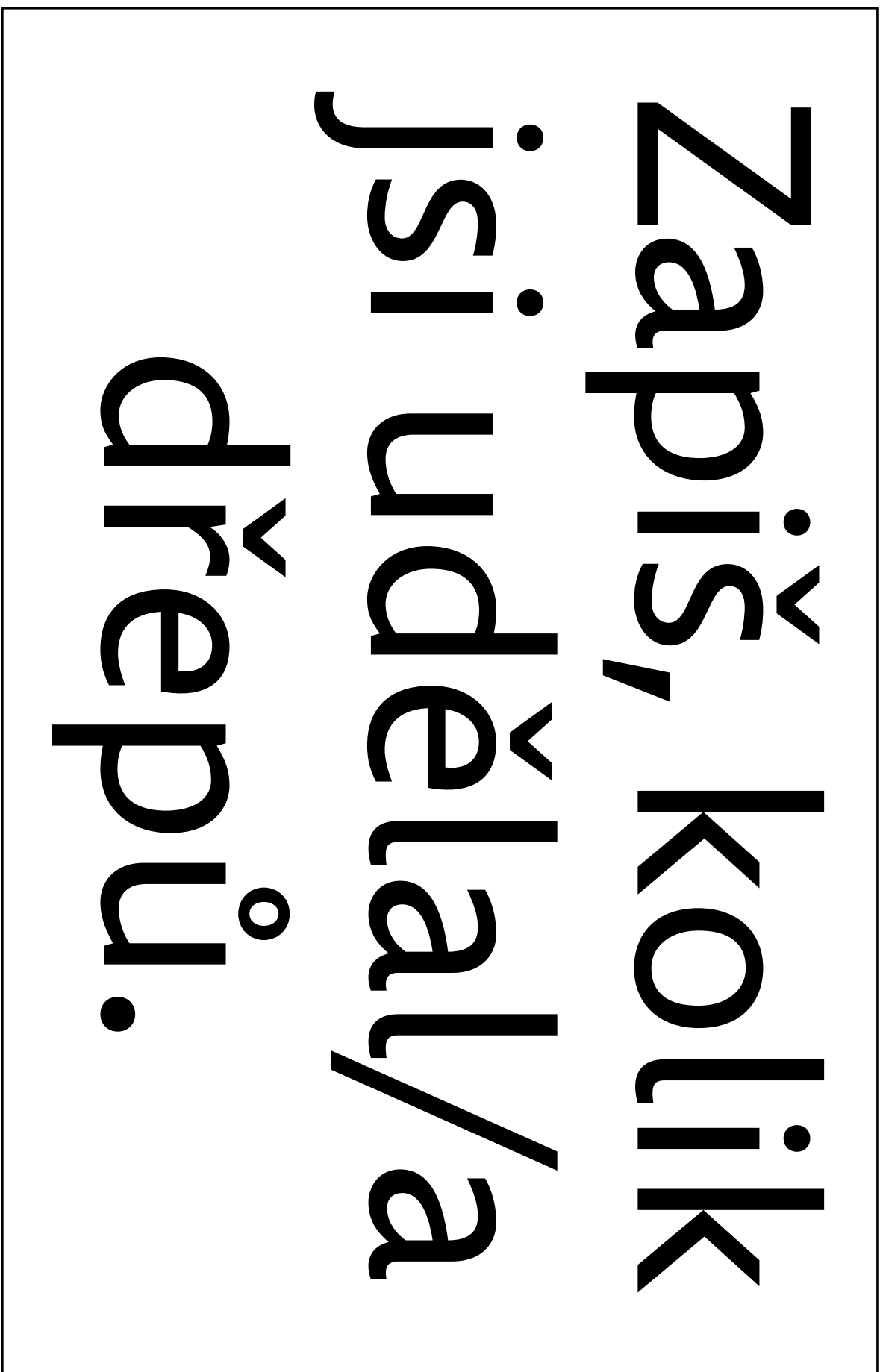


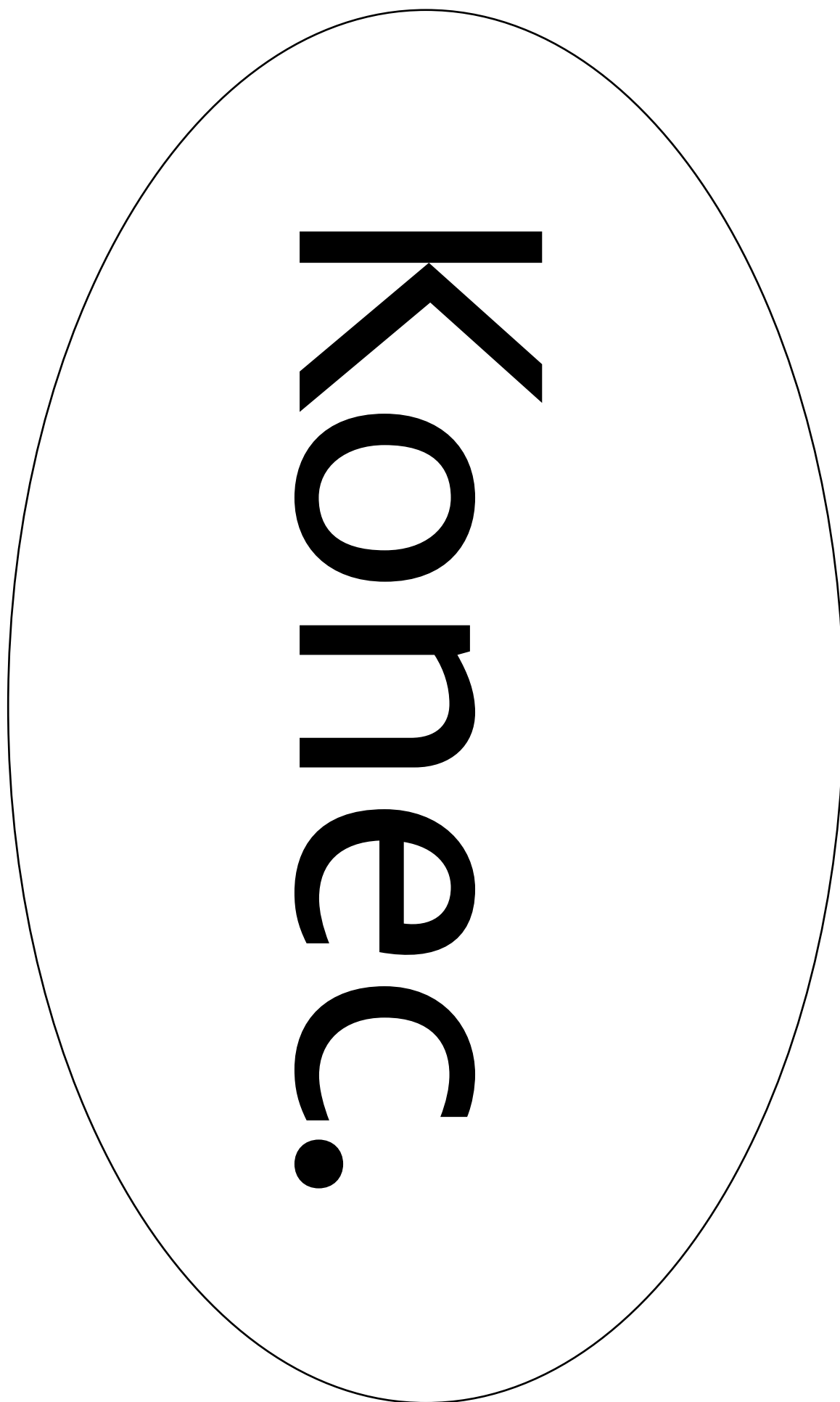


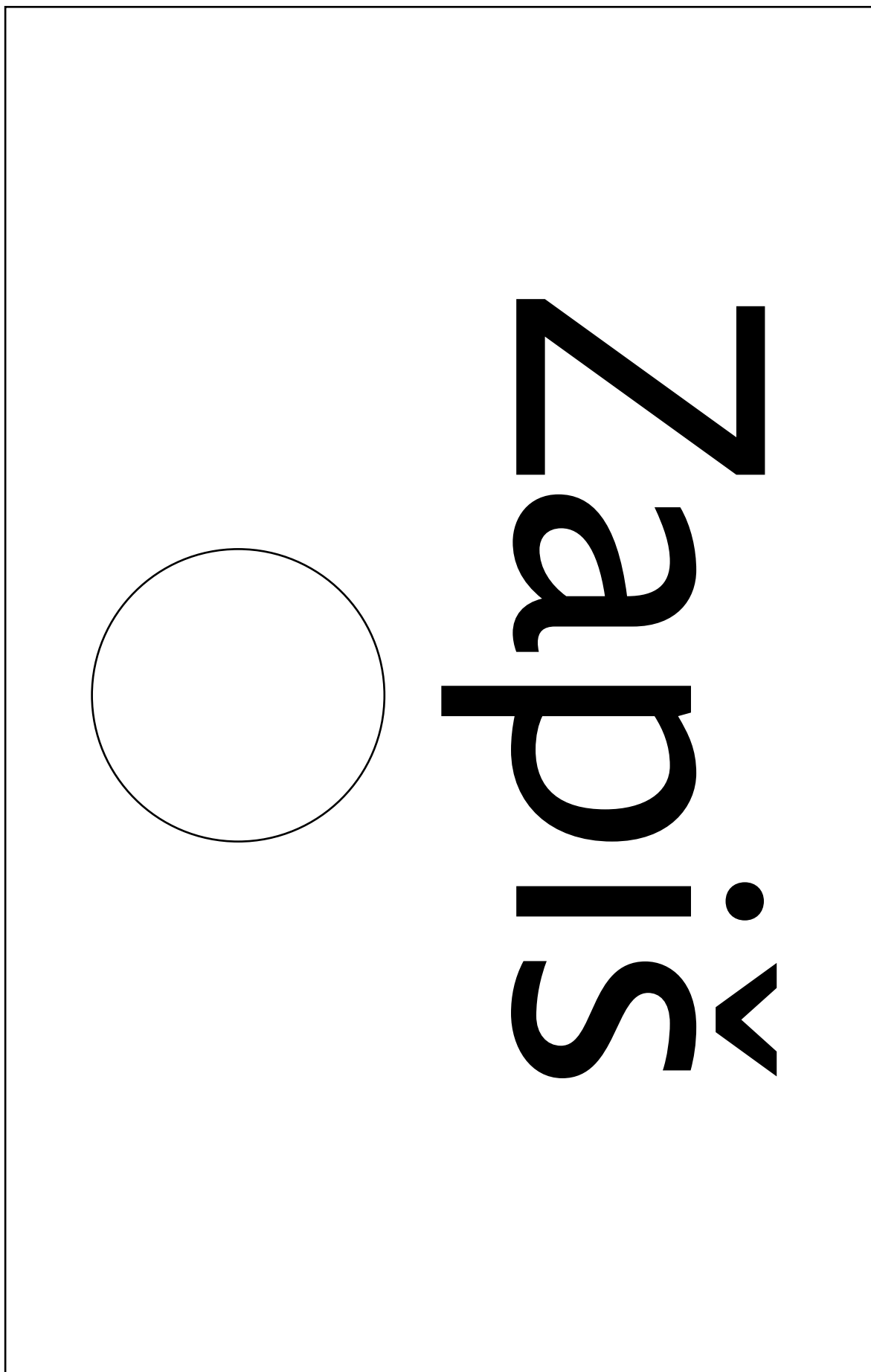


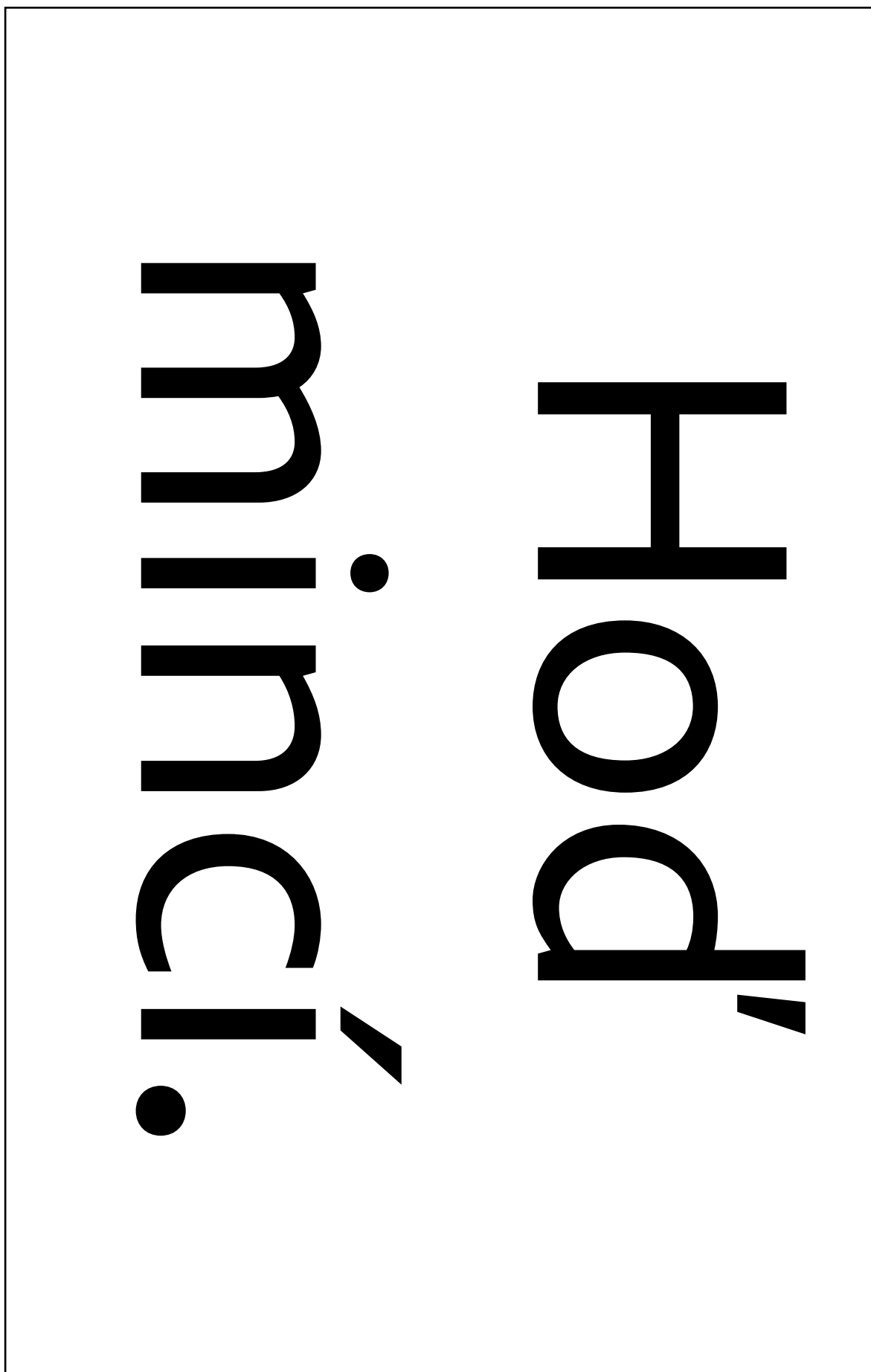


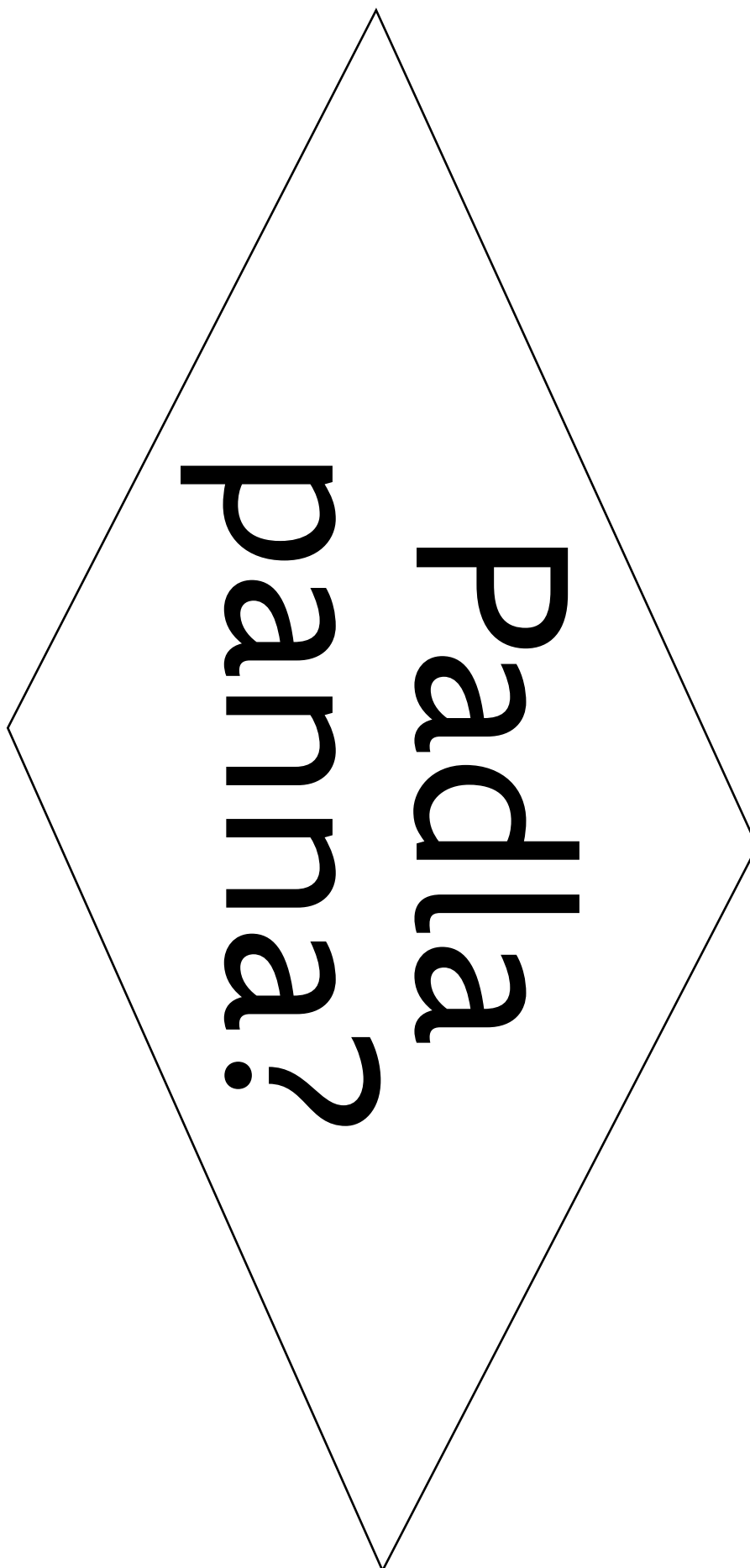


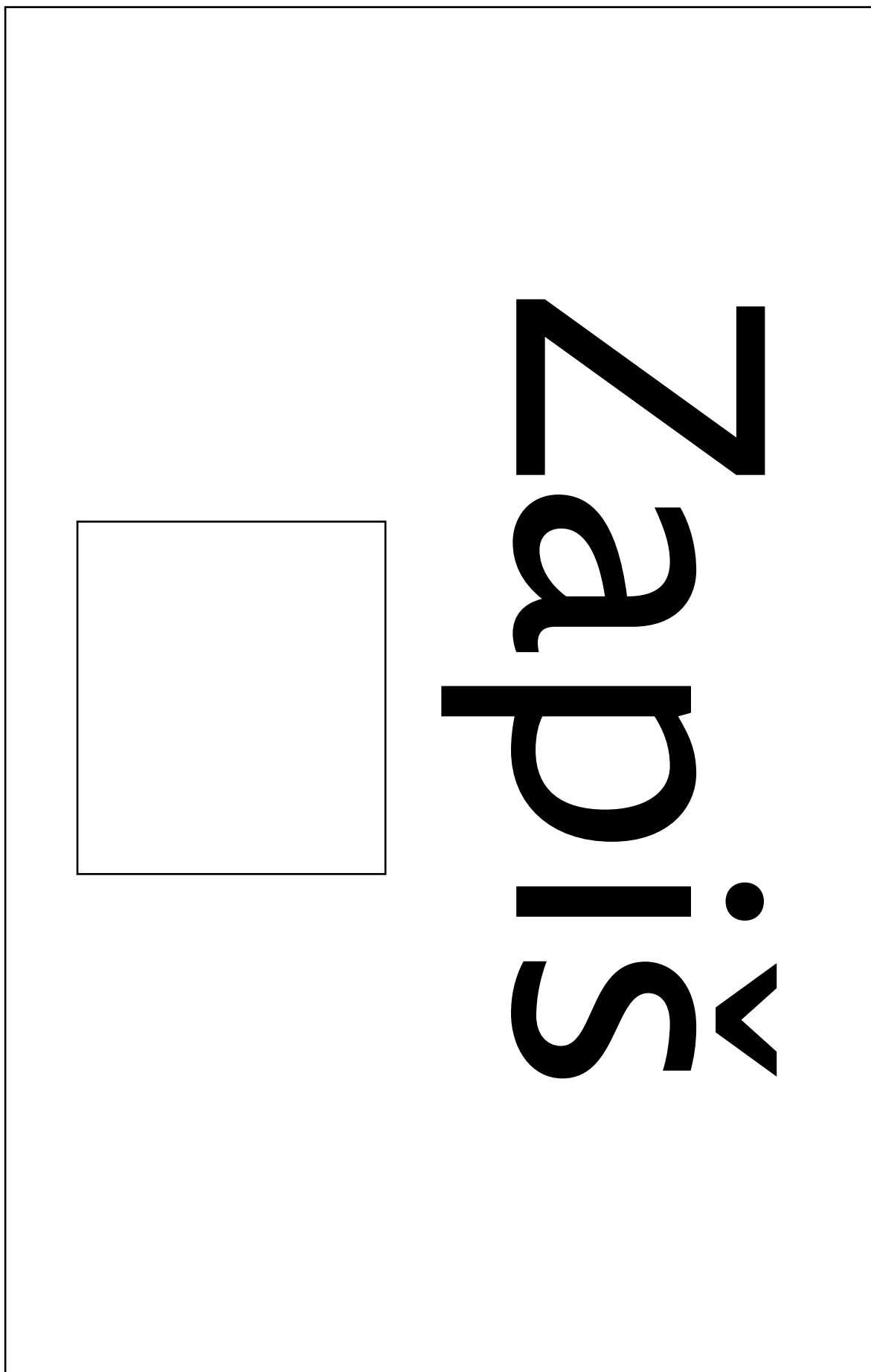


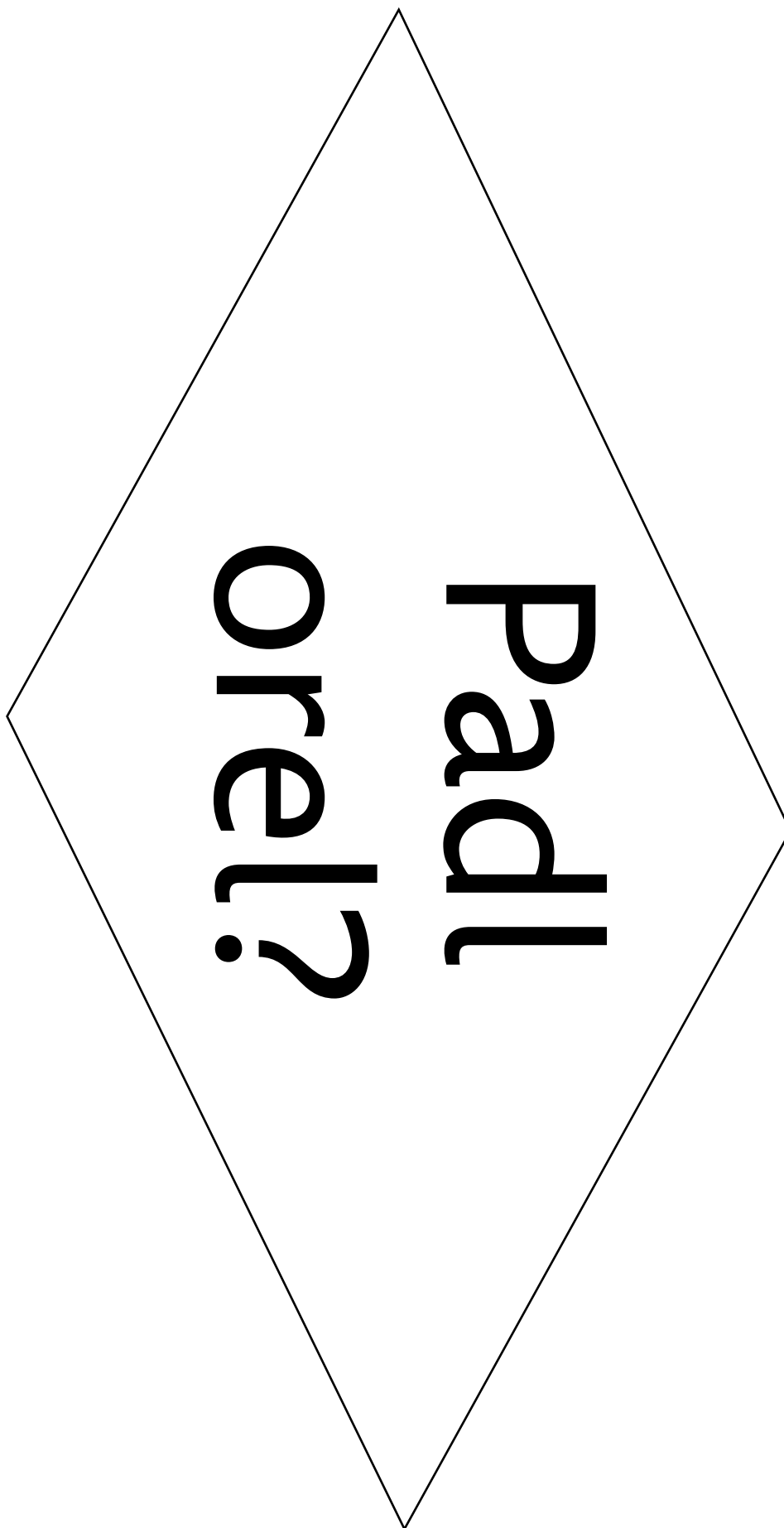


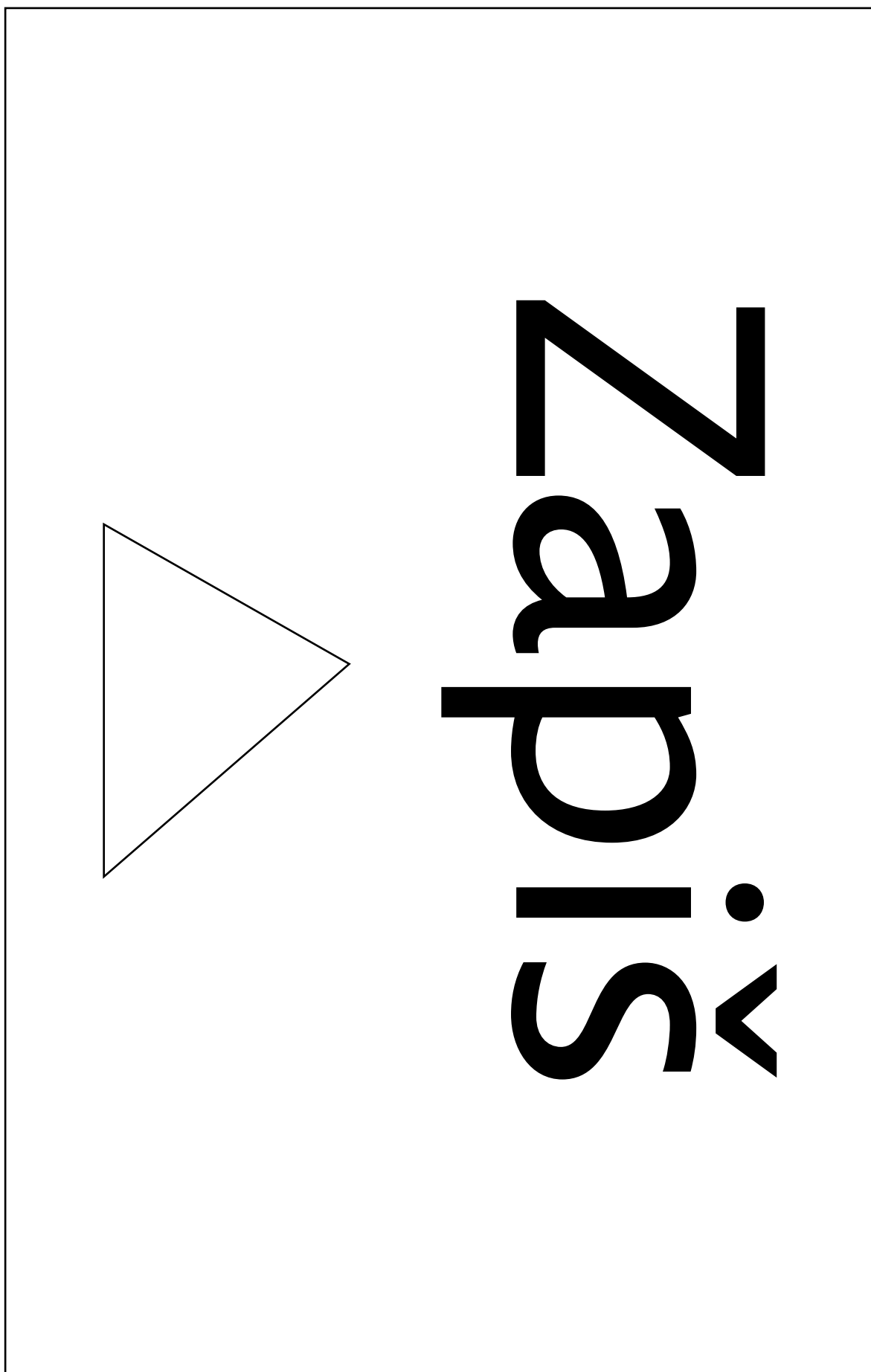


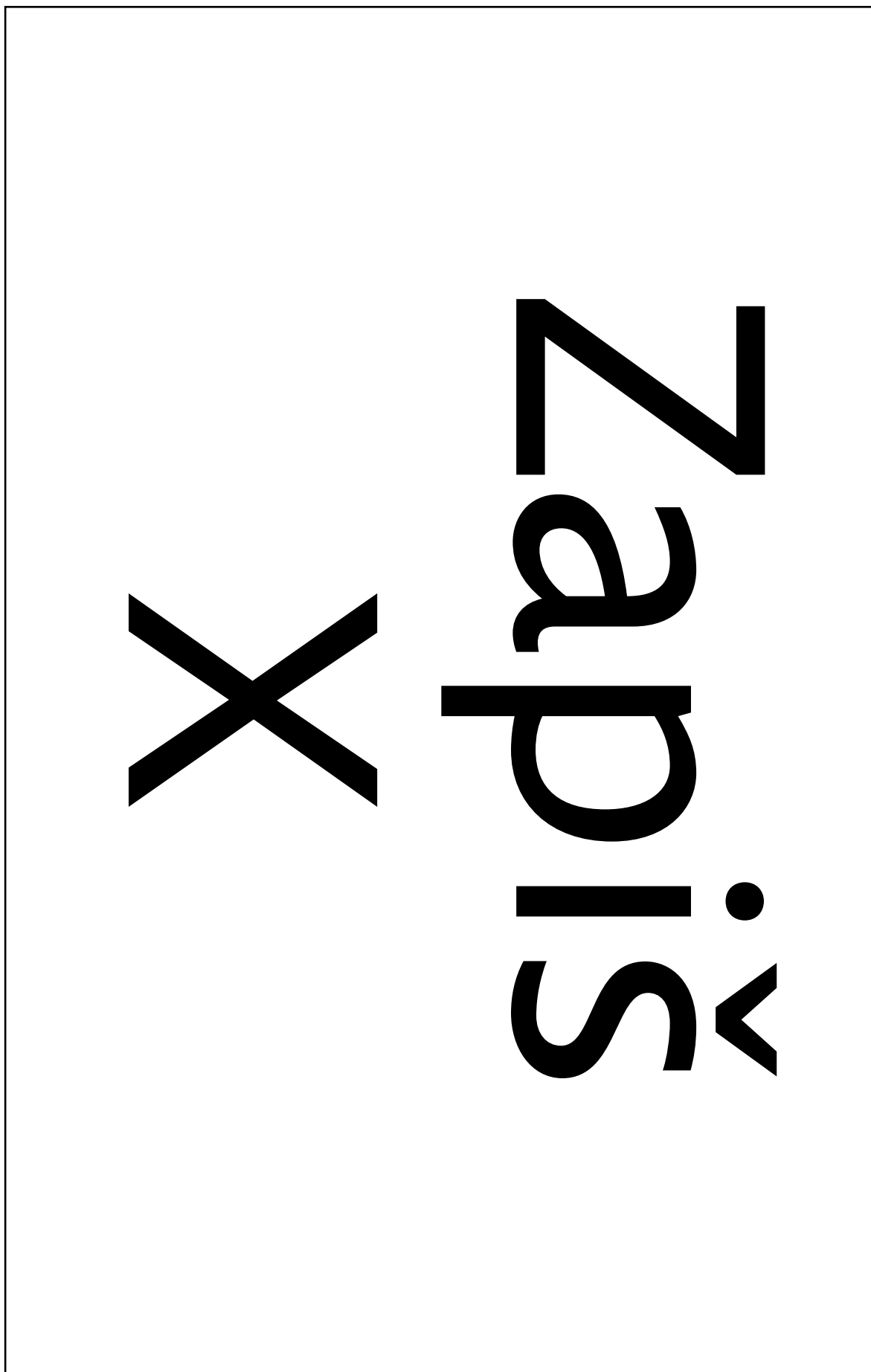


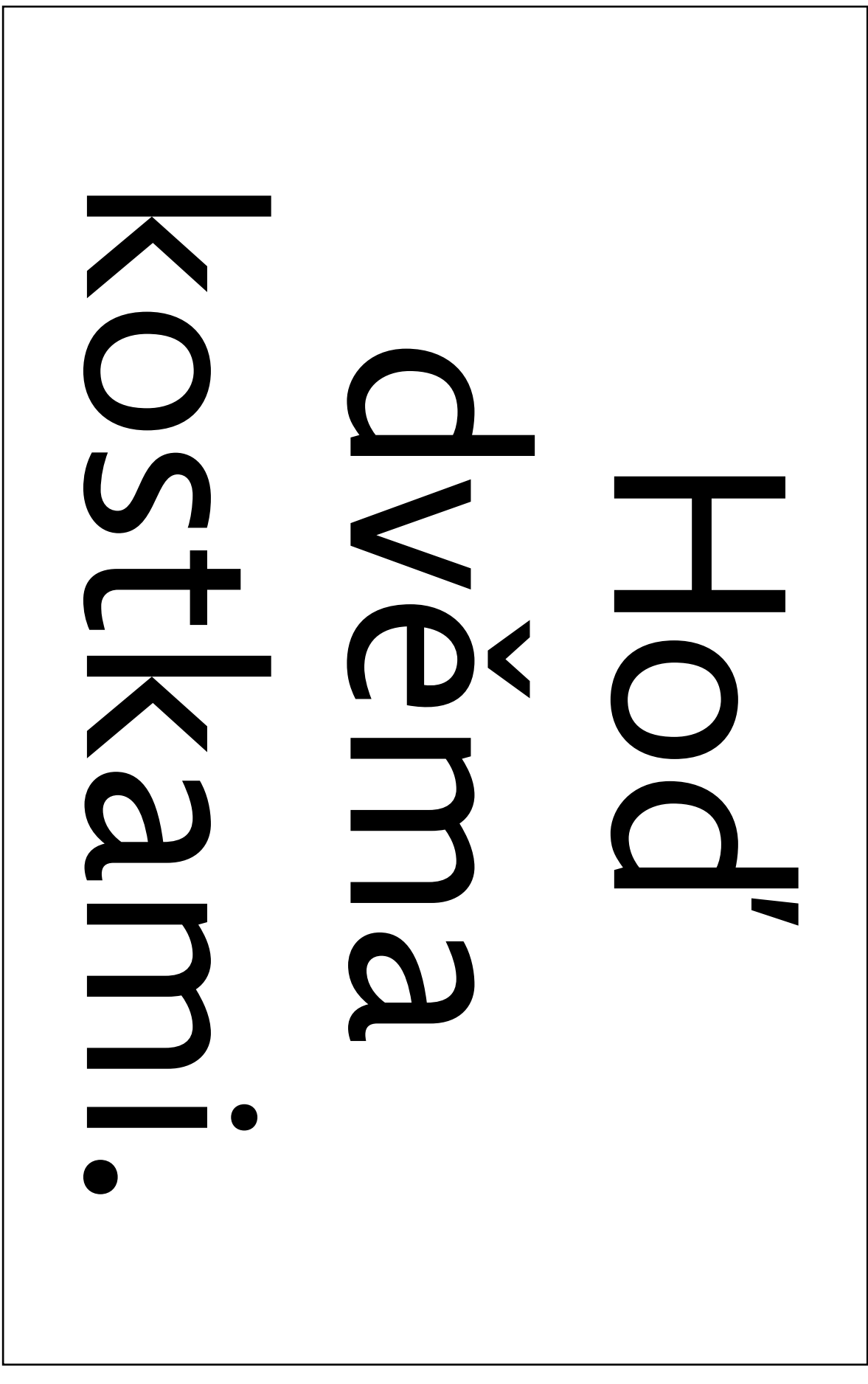


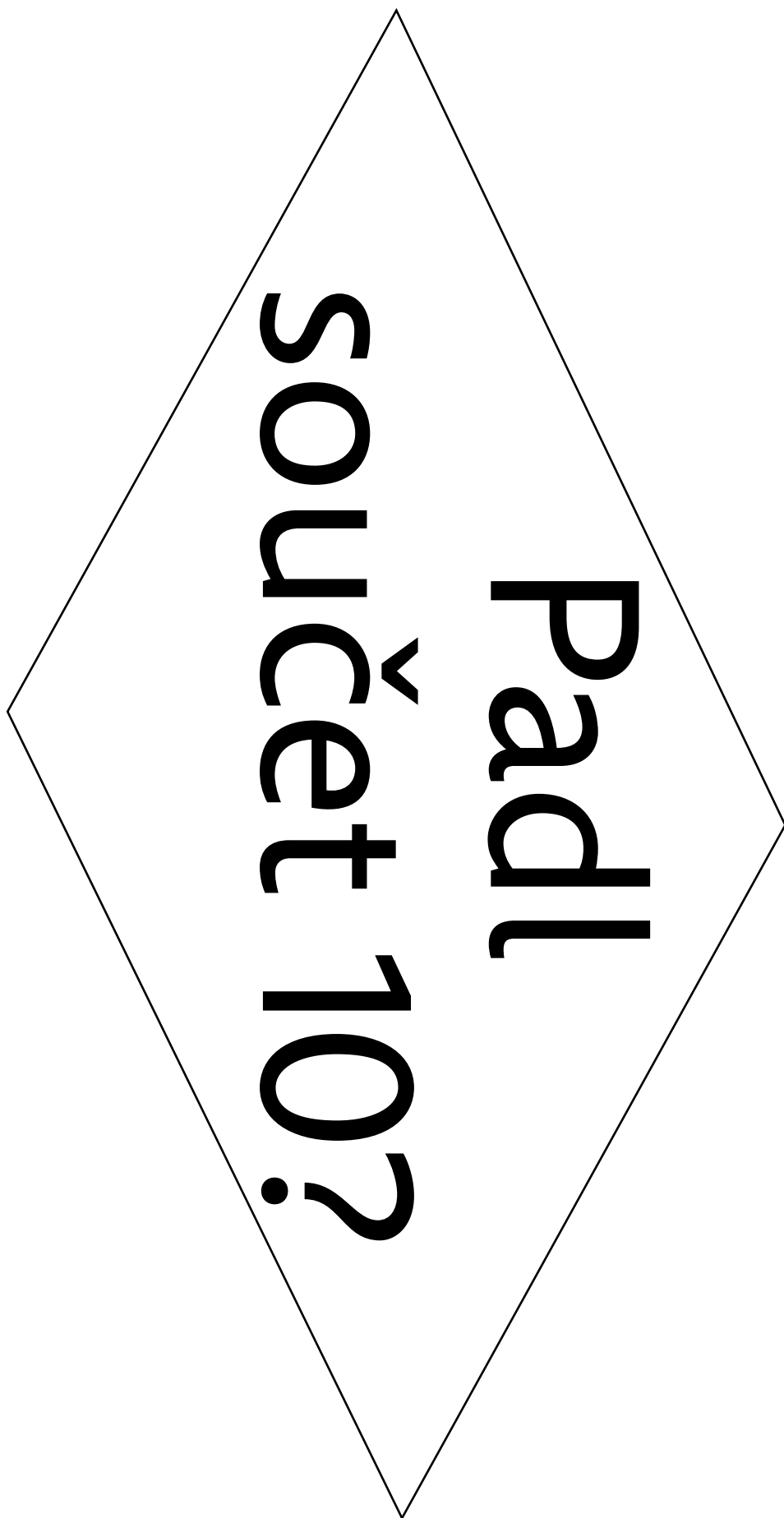








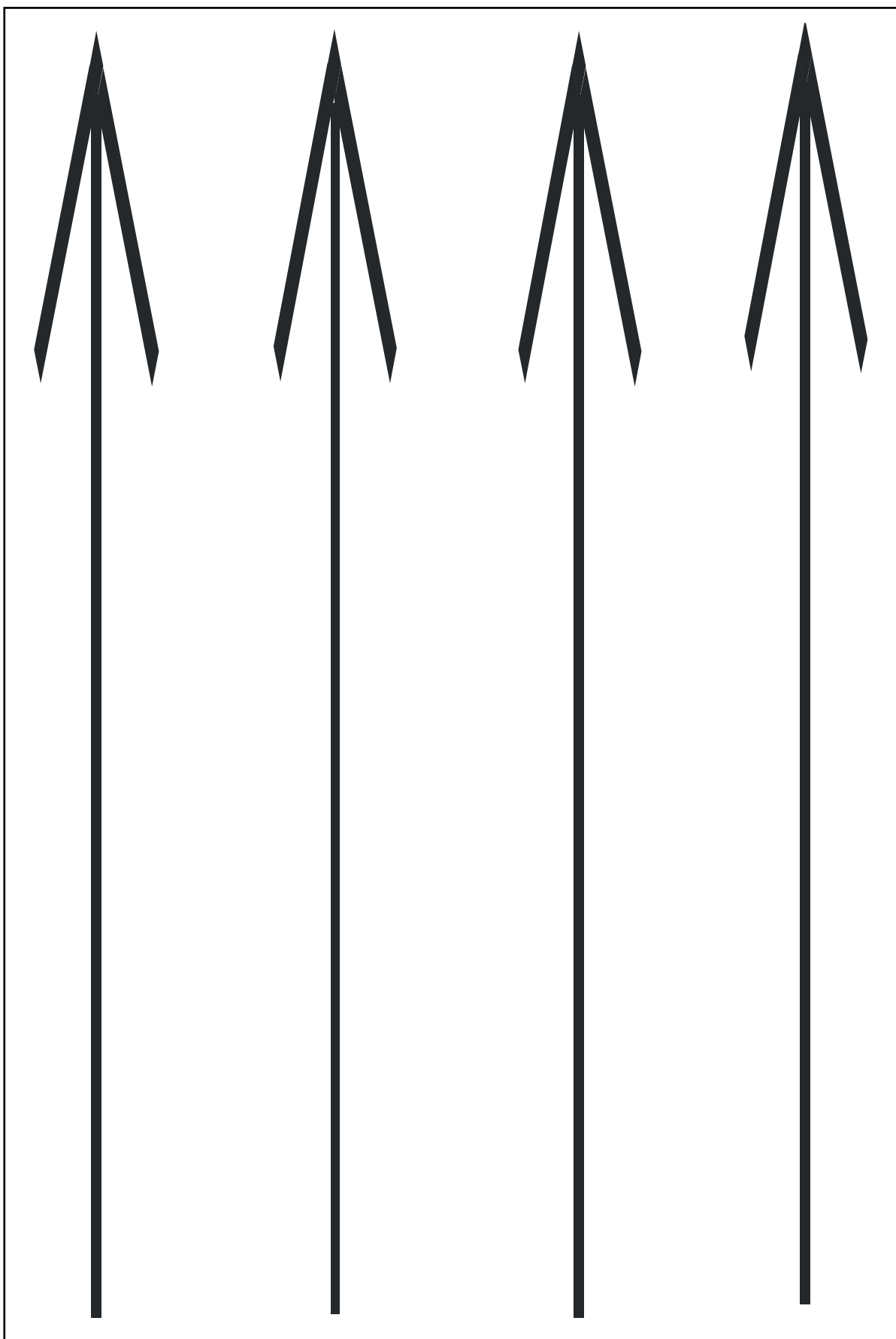


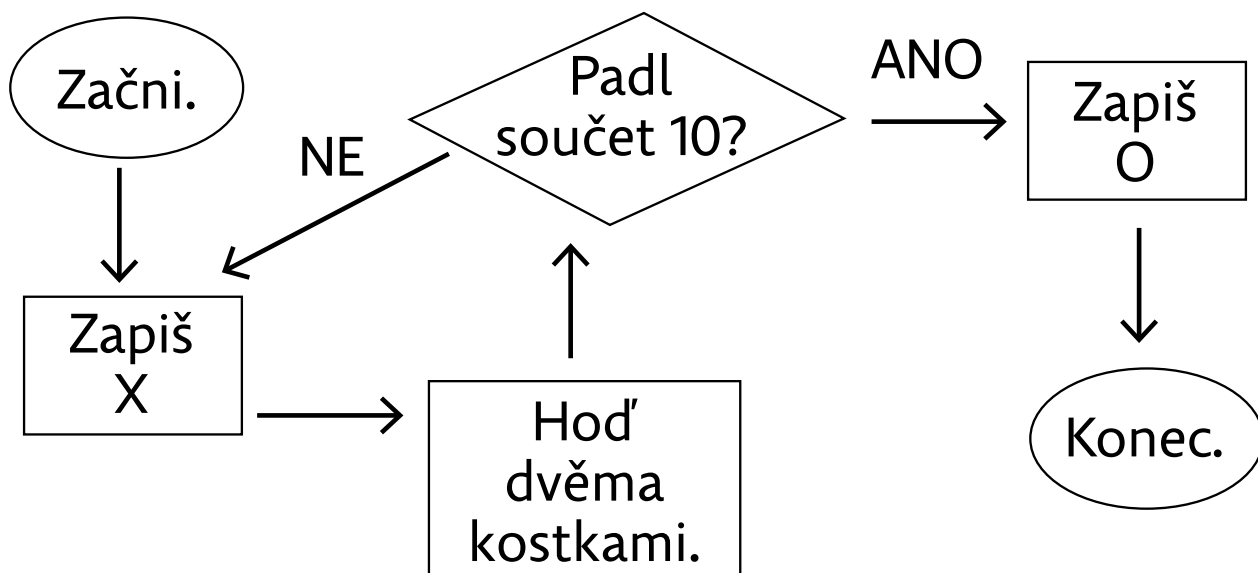
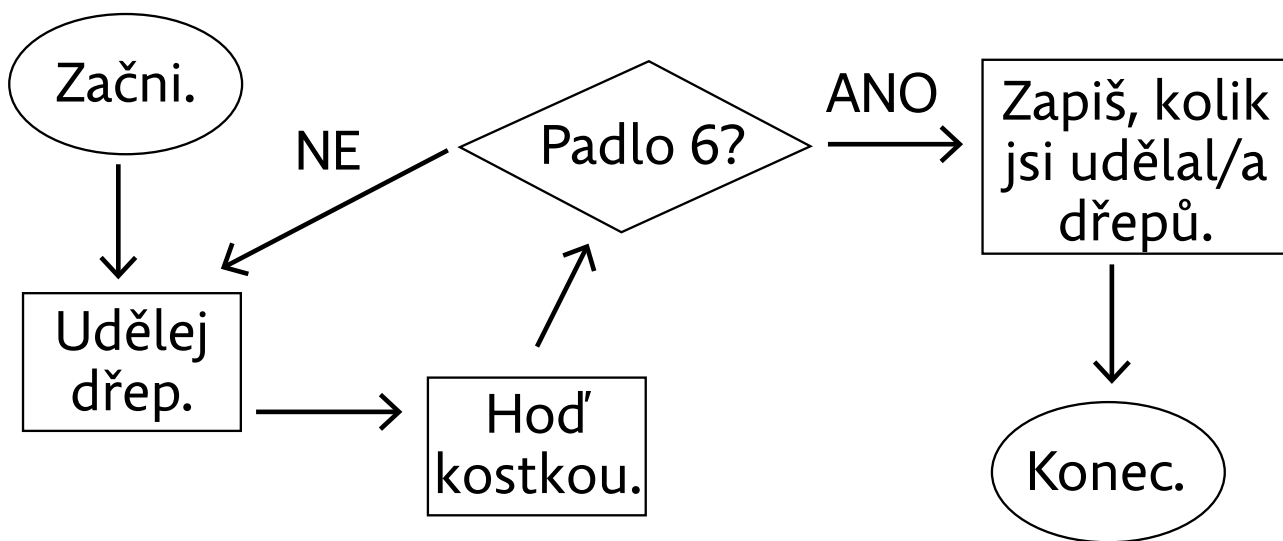


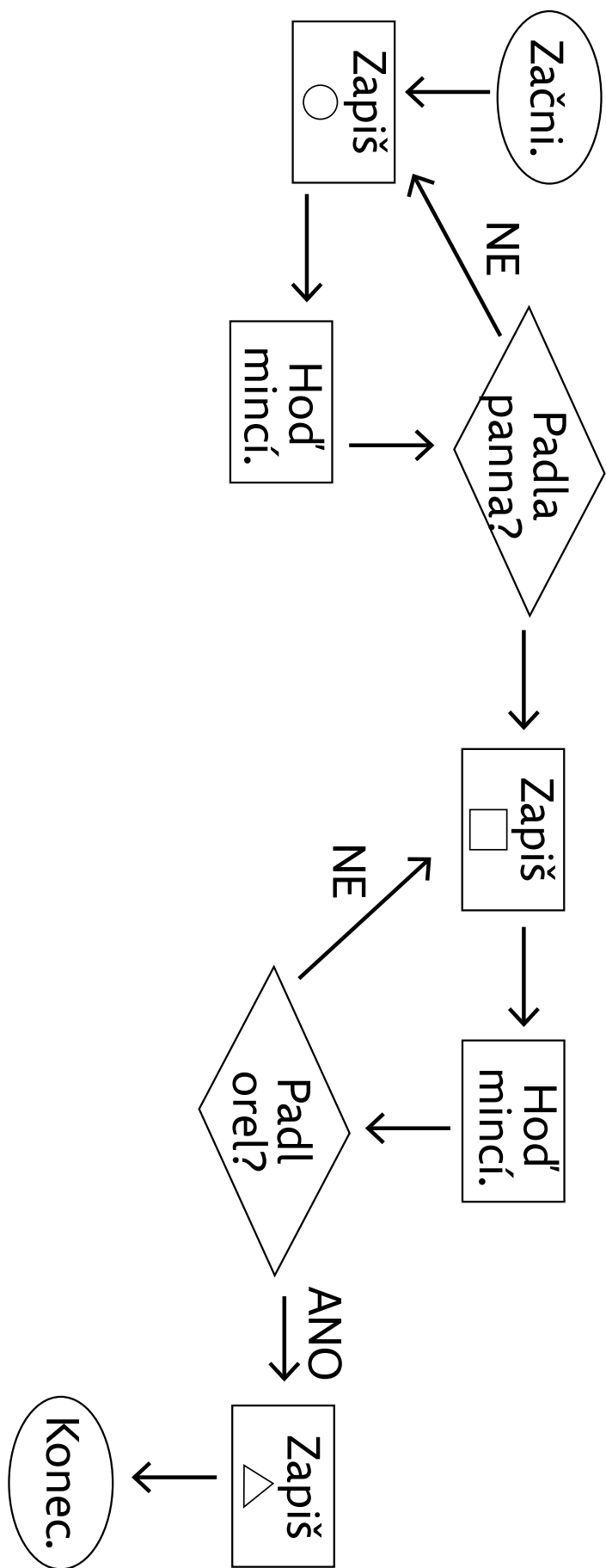


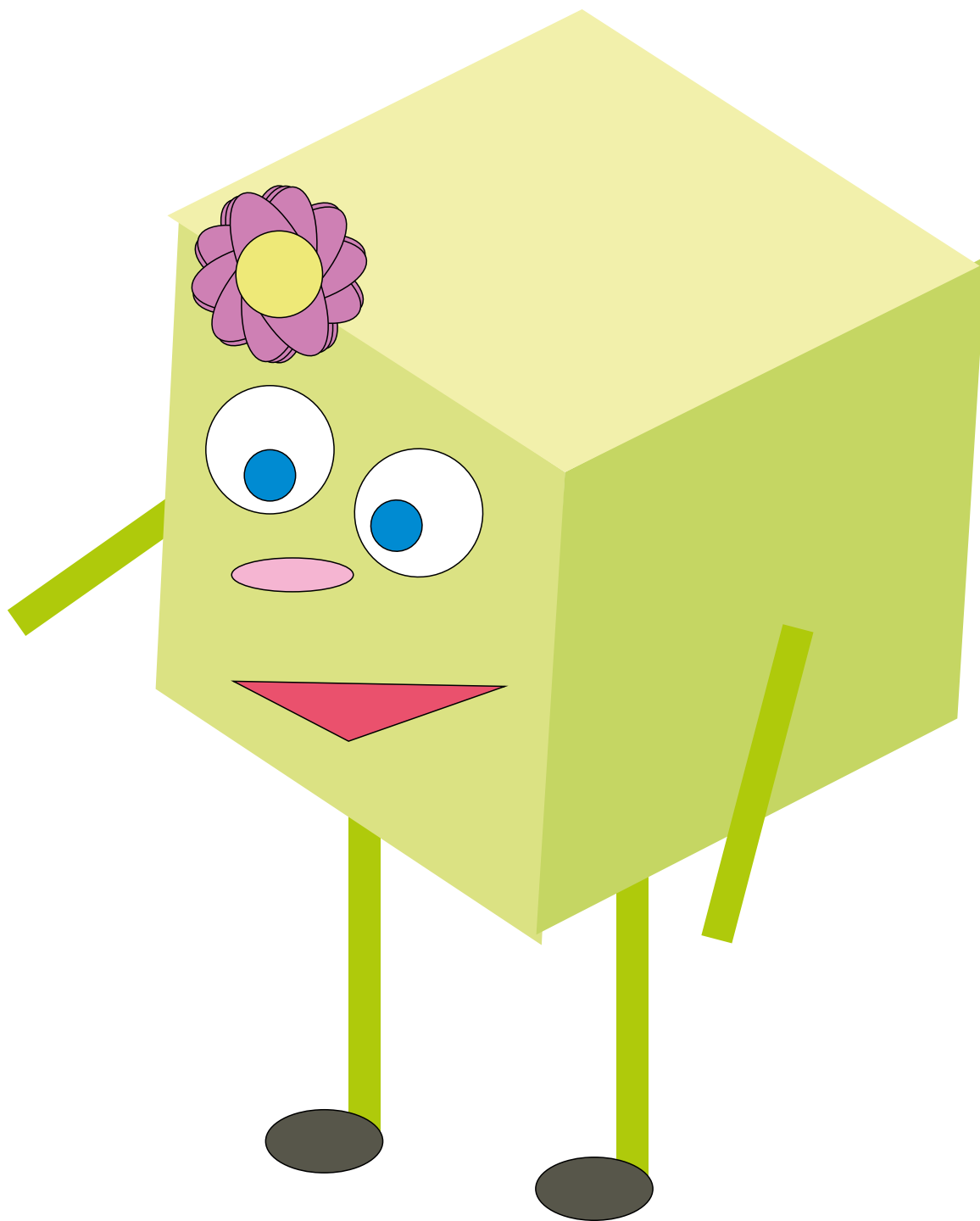
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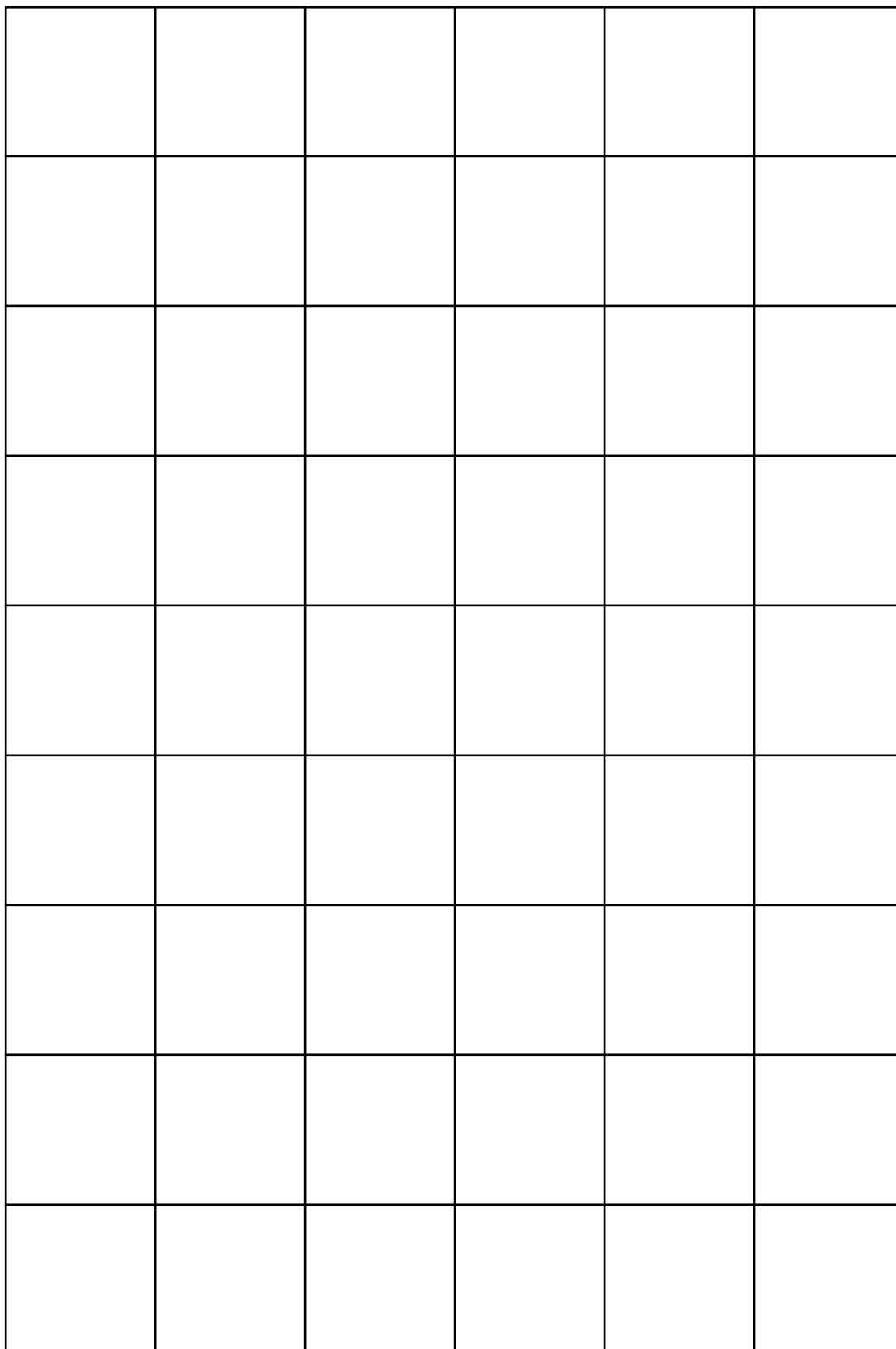
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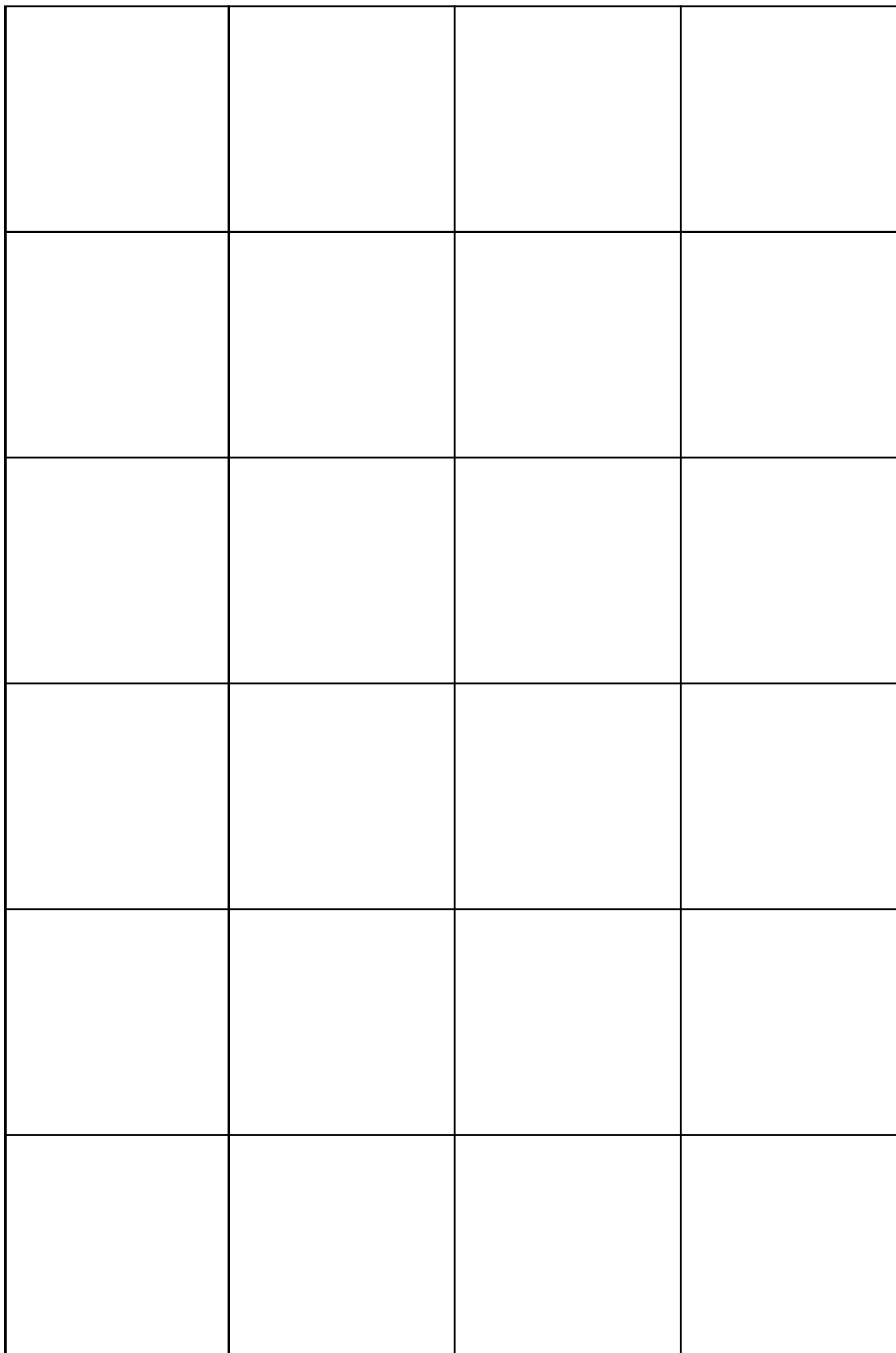




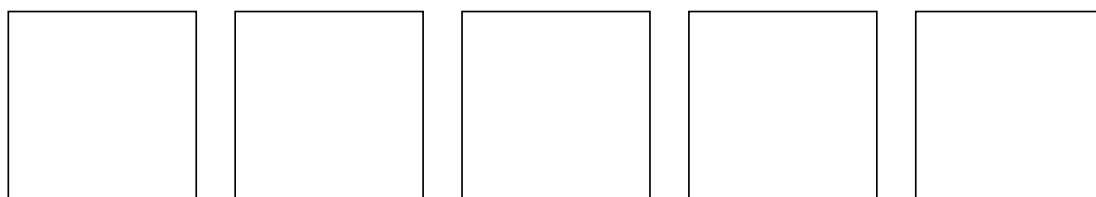
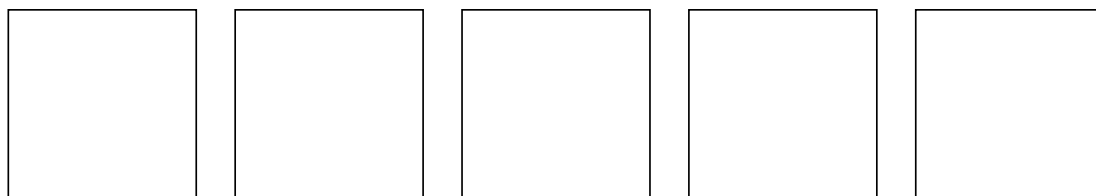
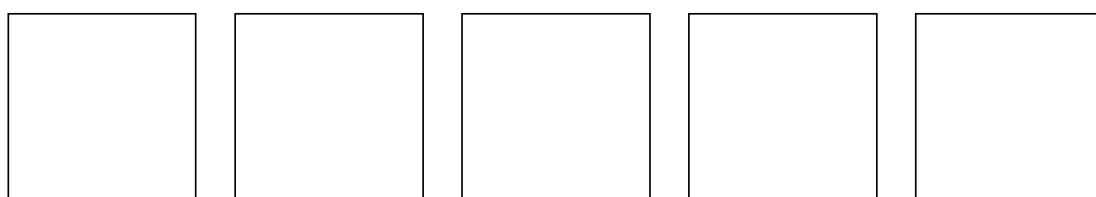
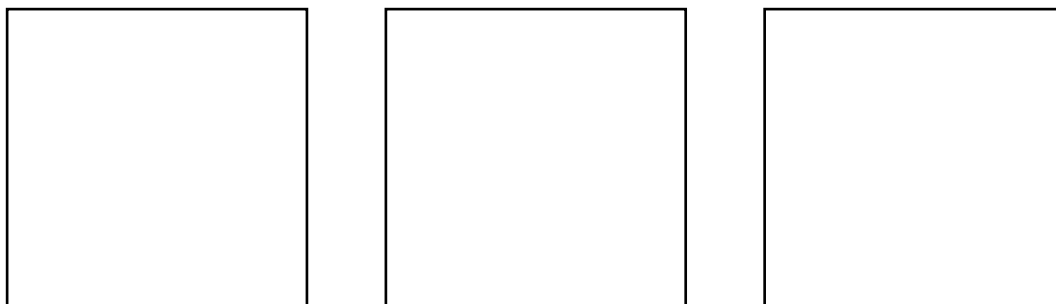
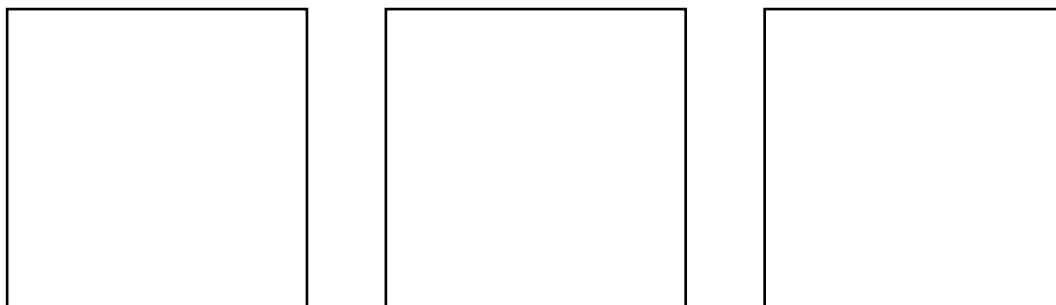
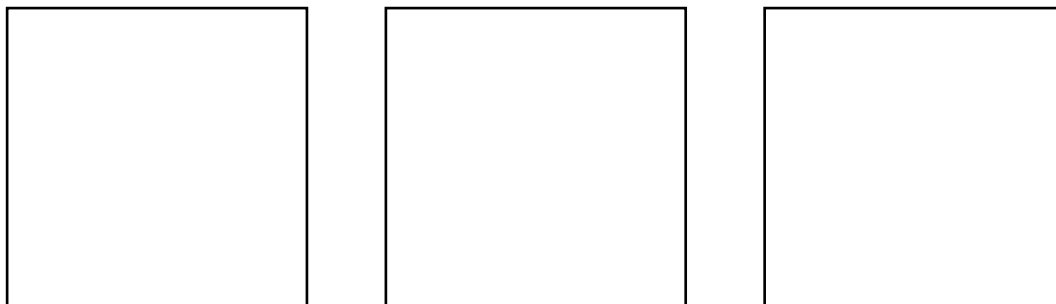




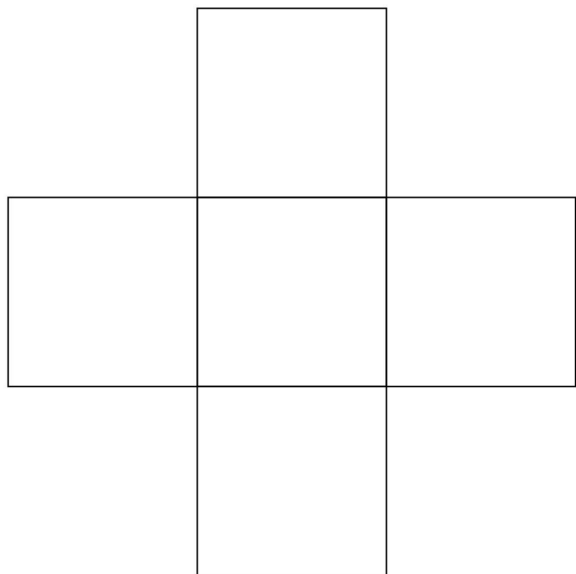




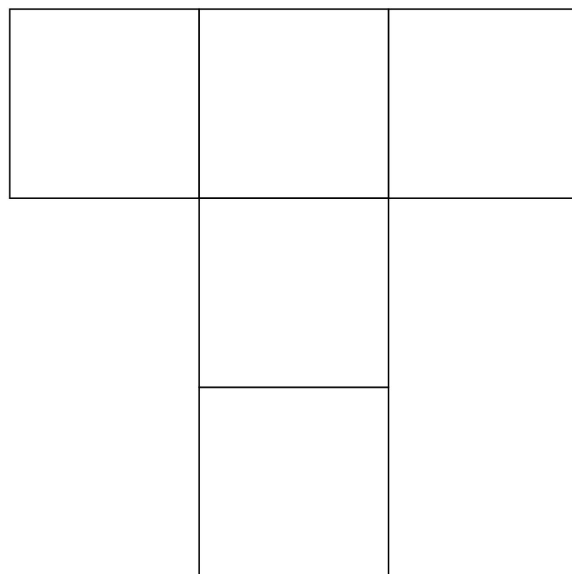
30 Oblékání krychle – Čtverce na přikládání 4 cm a 2,5 cm



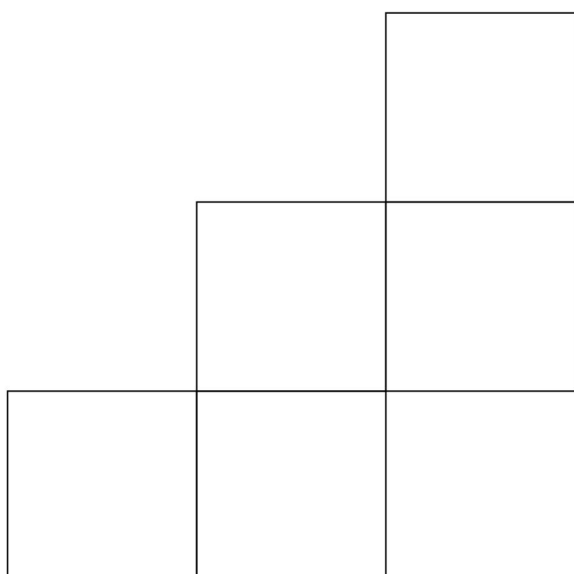
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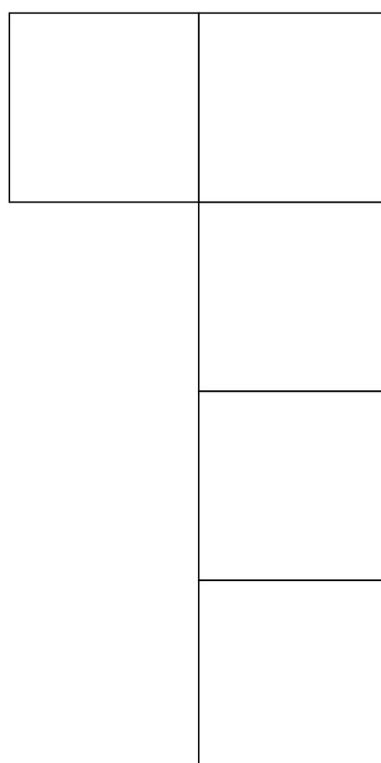
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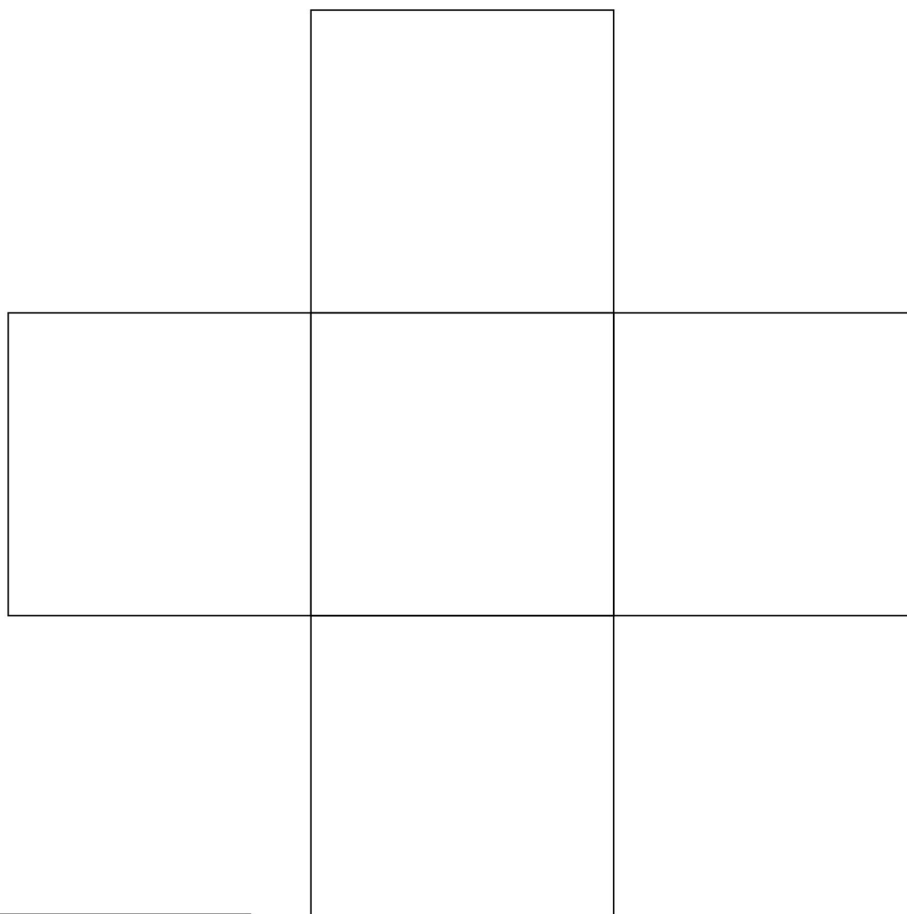
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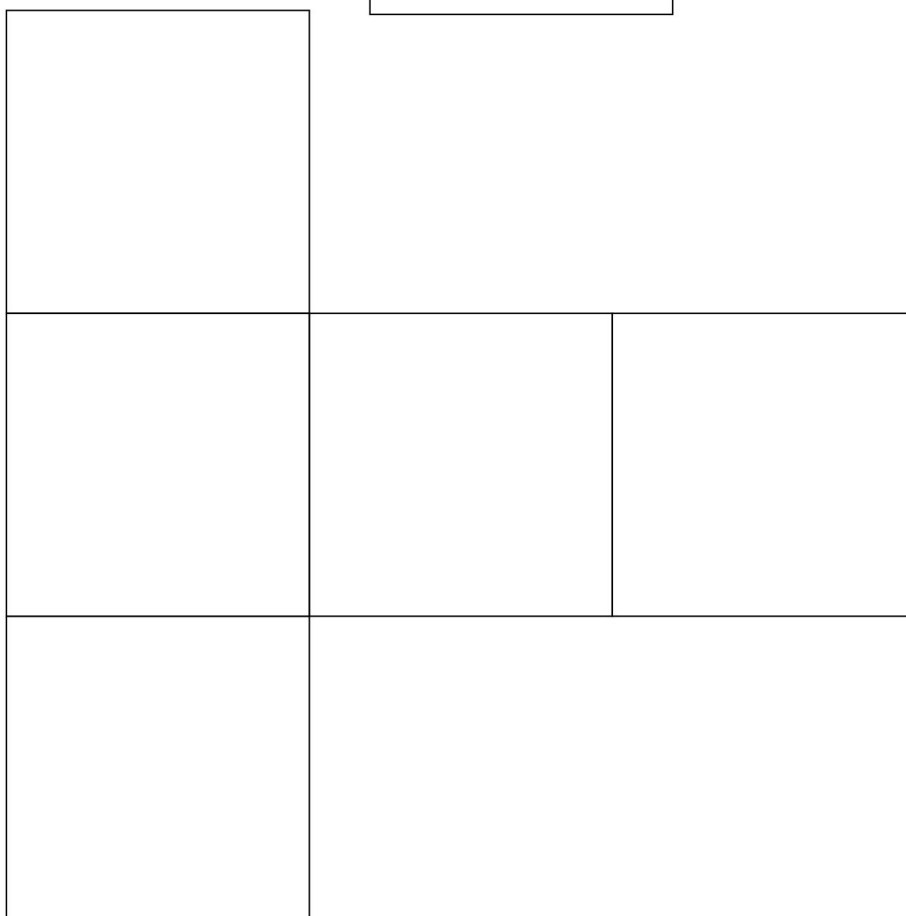
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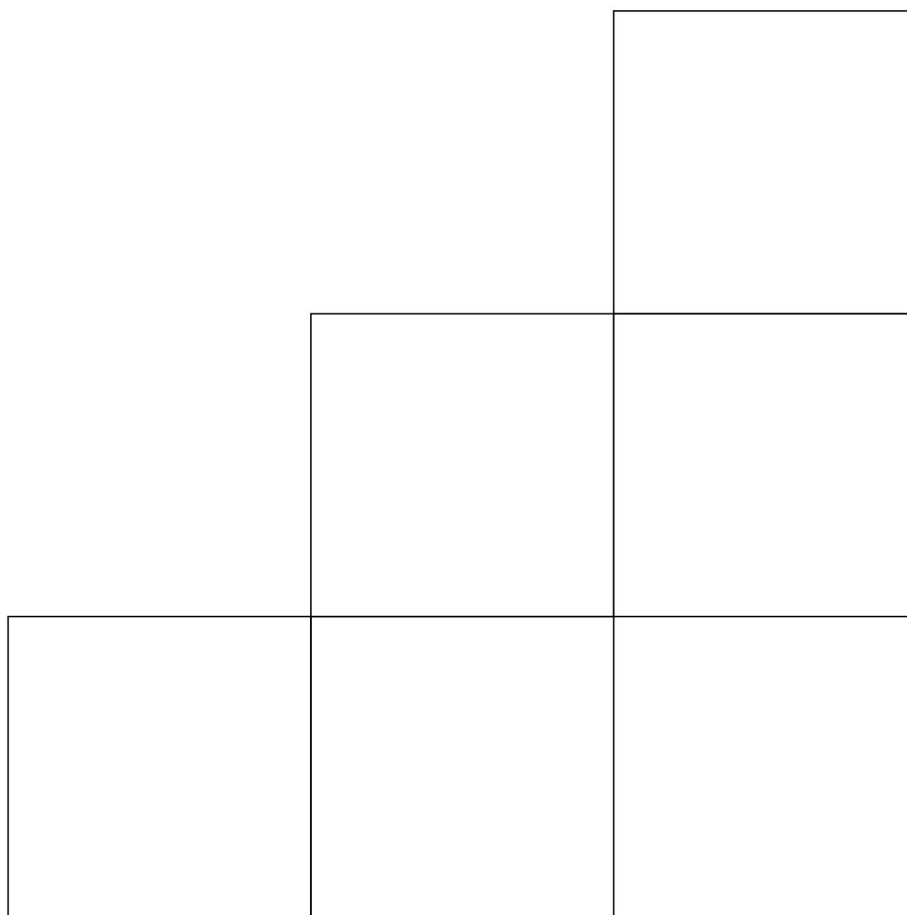
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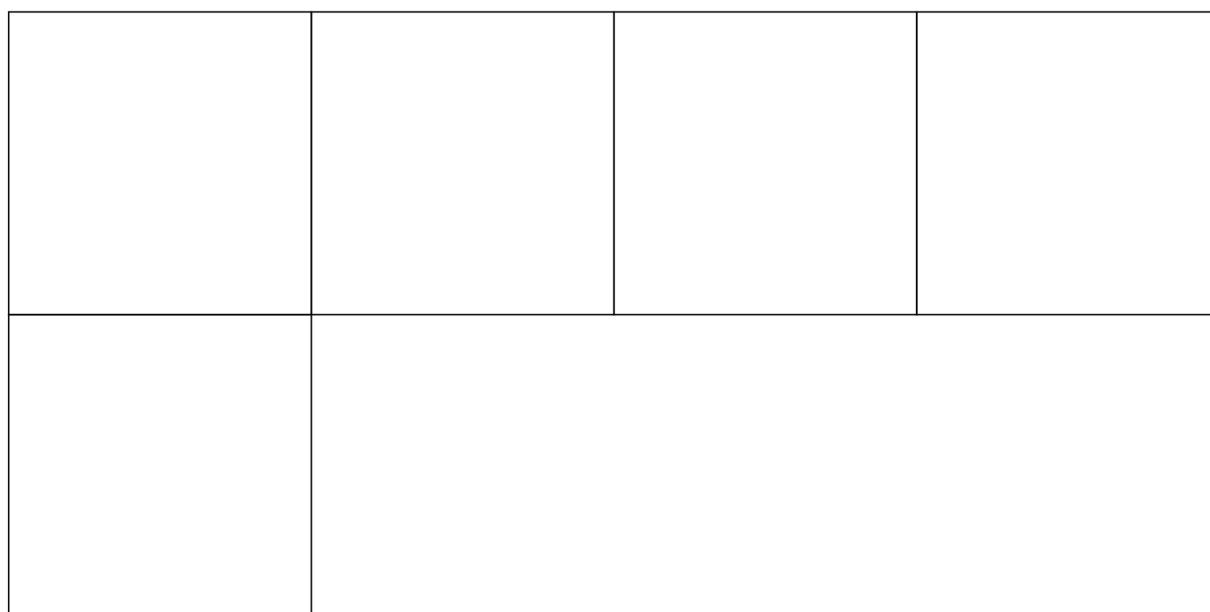
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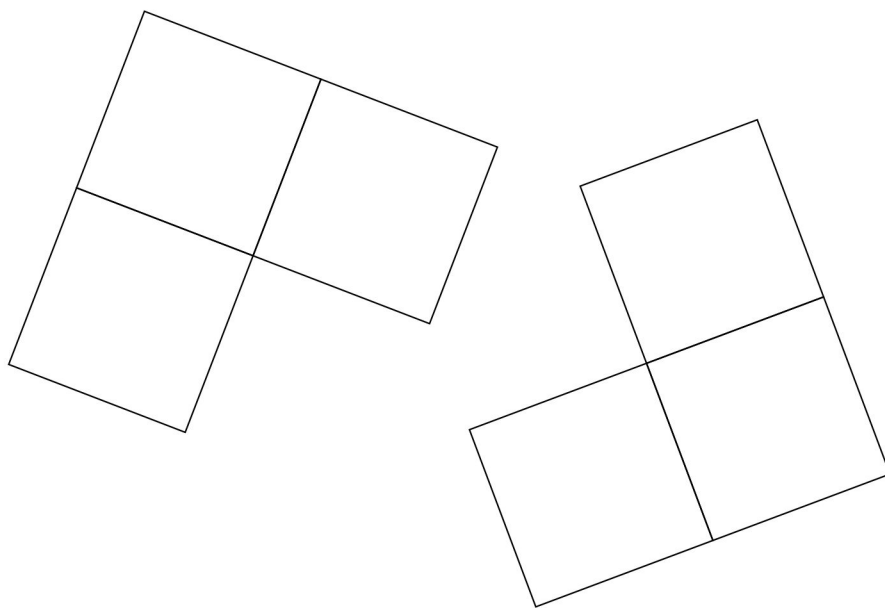
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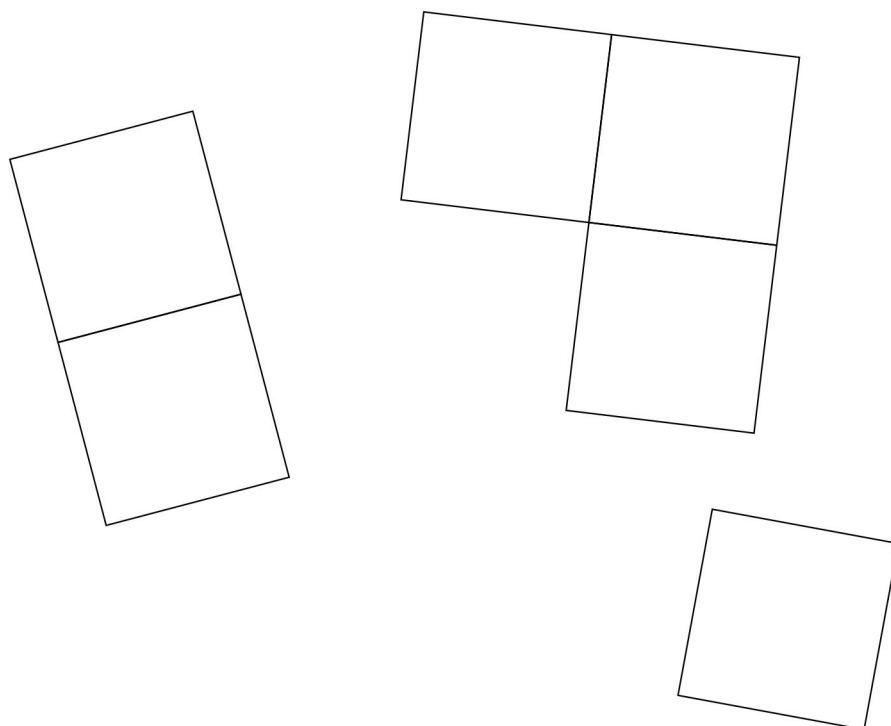
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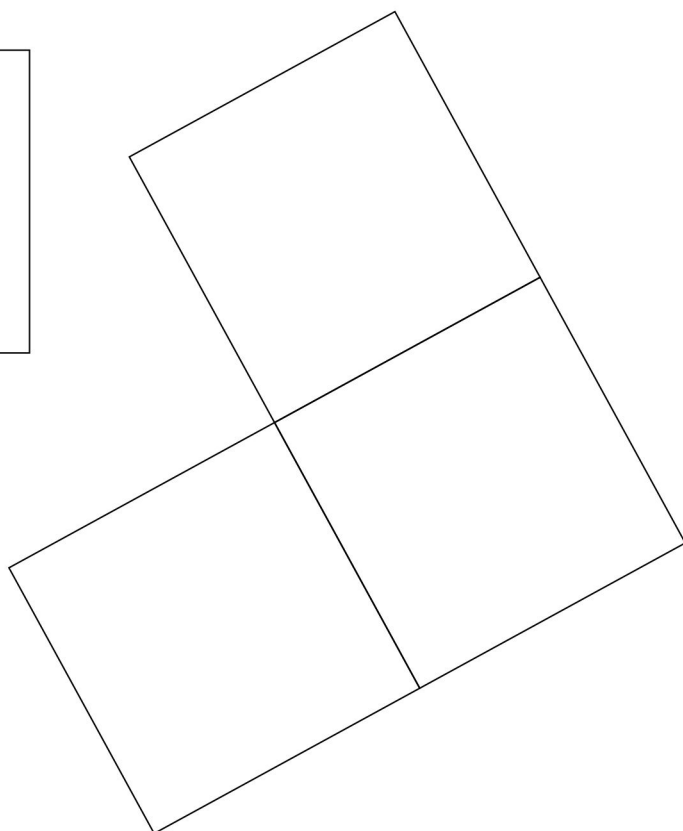
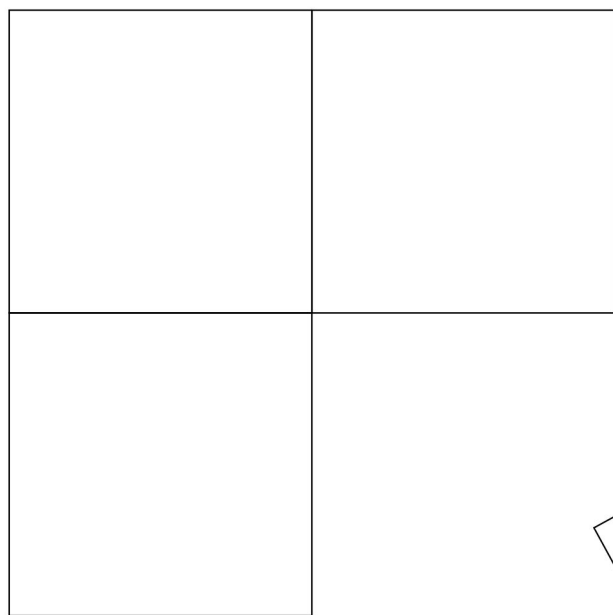
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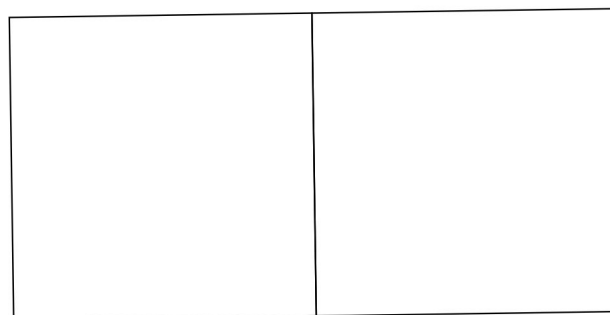
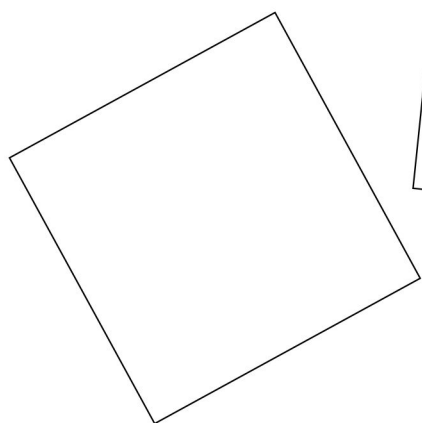
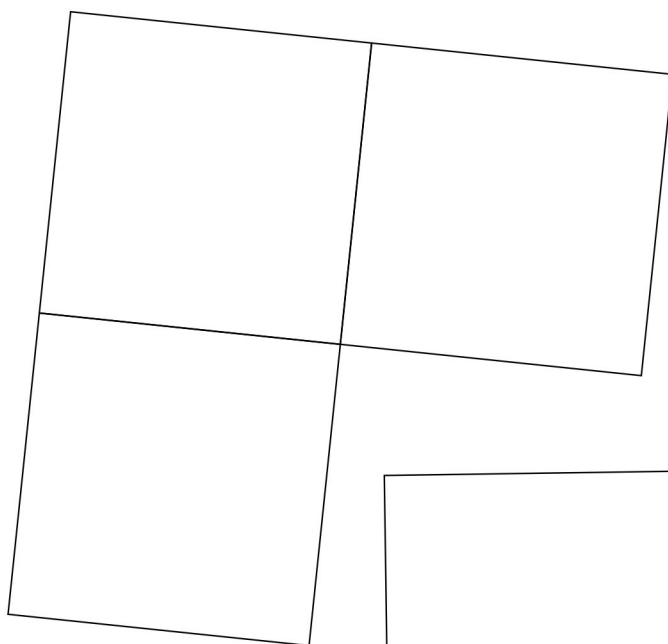
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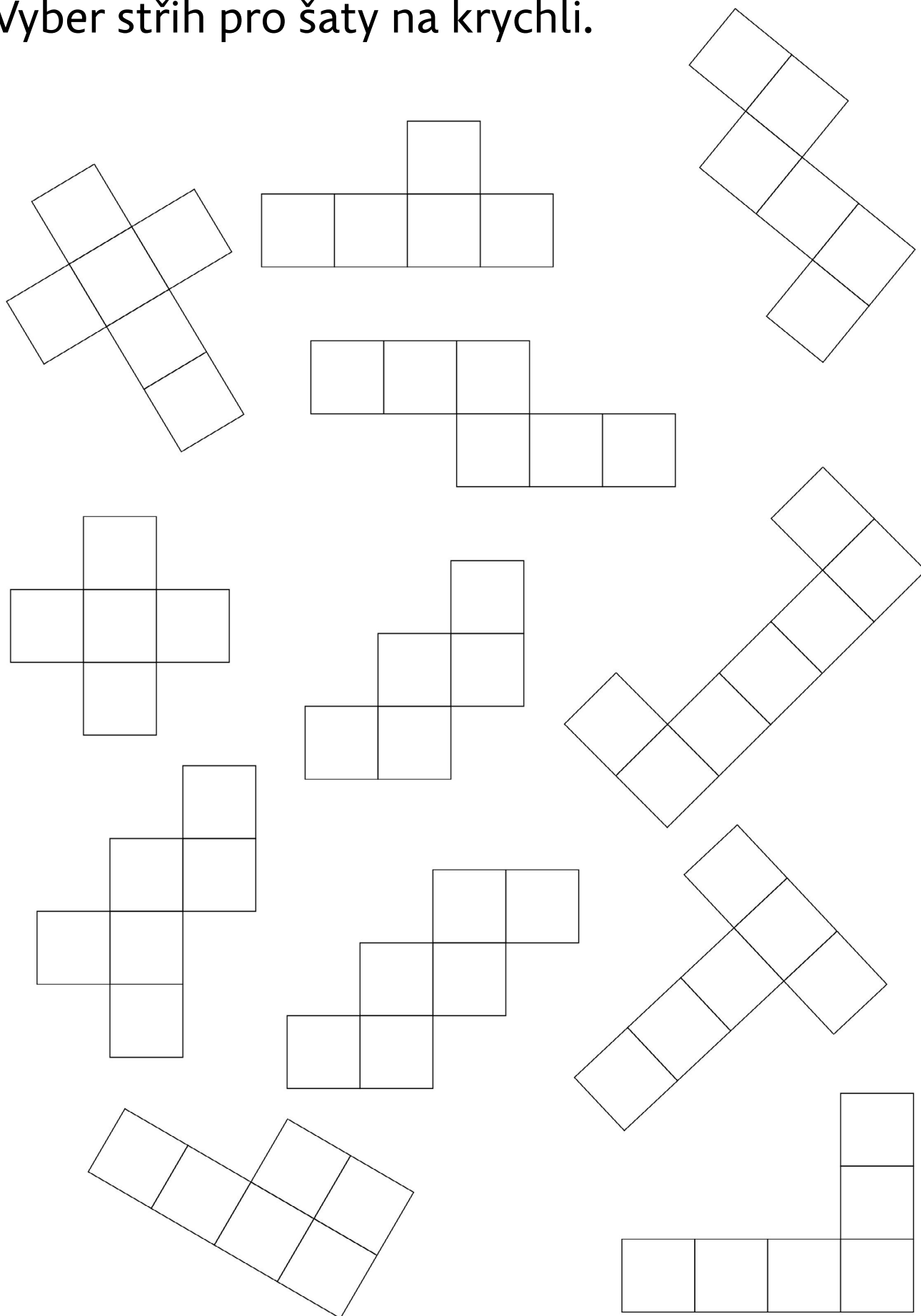
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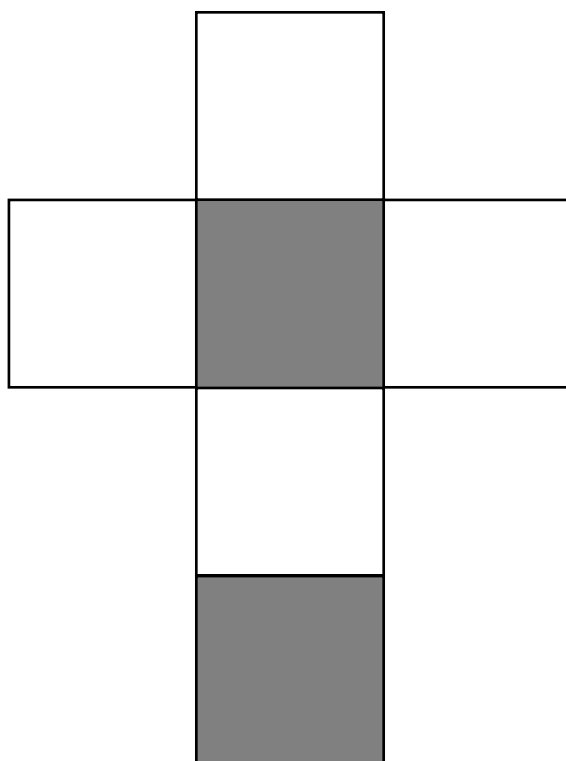
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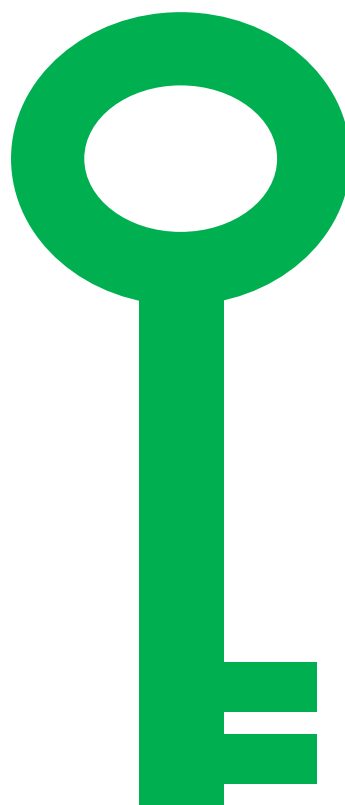
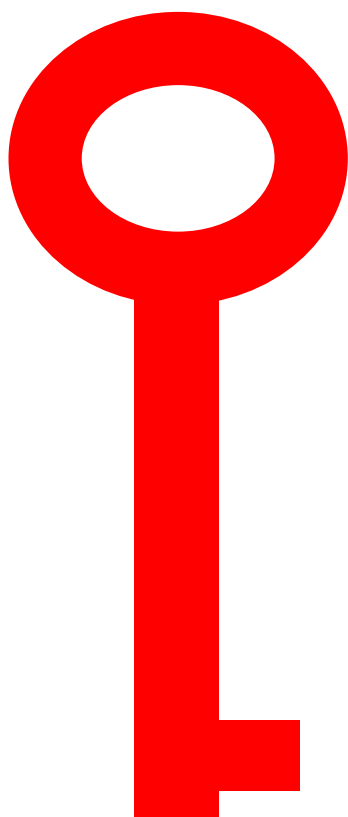
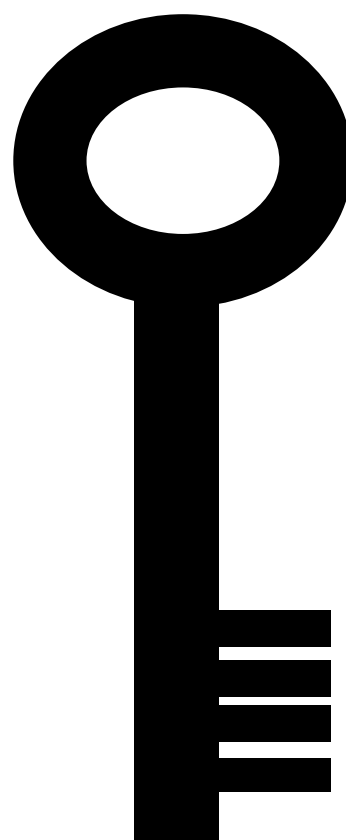
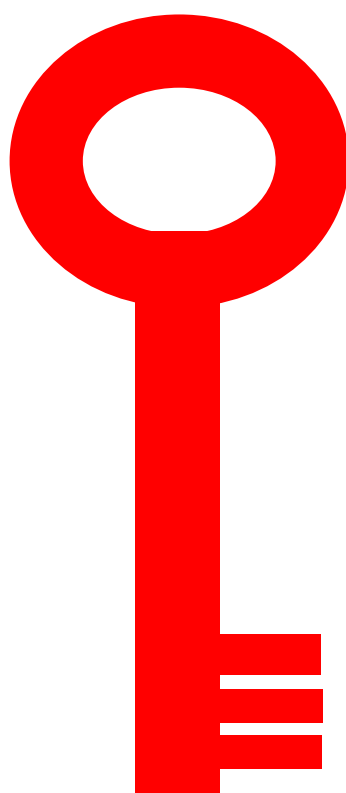


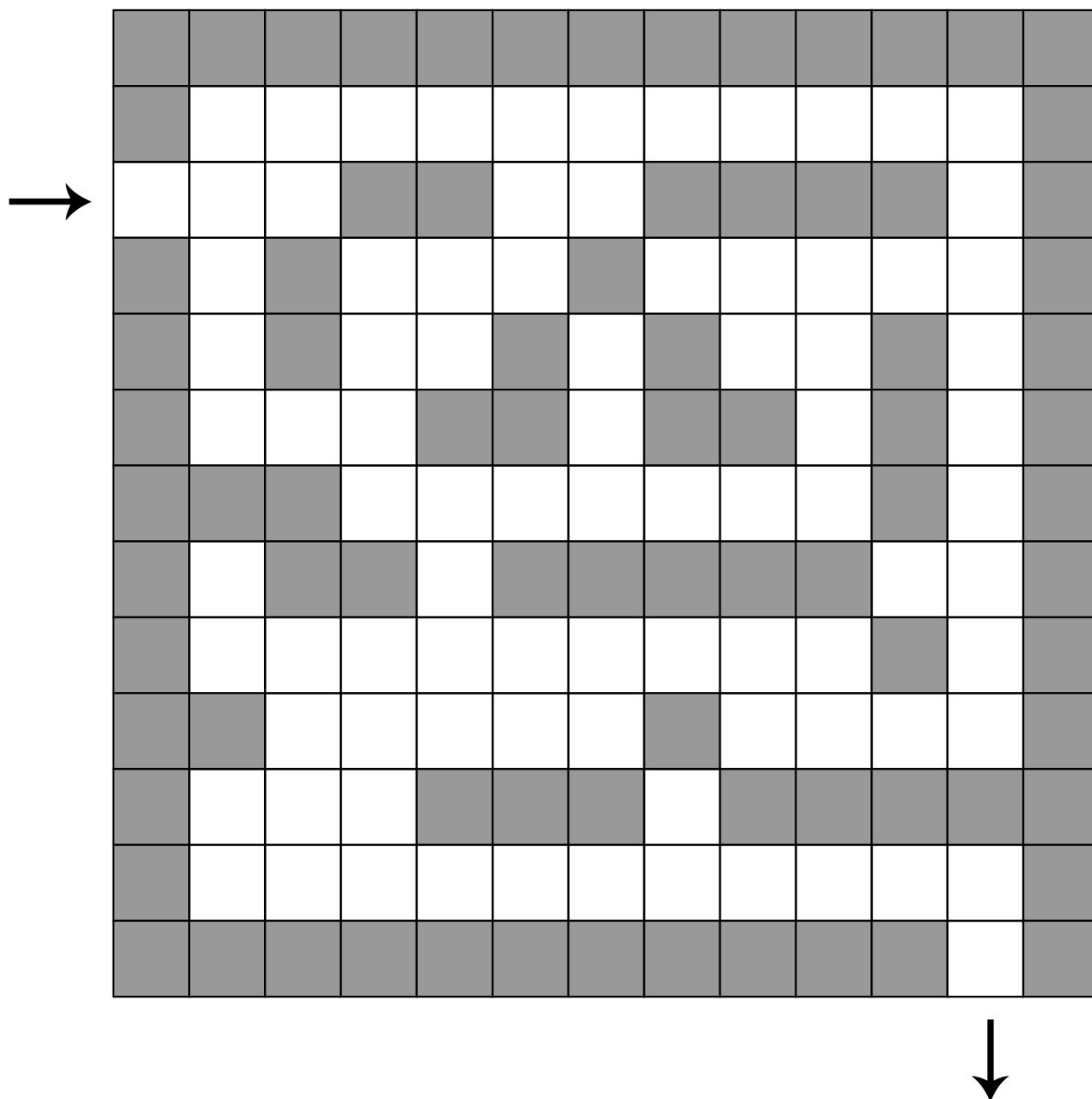
Vyber střiř pro řaty na krychli.

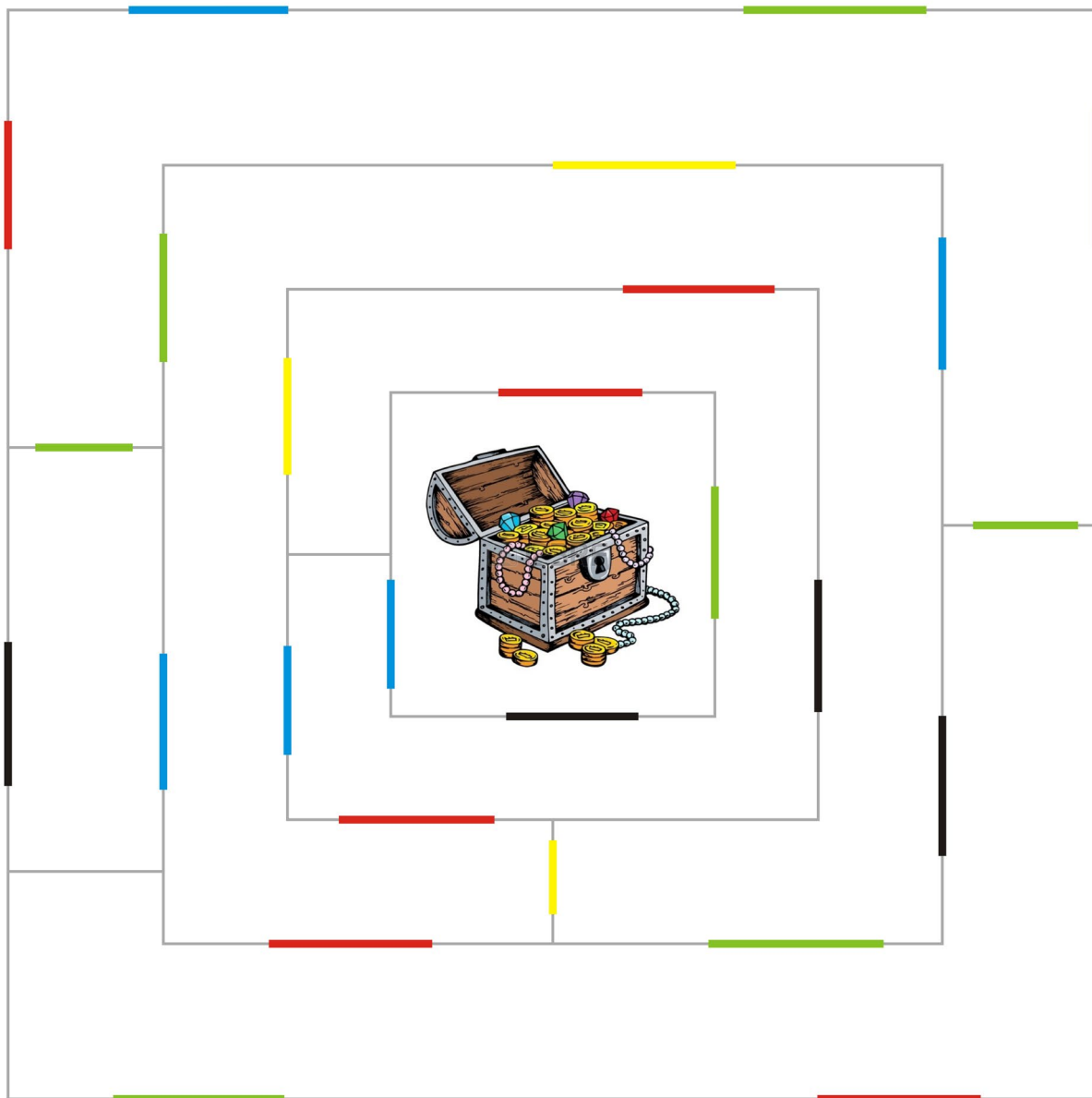


Na obrázku je stříh na šaty pro krychli. Dvě protější stěny jsou obarveny na šedo. Vybarvi další dvě protější stěny modře a zbývající dvě žlutě.

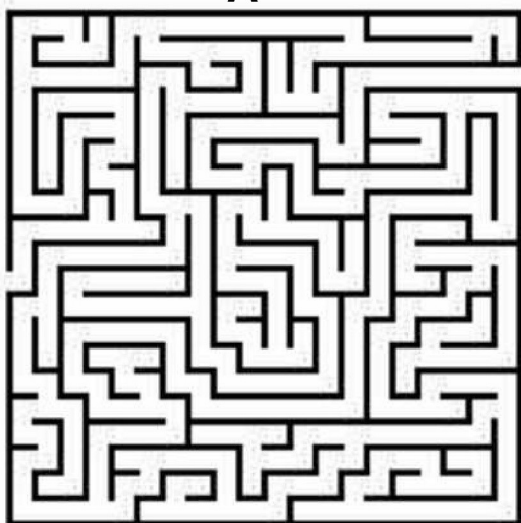




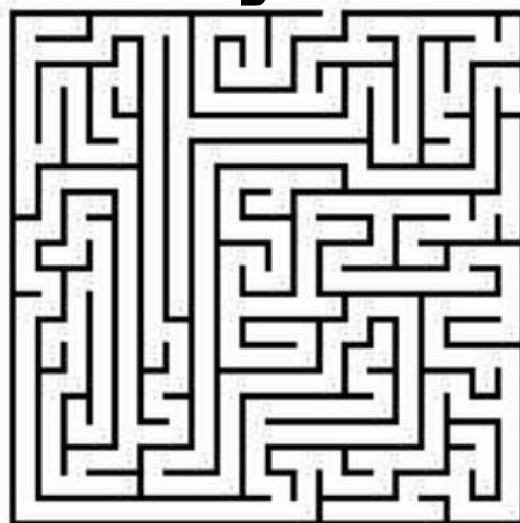




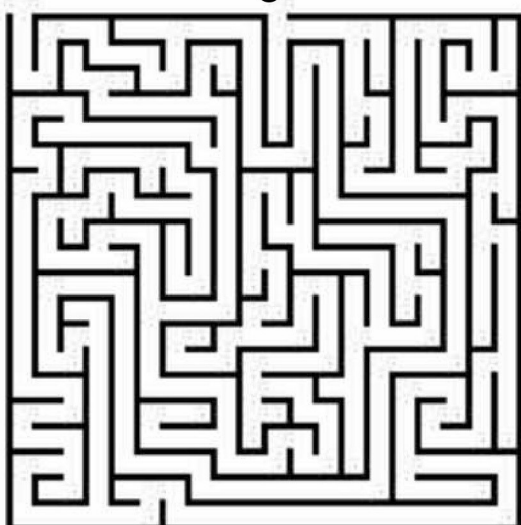
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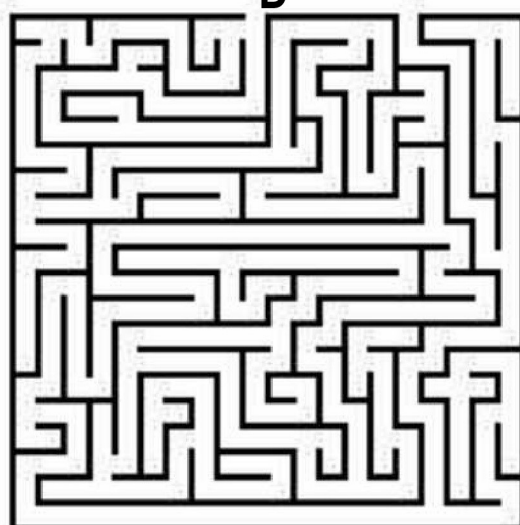
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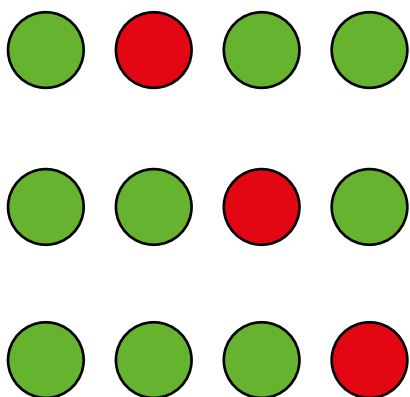
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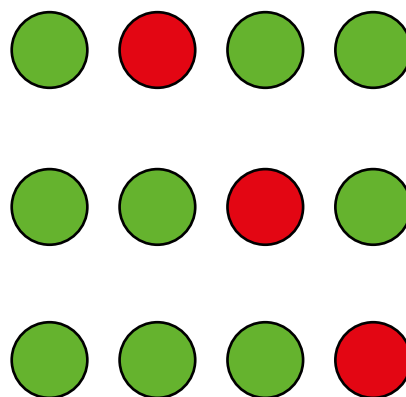
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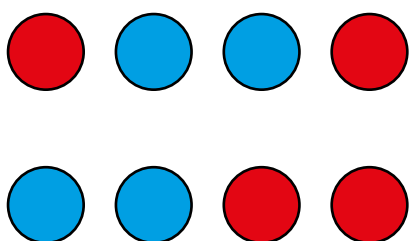
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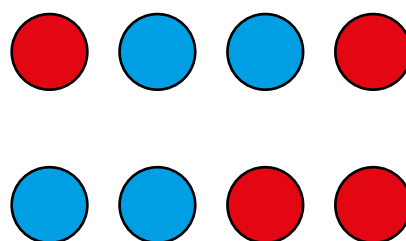
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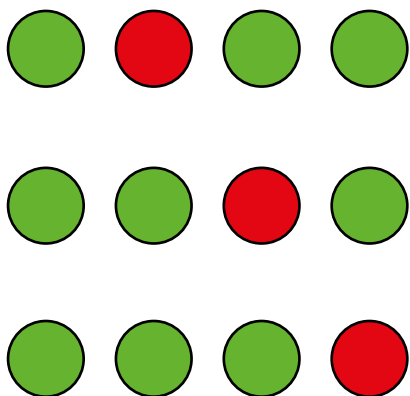
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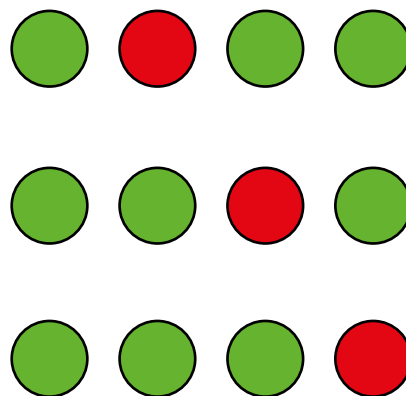
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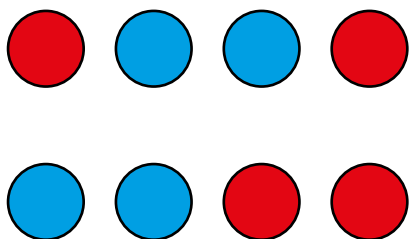
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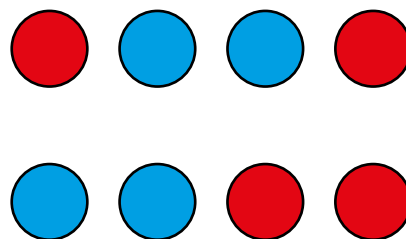
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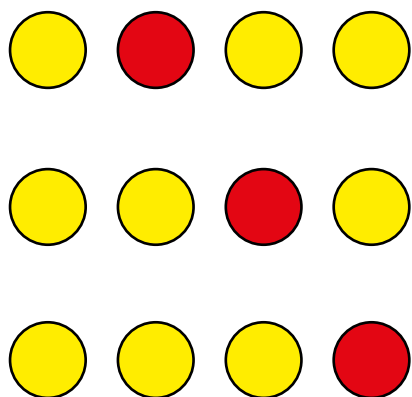
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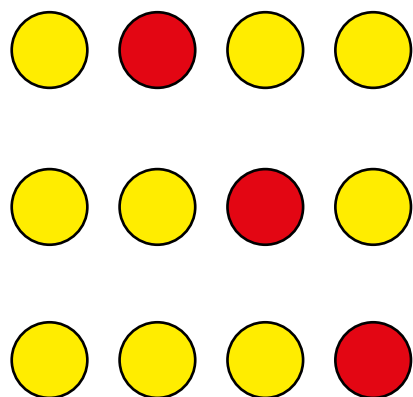
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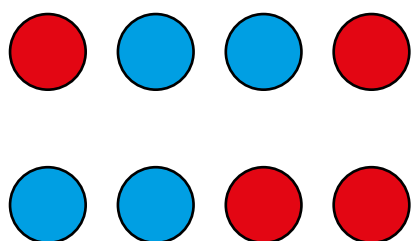
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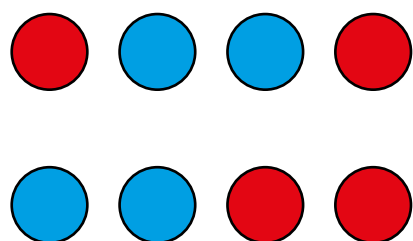
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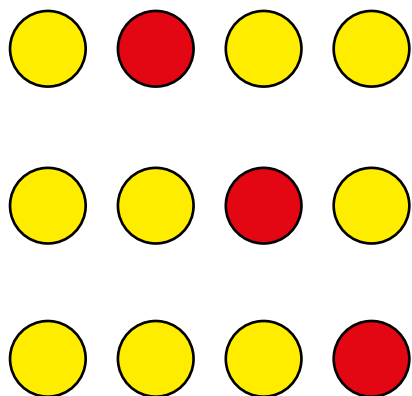
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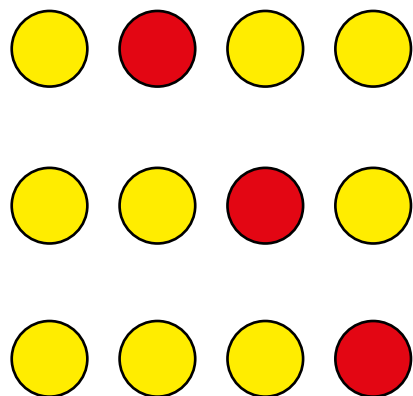
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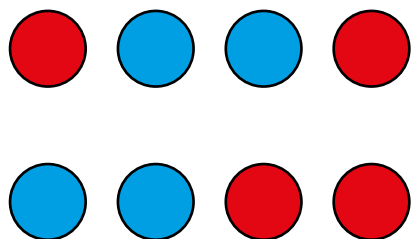
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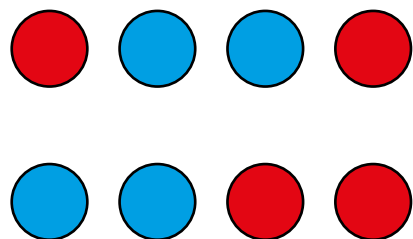
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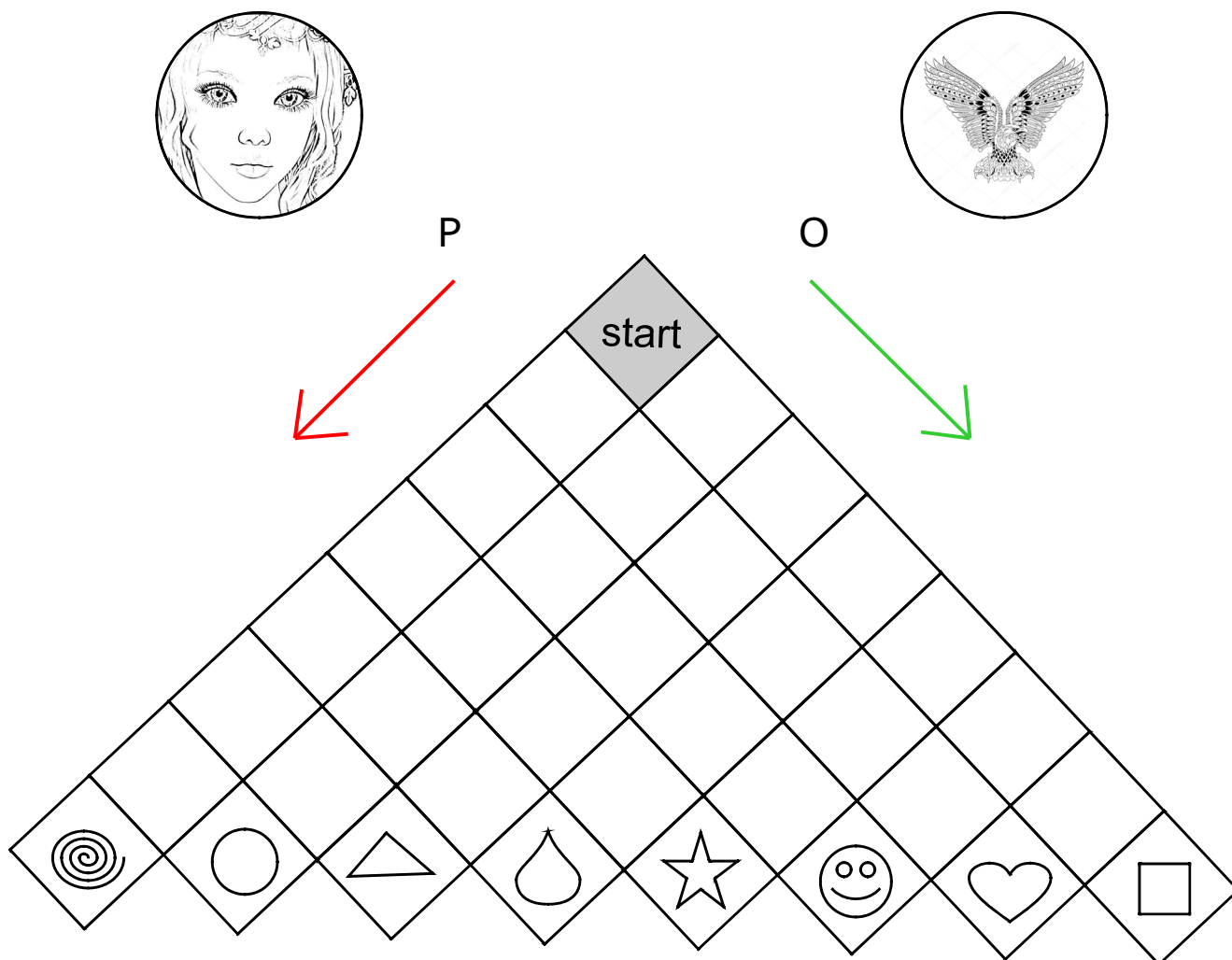


2.



2.





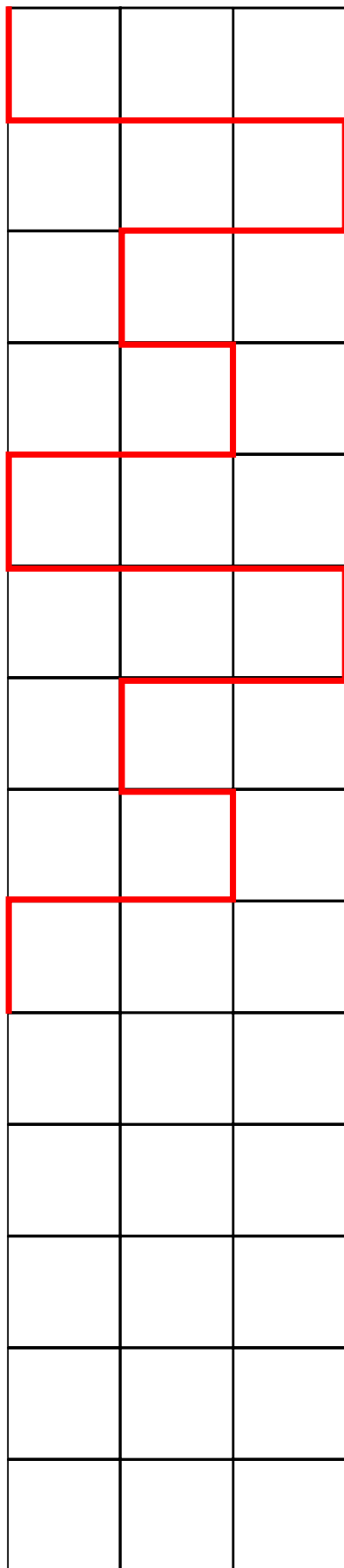
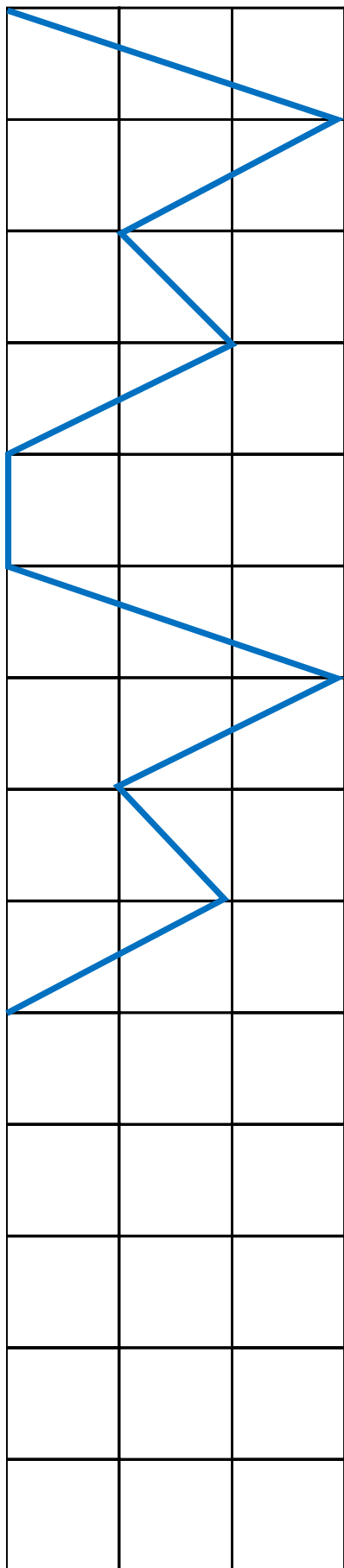
Rytmus

★	■	■
●	★	●
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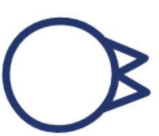
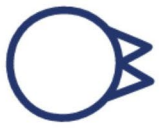







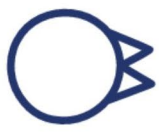
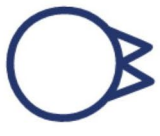

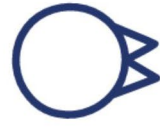





▶
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Pokračuj podle vzoru.



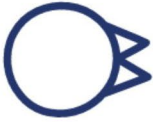


























Děpř
a
Lesson
ůň

Které družstvo je v přetahované silnější?

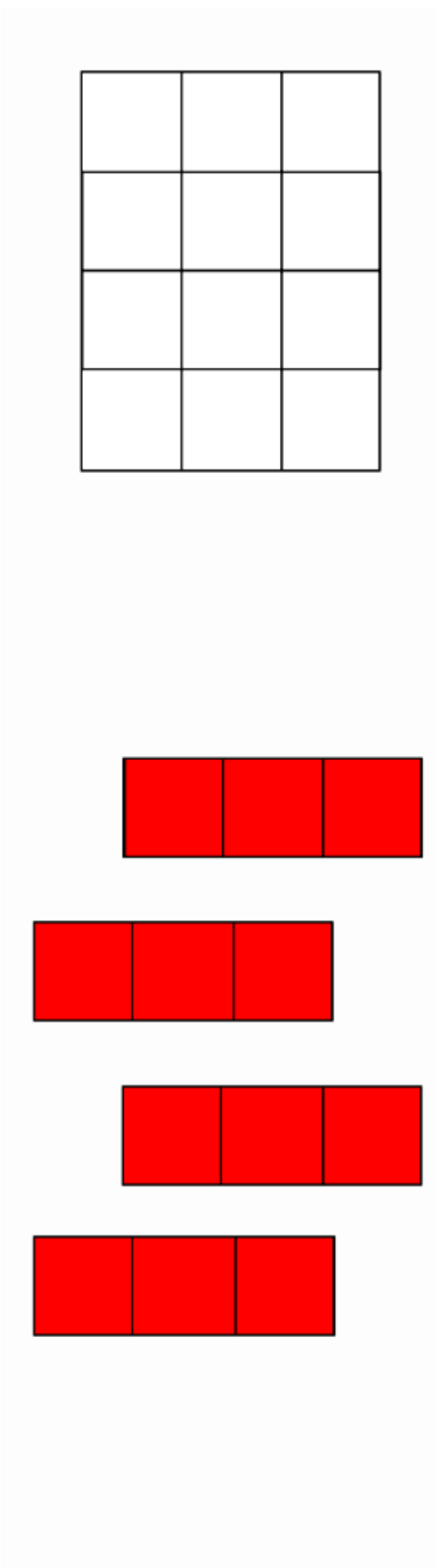
		
		
		
		
		
		
		
		
		

Které družstvo je v přetahované silnější?

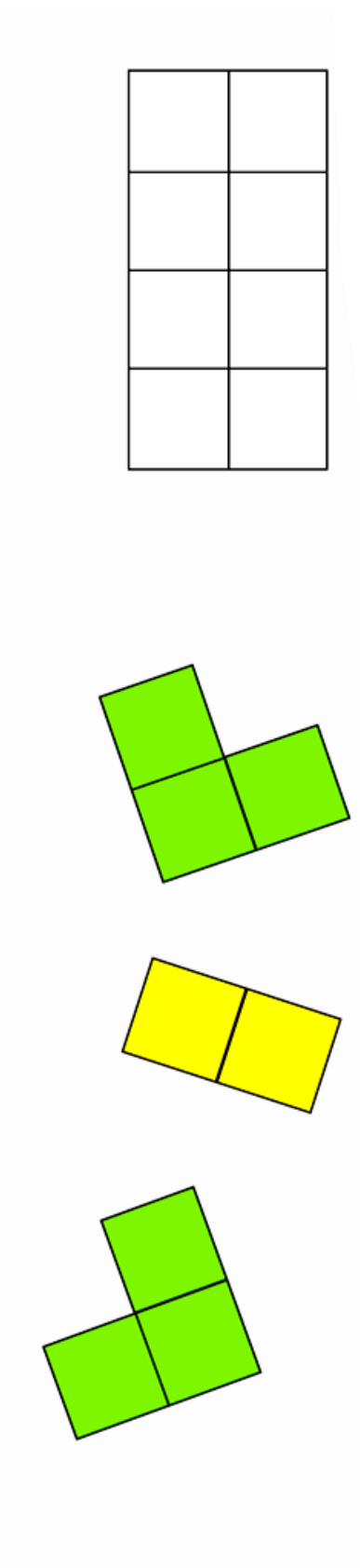
					
					
					
					
					

Průřezový klub

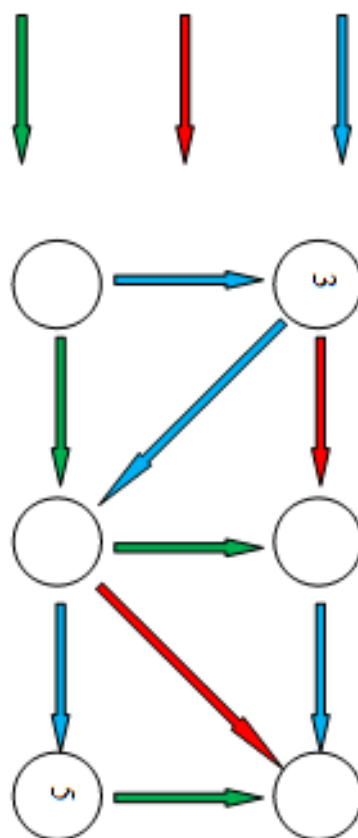
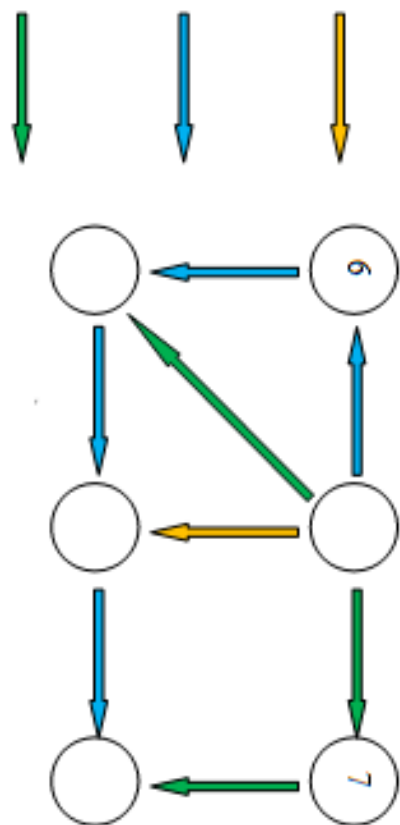
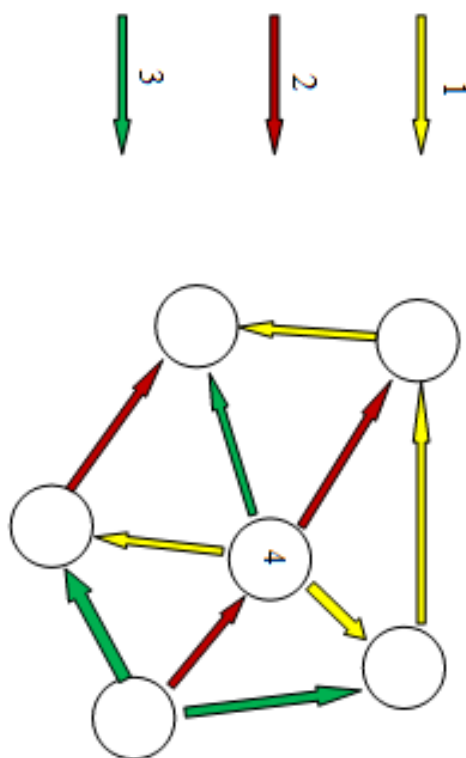
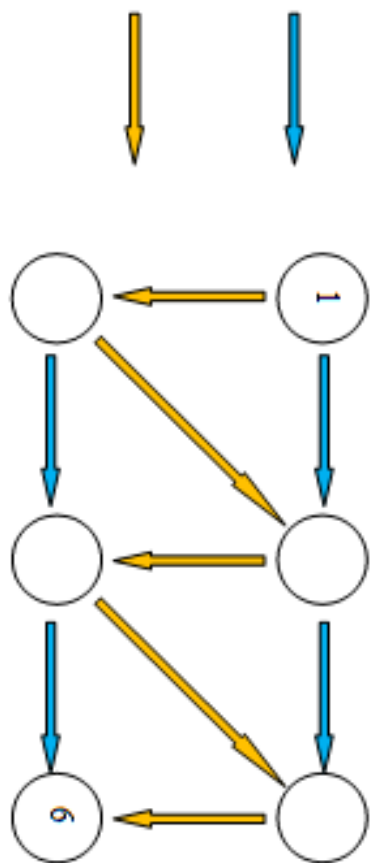
Pokryj podlahu parketami dle zadání.
Hledej všechna řešení.



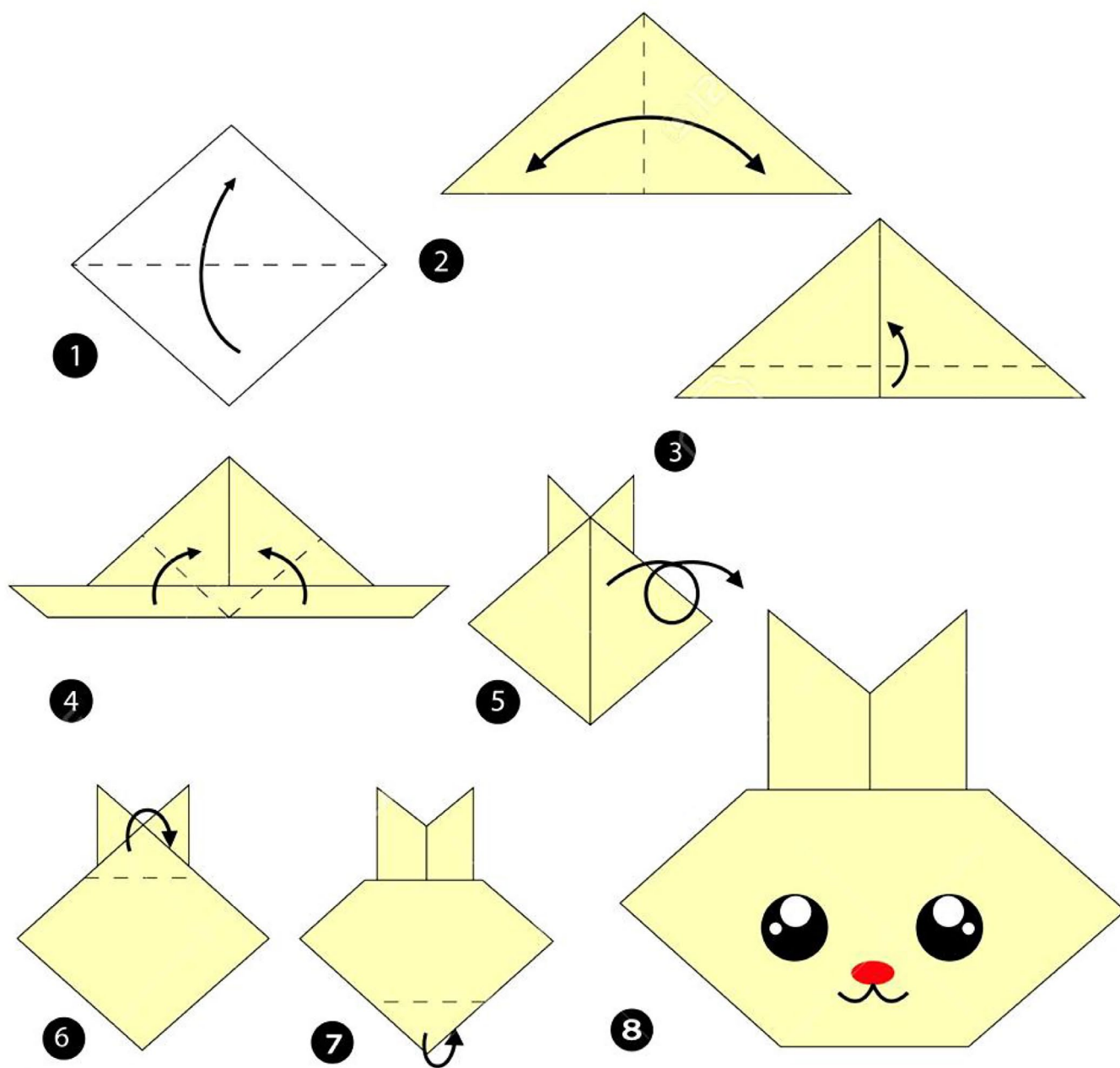
Pokryj podlahu parketami dle zadání.
Hledej všechna řešení.



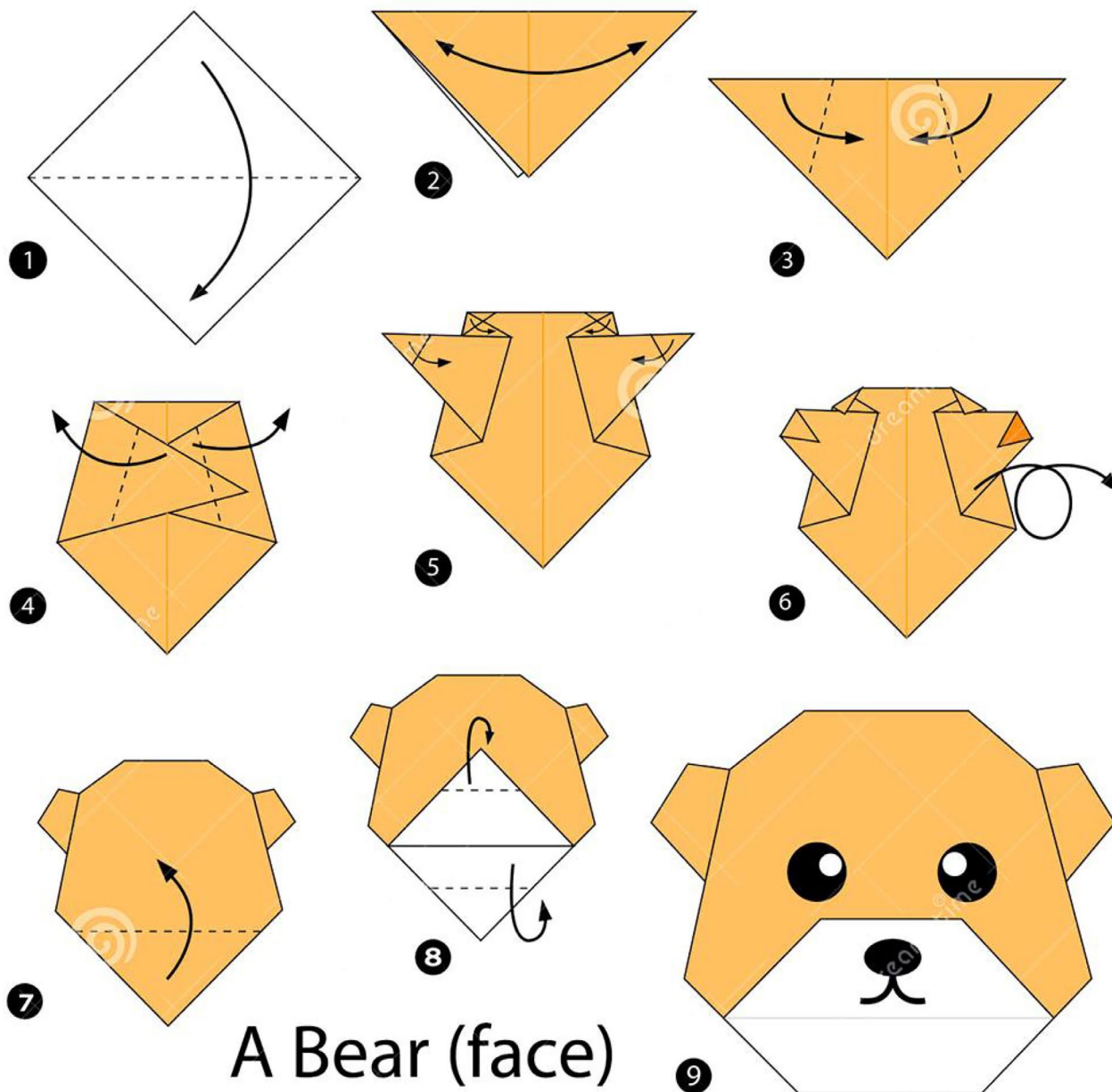
Přavňičiny

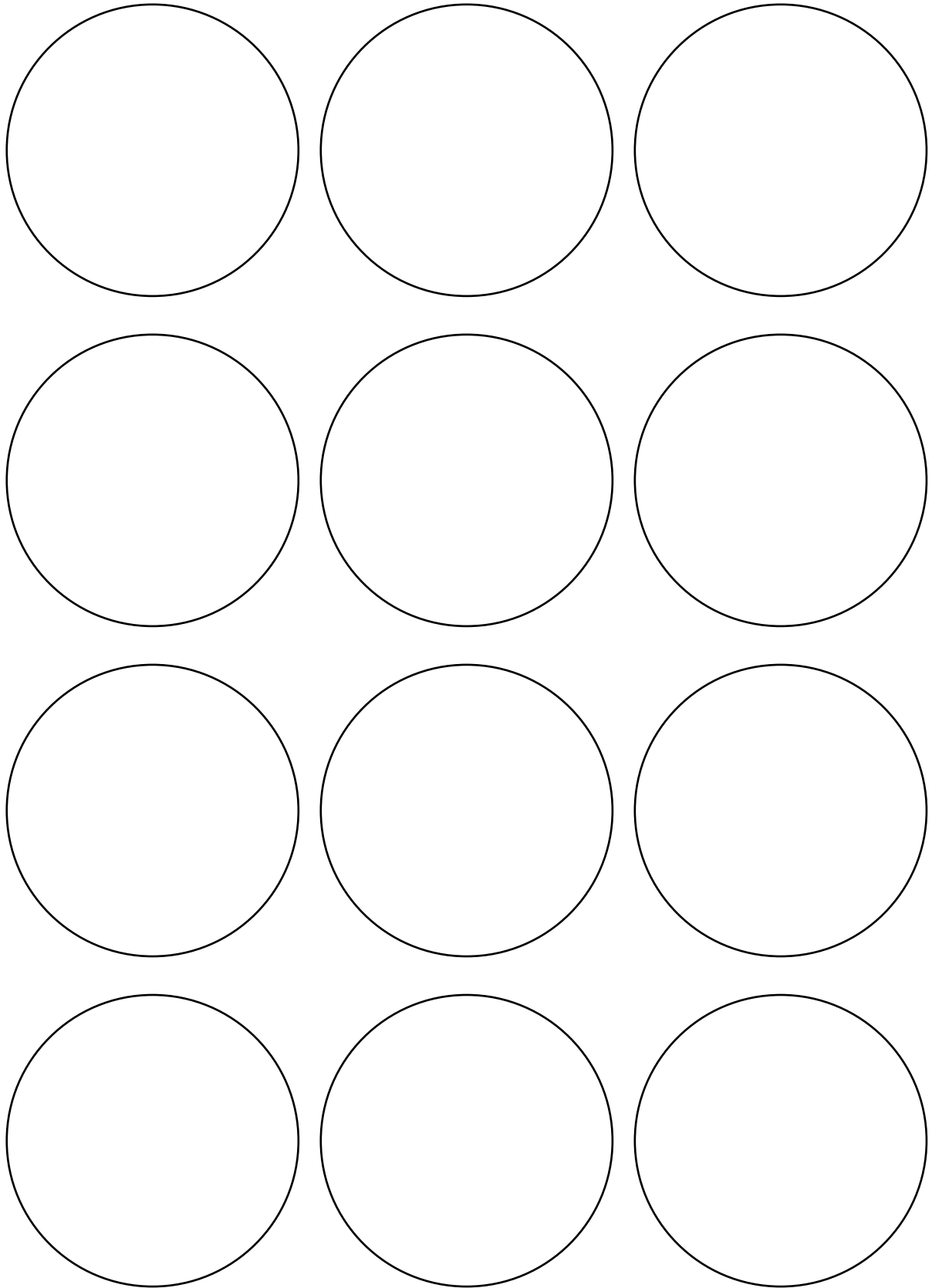


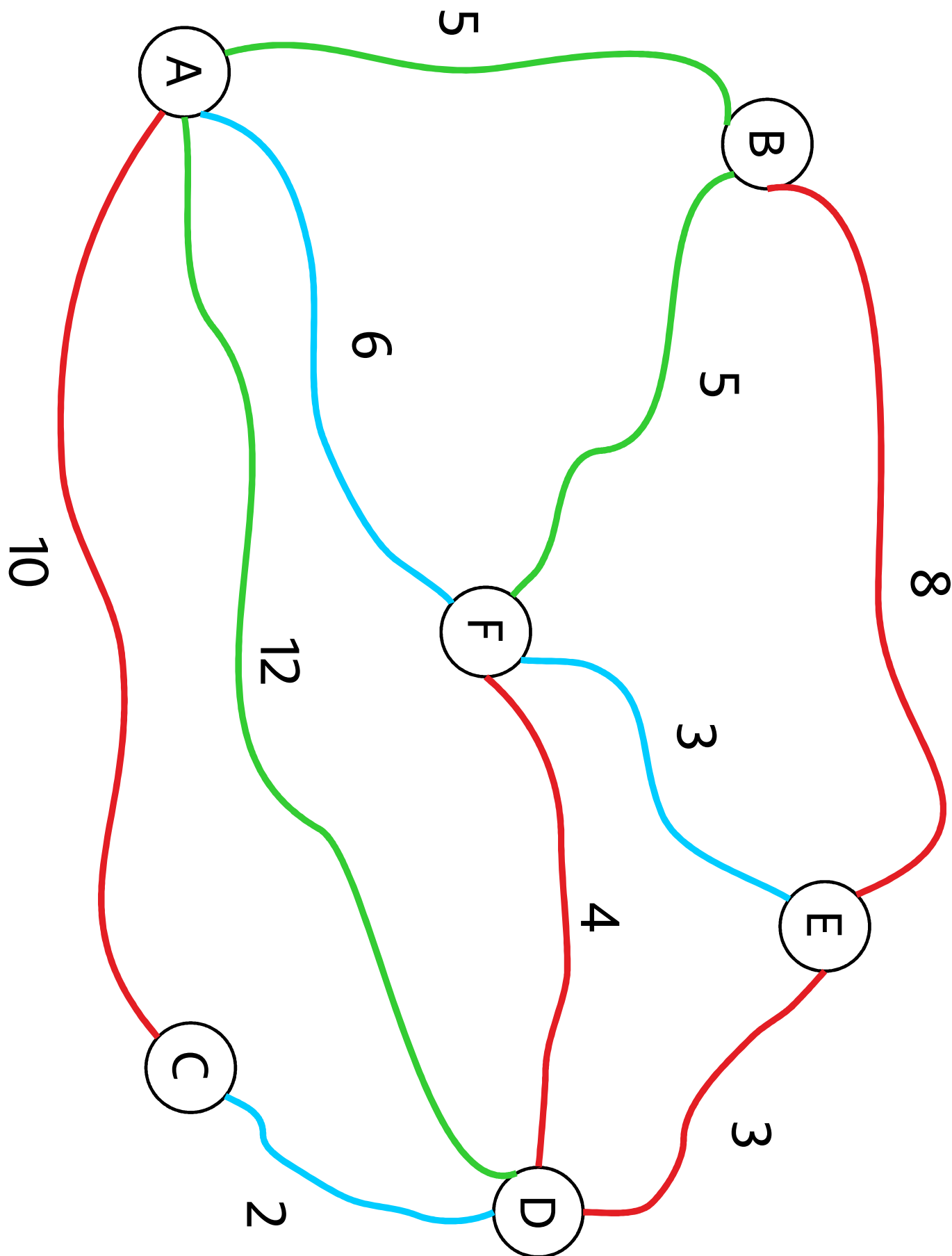
Originalami



A Rabbit (face)







1. $\boxed{D} \text{---} \boxed{F} \text{---} \boxed{} \text{---} \boxed{A}$

2. $\boxed{E} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{D}$

3. $\boxed{C} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{}$

4. $\boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{B}$

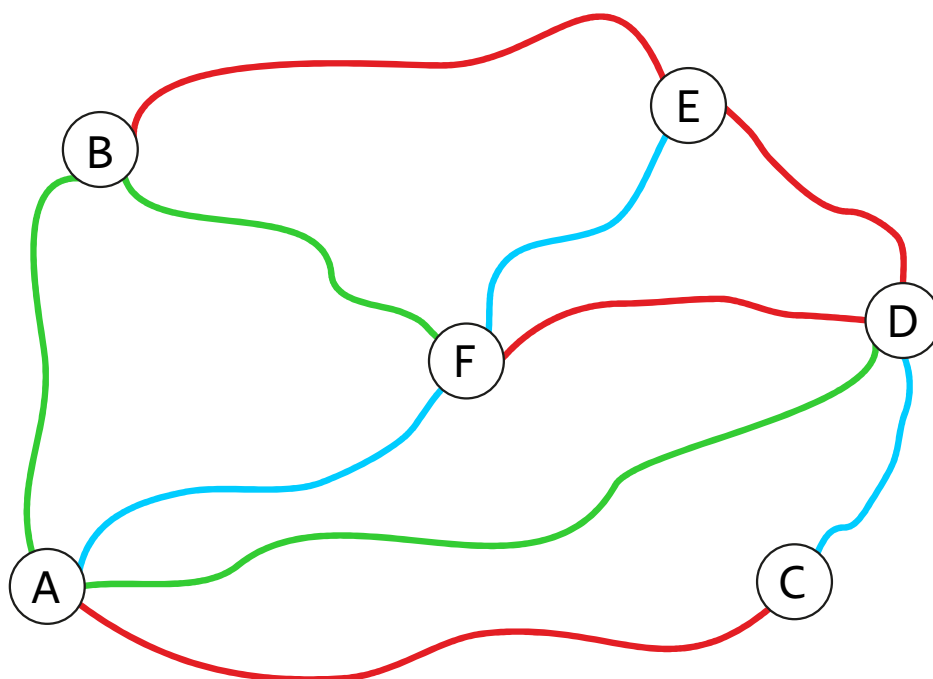
5. $\boxed{} \text{---} \boxed{} \text{---} \boxed{E} \text{---} \boxed{} \text{---} \boxed{}$

6. $\boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{}$

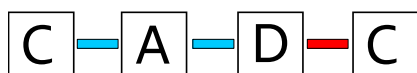
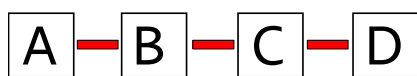
7. $\boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{}$

8. $\boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{}$

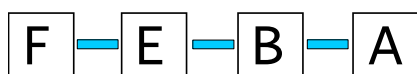
9. $\boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{} \text{---} \boxed{}$



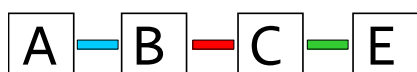
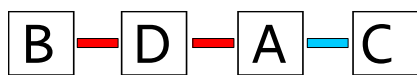
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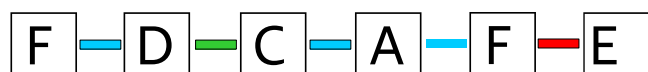
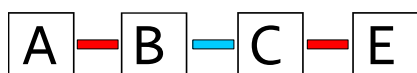
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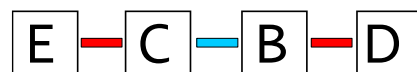
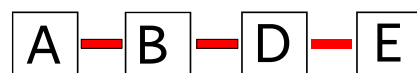
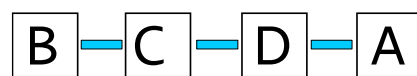
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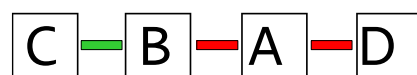
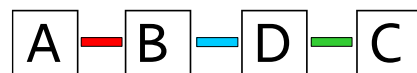
6.





2.





4.





	<p>MEZI KL A NO BYDLÍ EF.</p>
<p>EF</p>	<p>EF</p>
	<p>NO BYDLÍ NA ČTVRTÉM PODLAŽÍ.</p>
<p>NO</p>	<p>NO</p>

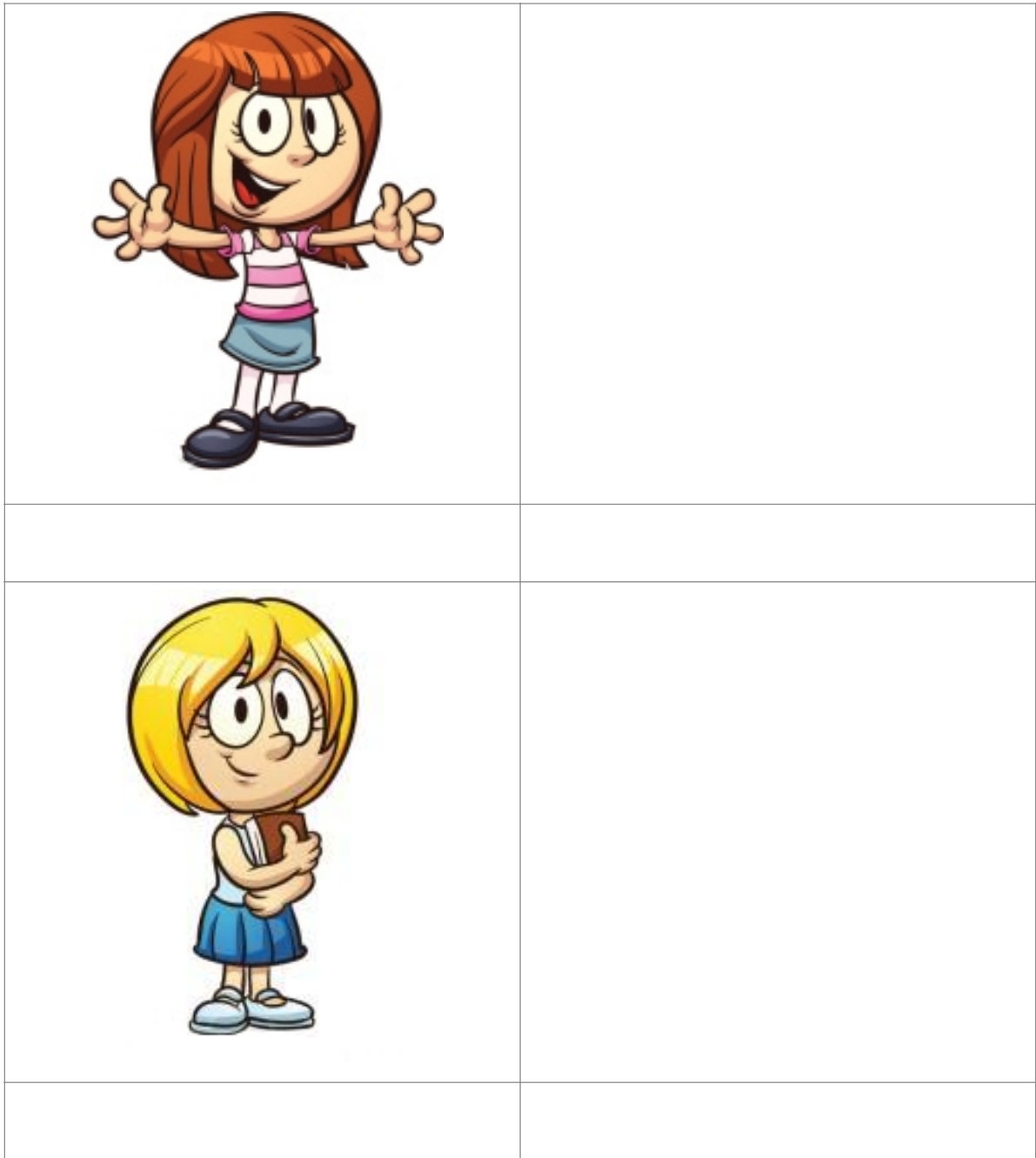
	<p>DE BYDLÍ NÍŽE NEŽ EF , ALE VÝŠ NEŽ FG .</p>
<p>DE</p>	<p>DE</p>
	<p>FG BYDLÍ O ČTYŘI PODLAŽÍ NÍŽ NEŽ KL .</p>
<p>FG</p>	<p>FG</p>

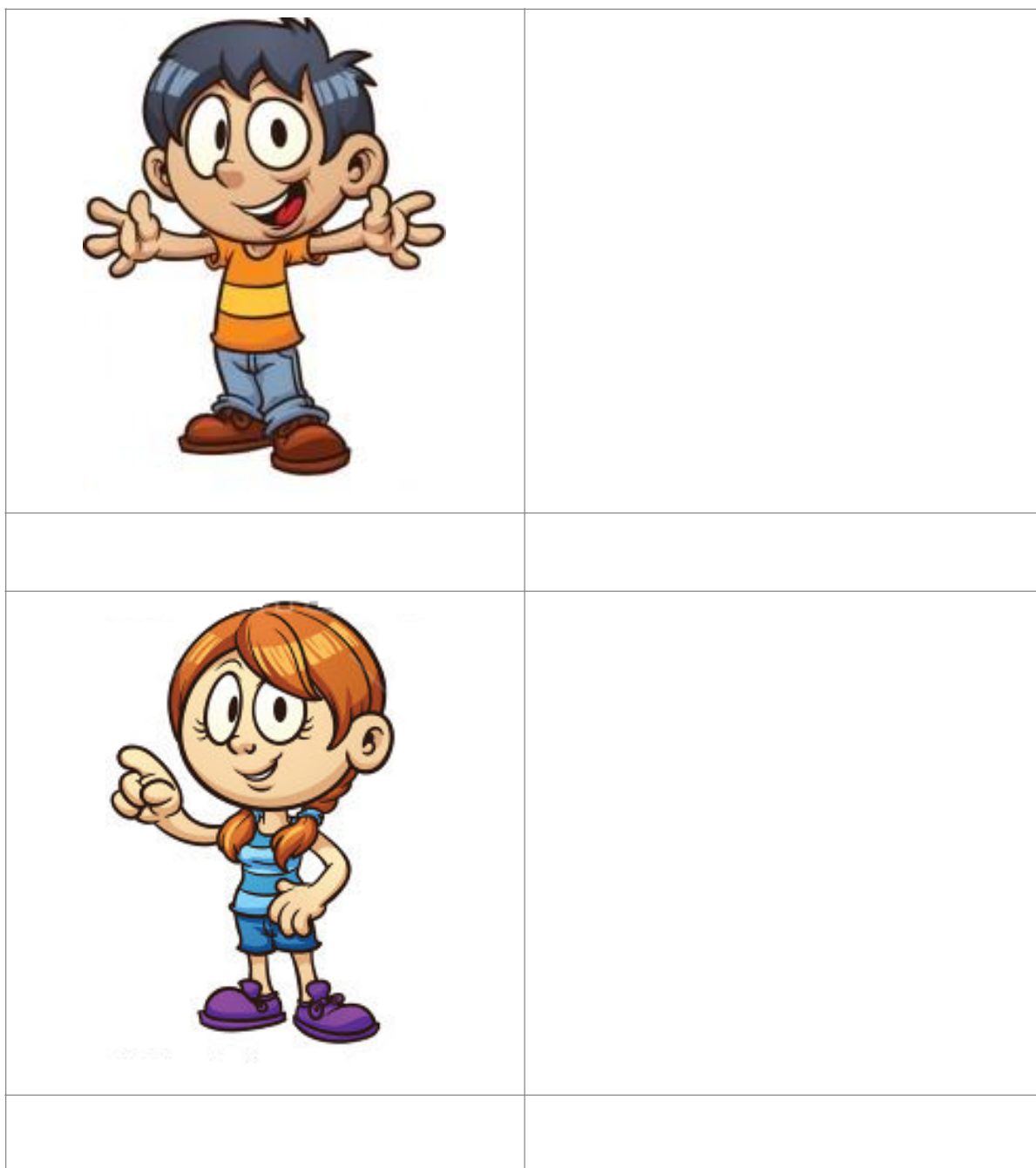
	<p>KL BYDLÍ O DVĚ PODLAŽÍ VÝŠE NEŽ NO .</p>
<p>KL</p>	<p>KL</p>
	<p>JK BYDLÍ O TŘI PODLAŽÍ NÍŽ NEŽ NO .</p>
<p>JK</p>	<p>JK</p>

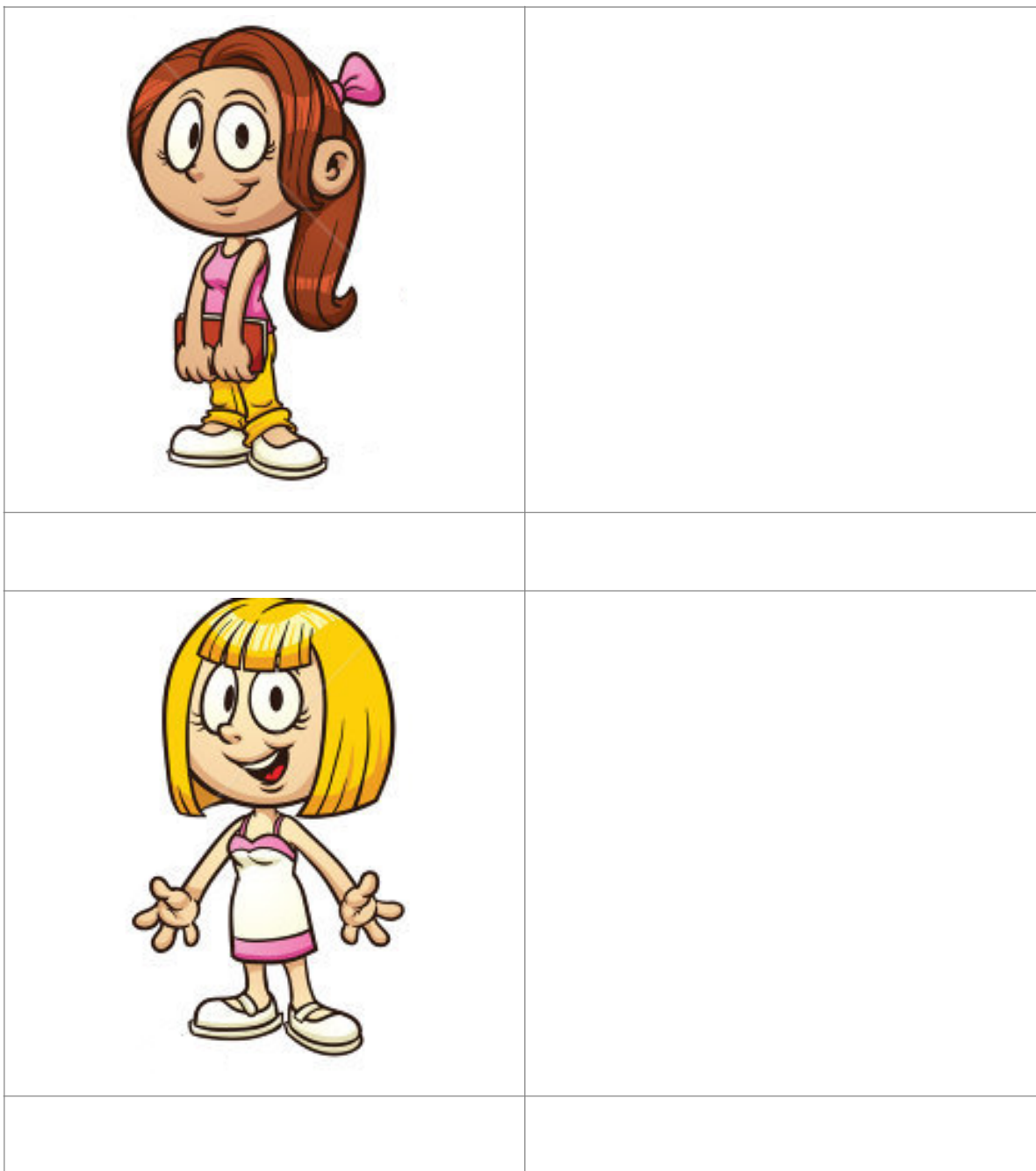
	<p>PŘÍMO POD LM BYDLÍ IJ .</p>
<p>IJ</p>	<p>IJ</p>
	<p>AB BYDLÍ TĚSNĚ POD CD.</p>
<p>AB</p>	<p>AB</p>

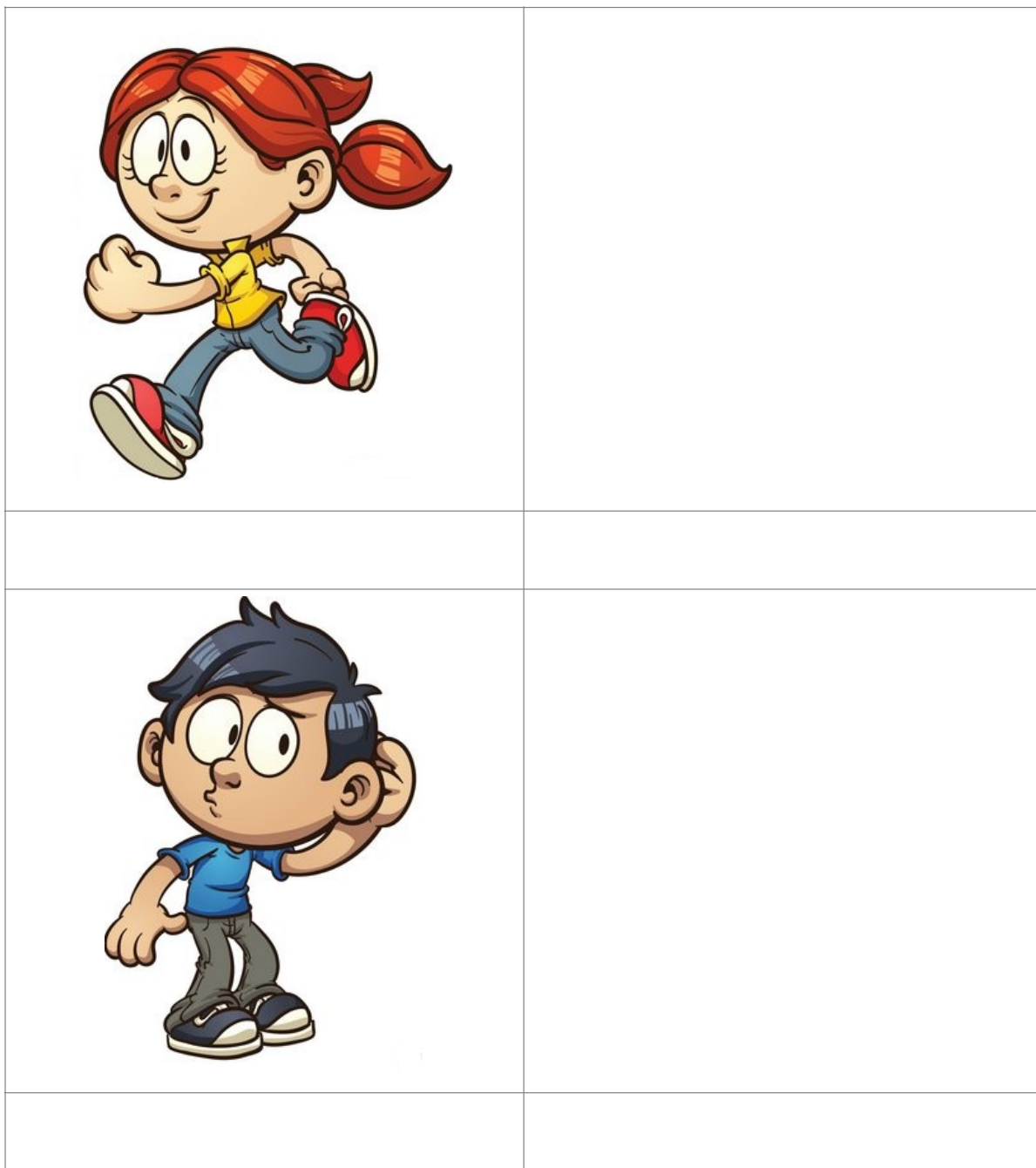
	<p>GH BYDLÍ PŘESNĚ NAD KL .</p>
<p>GH</p>	<p>GH</p>
	<p>CD BYDLÍ UPROSTŘED MEZI KL A LM .</p>
<p>CD</p>	<p>CD</p>

	<p>HI BYDLÍ O DVĚ PODLAŽÍ NÍŽ NEŽ LM .</p>
<p>HI</p>	<p>HI</p>
	<p>LM BYDLÍ NEJVÝŠE ZE VŠECH DĚTÍ.</p>
<p>LM</p>	<p>LM</p>






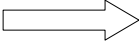


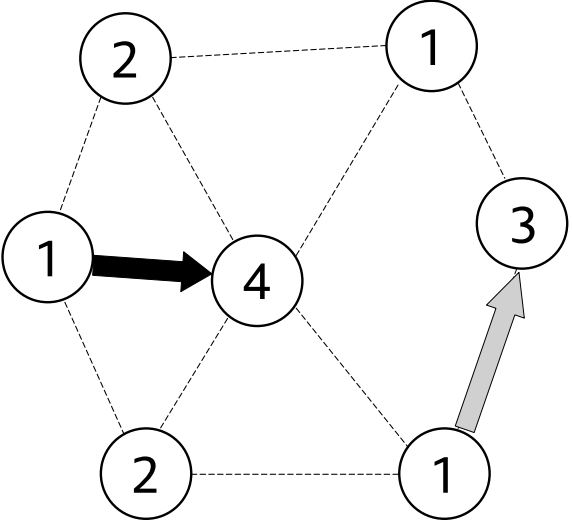



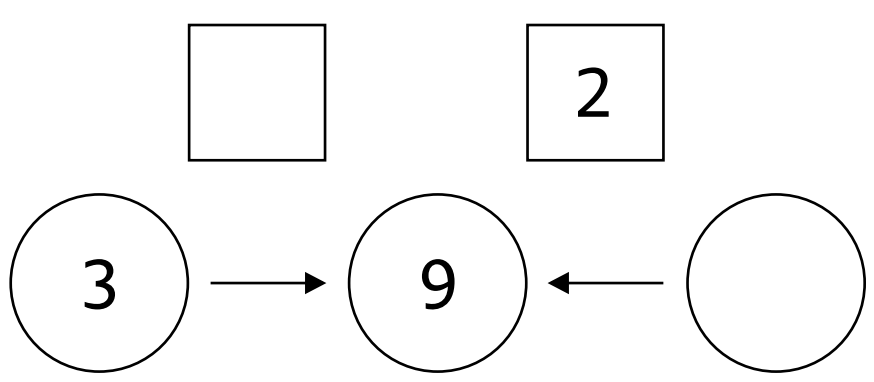
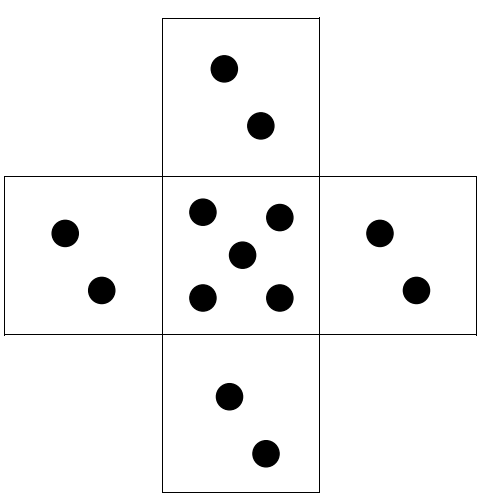
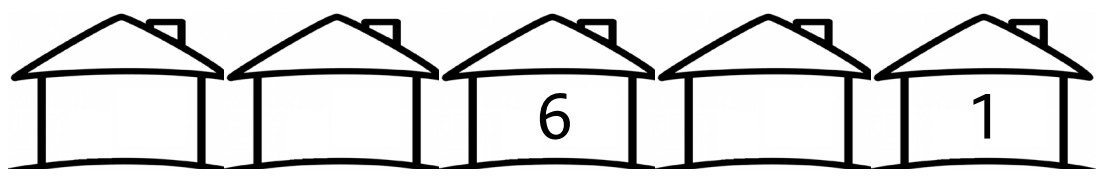


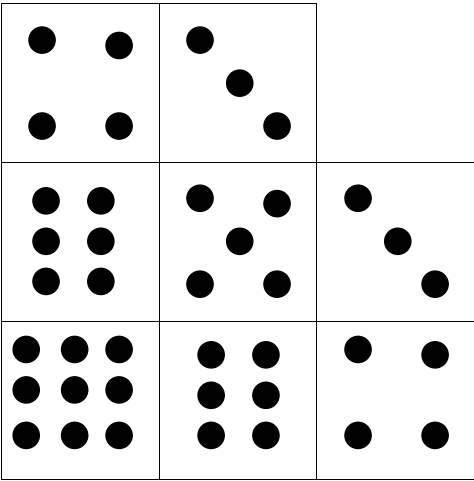
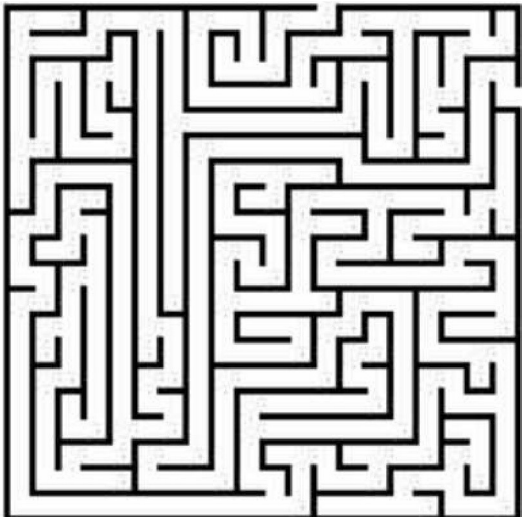
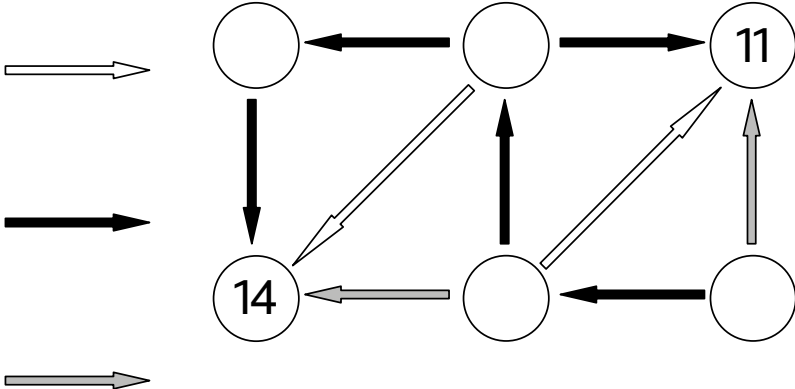
Kde kdo bydlí a kde má úlohu	
12. podlaží	LM
11. podlaží	IJ
10. p	HI
9. p	CD
8. p	AB
7. p	GH
6. p	KL
5. p	EF
4. p	NO
3. p	DE
2. p	FG
1. p	JK

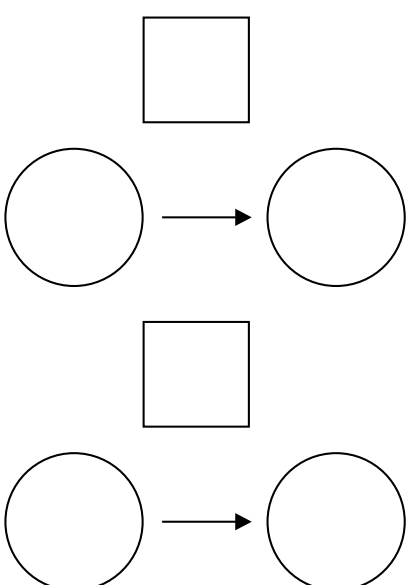
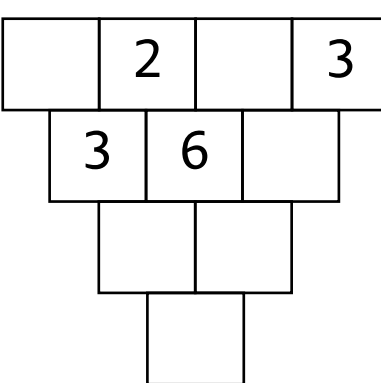
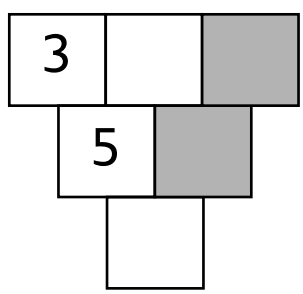
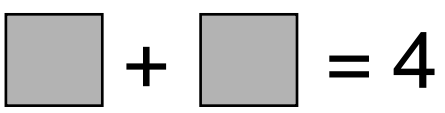
Úlohy na umístění v paneláku seřazené shora dolů od nejjednodušší, nezávislé na ostatních	míra závislosti na již „ubytovaných“ dětech
NO bydlí na 4. podlaží	1
LM bydlí nejvýše ze všech	1
KL bydlí o dvě podlaží výše než NO	2
JK bydlí o 3 podlaží níže než NO	2
Přímo pod LM bydlí IJ	2
HI bydlí o 2 podlaží níž než LM	2
GH bydlí přesně nad KL	3
FG bydlí o 4 podlaží níž než KL	3
Mezi KL a NO bydlí EF	3
DE bydlí níže než EF, ale výše než FG	3
CD bydlí uprostřed mezi KL a LM	3
AB bydlí těsně pod CD	4

o	<p style="text-align: center;">Vyřeš krokodýlí bažinu.</p> <table border="1" style="margin: 20px auto; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 50px; height: 50px;">7</td> <td style="width: 50px; height: 50px;"></td> <td style="width: 50px; height: 50px;"></td> </tr> <tr> <td style="width: 50px; height: 50px;"></td> <td style="width: 50px; height: 50px;"></td> <td style="width: 50px; height: 50px;">4</td> </tr> <tr> <td style="width: 50px; height: 50px;"></td> <td style="width: 50px; height: 50px;"></td> <td style="width: 50px; height: 50px;">1</td> </tr> </table> <div style="text-align: right; margin-top: 20px;">  </div>	7					4			1
7										
		4								
		1								
n	<p style="text-align: center;">Vyřeš hada.</p> <div style="text-align: center; margin-top: 20px;"> <table style="margin: 0 auto;"> <tr> <td style="border: 1px solid black; padding: 5px 15px;">6</td> </tr> <tr> <td style="text-align: center; margin-top: 10px;"> <table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 10px 20px; text-align: center;">10</td> <td style="font-size: 2em; vertical-align: middle; padding: 0 10px;">←</td> <td style="border: 1px solid black; border-radius: 50%; width: 50px; height: 50px; margin-left: 10px;"></td> </tr> </table> </td> </tr> </table> </div>	6	<table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 10px 20px; text-align: center;">10</td> <td style="font-size: 2em; vertical-align: middle; padding: 0 10px;">←</td> <td style="border: 1px solid black; border-radius: 50%; width: 50px; height: 50px; margin-left: 10px;"></td> </tr> </table>	10	←					
6										
<table style="display: inline-table; vertical-align: middle;"> <tr> <td style="border: 1px solid black; border-radius: 50%; padding: 10px 20px; text-align: center;">10</td> <td style="font-size: 2em; vertical-align: middle; padding: 0 10px;">←</td> <td style="border: 1px solid black; border-radius: 50%; width: 50px; height: 50px; margin-left: 10px;"></td> </tr> </table>	10	←								
10	←									

m	<p>Vyřeš pavučinu.</p> <div style="display: flex; align-items: center; gap: 20px;"> <div style="text-align: center;"> <p>1</p>  </div> <div style="text-align: center;"> <p>2</p>  </div> <div style="text-align: center;"> <p>3</p>  </div> </div> <div style="margin-top: 20px;">  </div>																
l	<p>Vyřeš krokodýlí bažinu.</p> <div style="display: flex; align-items: center; justify-content: space-around; margin-top: 20px;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 200px; height: 150px;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td>12</td></tr> <tr><td>2</td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td>6</td><td> </td><td> </td></tr> </table> <div style="text-align: center;">  </div> </div>								12	2					6		
			12														
2																	
	6																

k	<p>Vyřeš hada.</p> 
j	<p>Postav stavbu podle plánu.</p> 
i	<p>Vyřeš sousedy. Na každé oslavě bude 9 lidí.</p> 

<p>h</p>	<p>Postav stavbu podle plánu.</p> 
<p>g</p>	<p>Vyřeš bludiště.</p> 
<p>f</p>	<p>Vyřeš pavučinu.</p> 

<p>e</p>	<p>Vyřeš hada. Vrať neposedy.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>2 5</p> <p> 8 10</p> <p>7 12</p> </div> <div style="text-align: center;">  </div> </div>
<p>d</p>	<p>Vyřeš součtový trojúhelník.</p> <div style="text-align: center;">  </div>
<p>c</p>	<p>Vyřeš součtový trojúhelník.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>

b	<p>Vyřeš vývojový diagram.</p> <pre> graph TD Start([Začni.]) --> PushUp[Udělej dřep.] PushUp --> Roll[Hod' kostkou.] Roll --> Decision{Padlo 6?} Decision -- ANO --> Write[Zapiš, kolik jsi udělal/a dřepů.] Write --> End([Konec.]) Decision -- NE --> PushUp </pre>
a	<p>Spoj 3 čísla a vytvoř 11.</p> <p>8 9 7 2 1 1 5 0 1 6 1 2 2</p> <p>■ + ■ + ■ = 11 ■ + ■ + ■ = 11 ■ + ■ + ■ = 11 ■ + ■ + ■ = 11</p>