

Keep → Thinking





 <https://www.thethinkacademy.com/>

学而思美国ONLINE

学前&小低数学课程体系

Think Academy 学前和小学低年级长期班体系专为 **3-8岁** 的小朋友打造，提供专业、系统且全面的全年数学课程。课程依据北美学生的学习特点与需求，通过培养孩子的**七大能力**：运算能力，逻辑推理能力，空间想象能力，测量与数据能力，创造力，表达力，和思辨力，帮助孩子在未来的理科学习中持续领先。

学前长期班根据学生的数学基础划分为Honors和Challenge体系，确保不同水平的学生都能找到适合的学习路径。**两个体系的大纲相同**，保障孩子们在小学低年级的阶段（PreK-G2）获得**足够的思维能力锻炼**，为小学高年级以后加快数学进度打好基础。此外Challenge在Honors班的基础上**增加了少量的竞赛拓展**，帮助孩子们顺利衔接小学高年级的奥数体系。

PreK：PreK的思维能力课不分班，孩子在进入K年级前有分班考试，结合孩子的上课表现与学习目标进入不同难度的课程。

Honors体系：专注培养孩子的七大能力，培养孩子对数学的兴趣与热爱，并具备超前学习和学习竞赛的潜力。

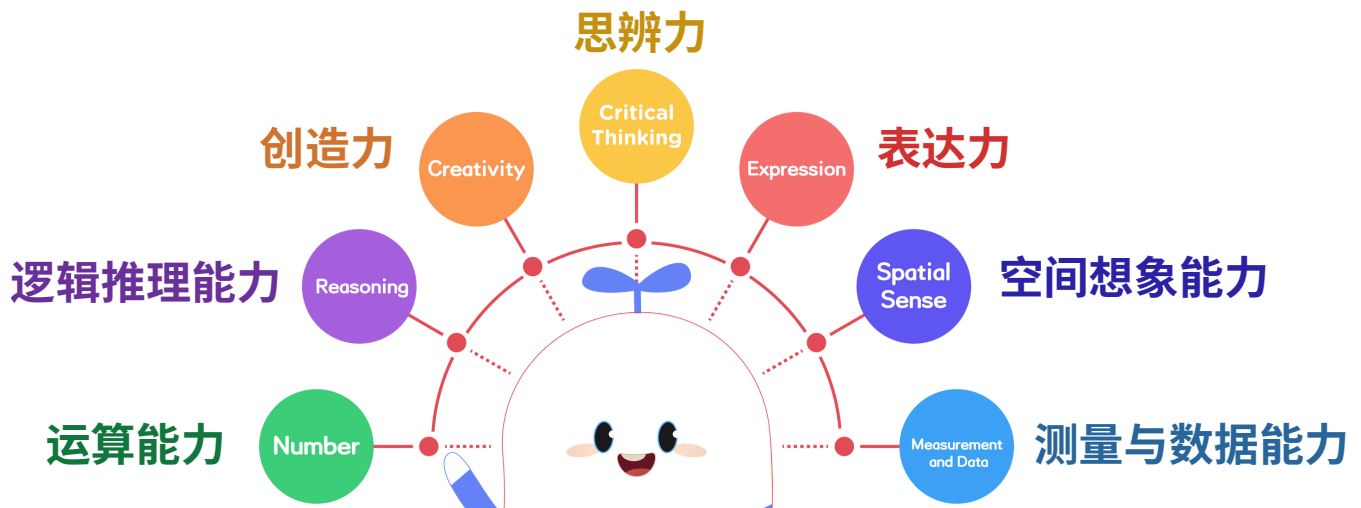
Challenge体系：Challenge课程在Honors课程的基础之上增加了竞赛拓展，对标Math Kangaroo的考纲，帮助孩子从小挑战数学竞赛的奖项。

幼小阶段学习规划				
班级	Pre-K	K	G1	G2
Honors 超前一年，稳固全A，直通顶班	Pre-K Think Ability	K Honors	G1 Honors	G2 Honors
Challenge 竞赛启蒙，加速两年，AP满贯		K Challenge	G1 Challenge	G2 Challenge
Competition 竞赛奠基，名师指导，晋级奥数				G2 Pre-ACE

什么是七大能力？

3大综合输出能力——学以致用

4大核心数学能力——激发兴趣



- 3-8岁是儿童思维发展关键期，
- 通过情景学习保护儿童好奇心，
- 在解决问题中提升孩子的探究乐趣、搭建和锻炼孩子的思维框架，
- 培养主动思维，养成儿童面向未来的学习能力。

创造力	复杂解题能力 加快校内进度 学习竞赛拓展		
思辨力			
表达力			
逻辑推理	应用题		
空间想象	小学几何	代数初步	高等函数
数据处理	统计与图表	平面几何	高中几何
运算能力	计算与巧算	科学课程	AP理科
PreK-G2	G3-G5	G6-G8	G9-G12

课程亮点

家长省心，规划清晰

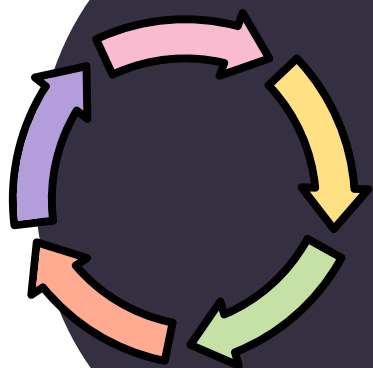
授课老师为孩子定制学习规划， 全程跟踪学习进度

- 报名课程：学习规划老师针对孩子的学习能力与目标，**制定个性化学习方案**。
- 上课期间：每月和家长**反馈孩子的学习情况**，提供有针对性的学习建议，并**监督落实孩子的提升方案**。
- 期中/期末：每学期组织**家长会**，梳理孩子的学习优势和薄弱环节，并制定新学期的学习规划。



每周学习闭环，保障学习效果

- 课前预习：15分钟**课前预习题**，温故而知新
- 课后作业：每节课**配套作业**题目，老师主动和家长反馈学生的作业完成情况。
- Office Hour：**免费作业讲解直播课**，解答孩子课后不明白的题目与知识点。
- 作业解析：每道作业配套**讲解视频**，随时复习错题



全年学习服务支持

- 专业客服，**全年 364 天 Parent APP 在线支持**，快速响应任何问题
- Parents App**直接和授课老师联系**，沟通更高效，随时掌握孩子的学情表现。
- 在线作业答疑，给孩子**最及时的学习帮助**

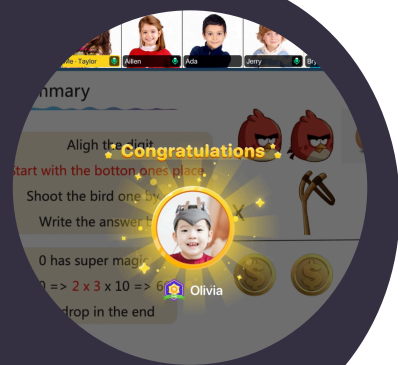


课程亮点

孩子开心，学习更高效

精心打磨课堂设计，让孩子爱上数学

- **互动游戏+情景化教学**，让数学课堂不再枯燥
- **金币激励**，孩子可以用金币兑换实体或虚拟奖品，给孩子更及时的正反馈，让孩子更主动地完成学习任务和目标。



自研上课App，强化线上课程体验

- Think Academy**自主研发的上课App**，给孩子带来更丰富的课上互动，包括举手上台，投票作答，选择填空，集体讨论等互动形式，保障**每3分钟一次互动**的频率，提升孩子的上课投入。
- 老师**实时观察每位孩子**的上课情况，保障孩子的学习体验与效果。



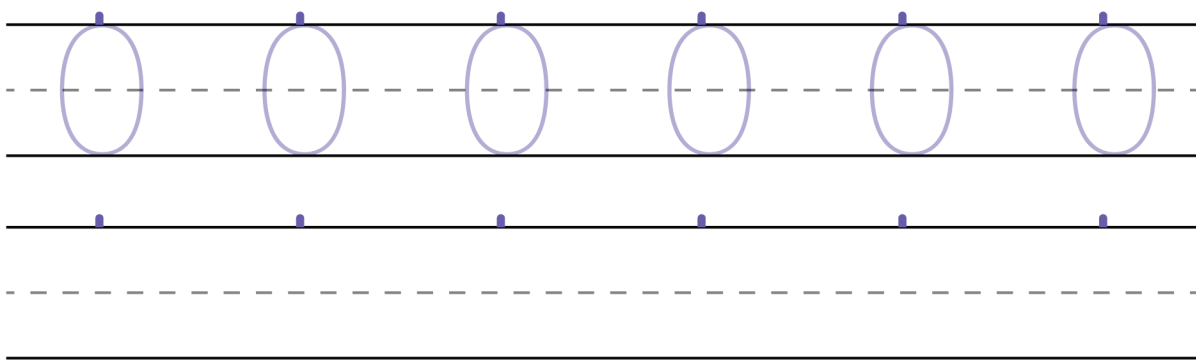
成就感带来底层学习动力

- 不仅课上学习高效，课后也有**完善的辅导答疑服务**。课后作业有视频解析，每周还有免费office hour解答孩子的问题，保障每节课都能学懂。
- 孩子在校内达到**成绩和进度双领先**。更愿意投入时间和精力在理科学习上，增强孩子的学习动力，自推成为**理科学霸**。



CONTENTS

<i>What is Think Academy?</i>	<i>1</i>
<i>Day 1</i>	<i>6</i>
<i>Day 2</i>	<i>17</i>
<i>Day 3</i>	<i>27</i>
<i>Day 4</i>	<i>33</i>
<i>Day 5</i>	<i>36</i>
<i>Day 6</i>	<i>39</i>
<i>Answers</i>	<i>45</i>



Color the number word.

ZERO



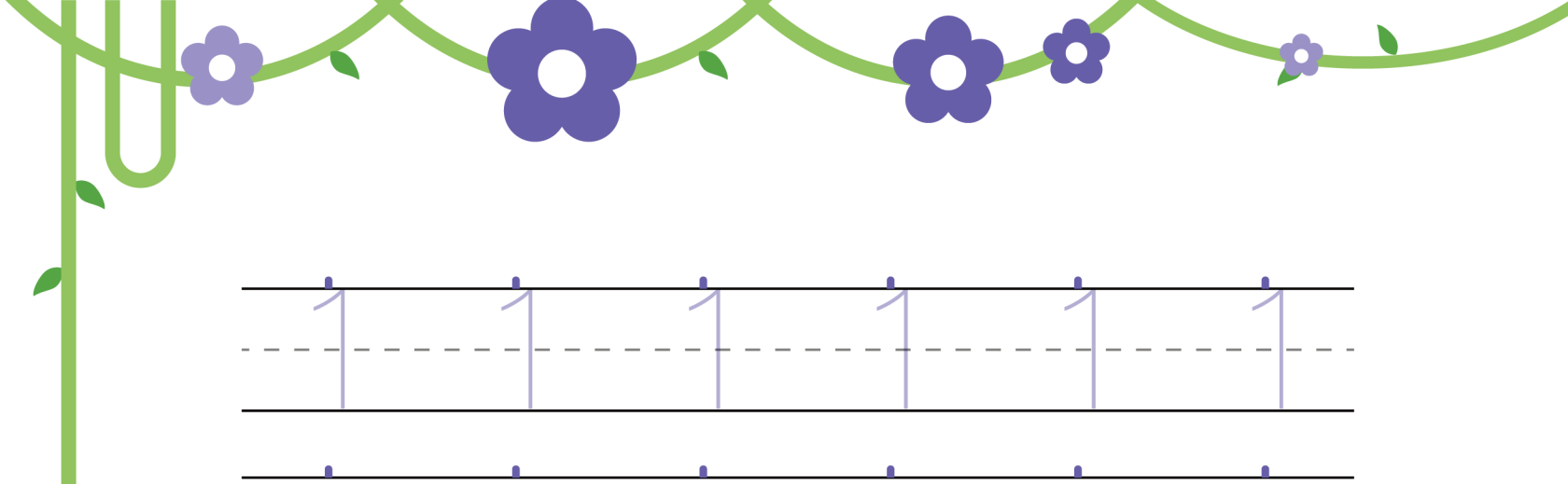
Color 0 stars.



Show the number on the frame.

--	--	--	--	--





Tracing practice lines for the number 1. The first row contains six vertical lines, each starting with a small blue dot and a downward arrow indicating the stroke direction. The second row contains six small blue dots on the top line, each with a downward arrow indicating the stroke direction.



Color the number word.

ONE



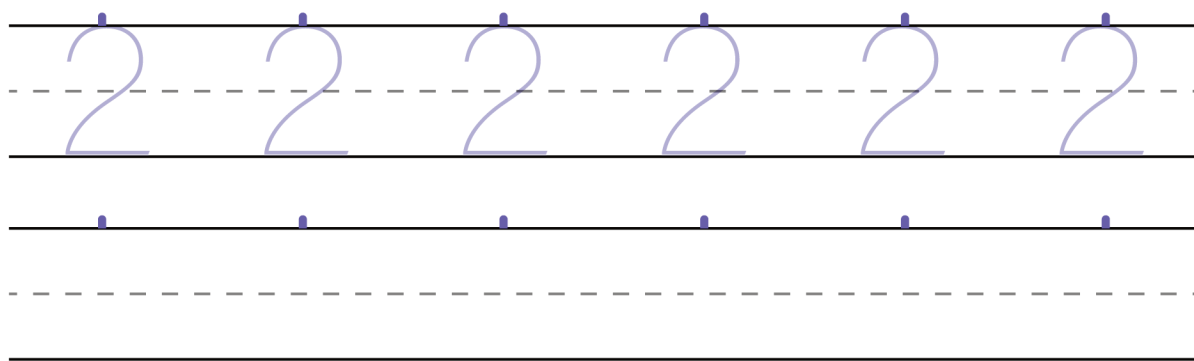
Color 1 star.



Show the number on the frame.

--	--	--	--	--





Color the number word.

TWO



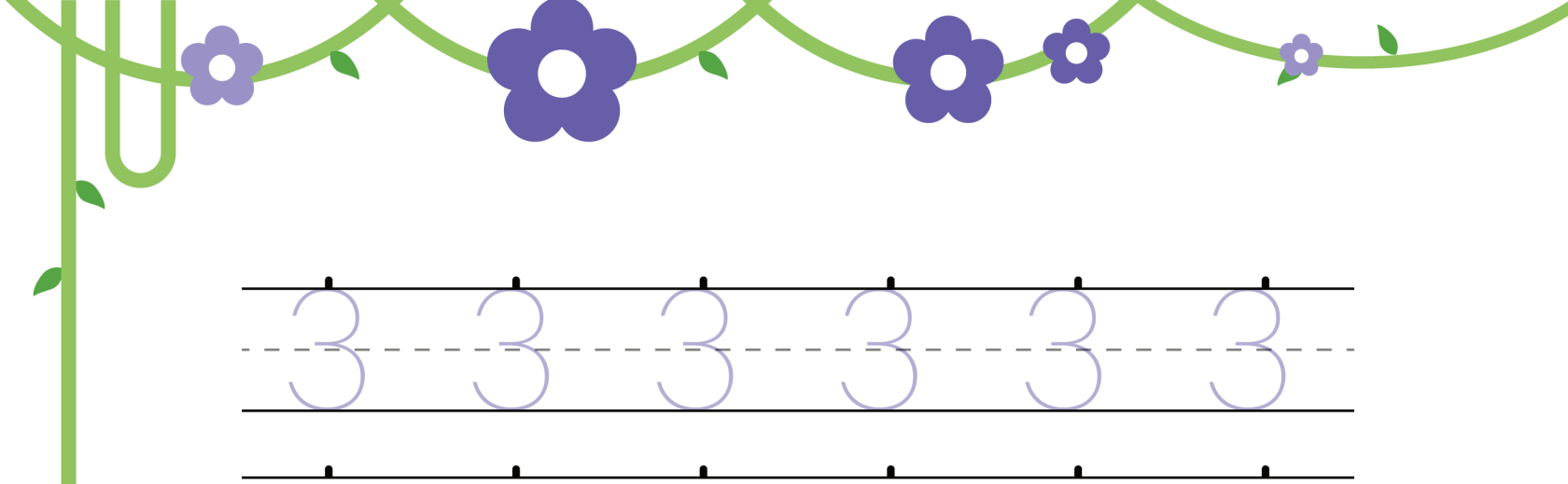
Color 2 stars.



Show the number on the frame.

--	--	--	--	--





3 3 3 3 3 3

Blank handwriting lines for practice.



Color the number word.

THREE



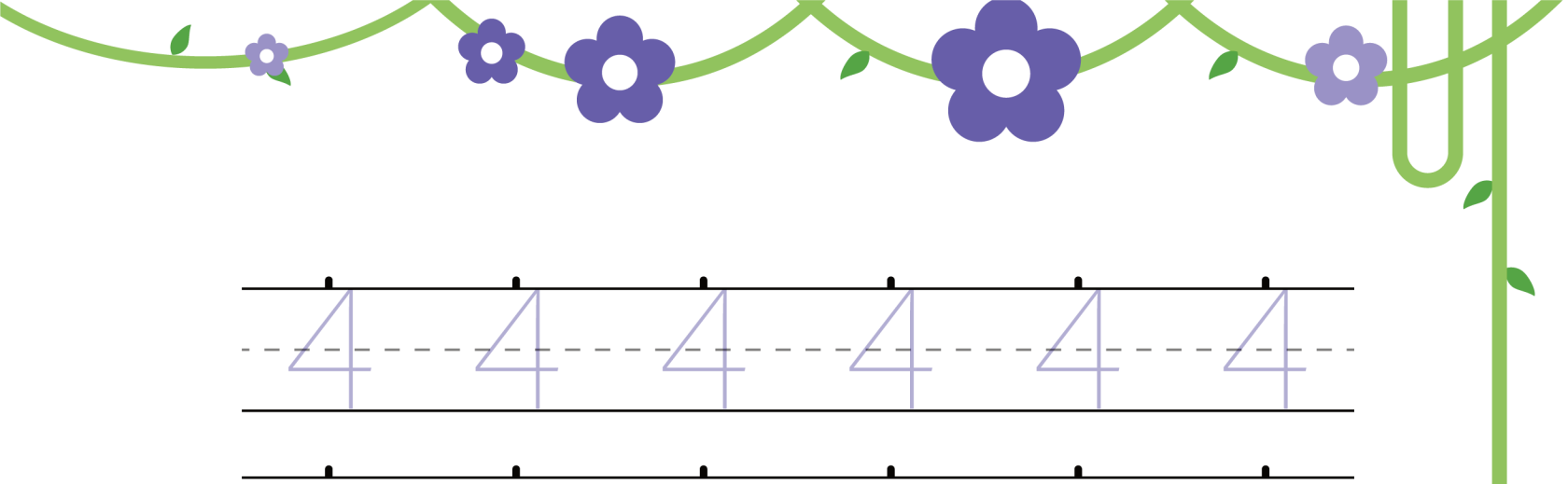
Color 3 stars.



Show the number on the frame.

--	--	--	--	--





Tracing practice for the number 4. The first row contains six dashed purple '4's on a three-line grid. The second row contains six empty three-line grids for independent practice.



Color the number word.

FOUR



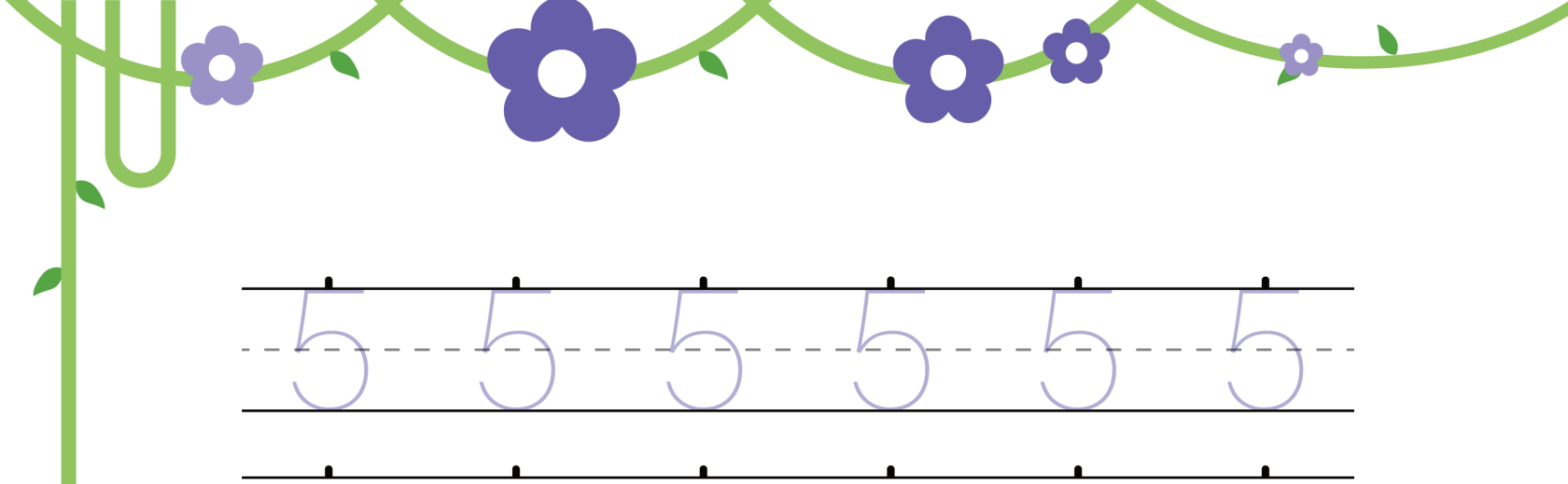
Color 4 stars.



Show the number on the frame.

--	--	--	--	--





Tracing practice for the number 5. The first row contains six dashed purple '5's on a three-line grid. The second row is empty for independent practice.



Color the number word.

FIVE



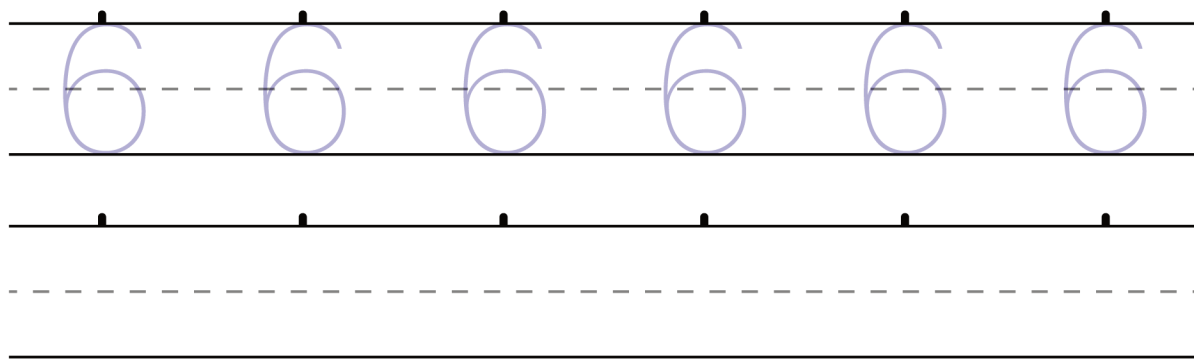
Color 5 stars.



Show the number on the frame.

--	--	--	--	--





Color the number word.

SIX



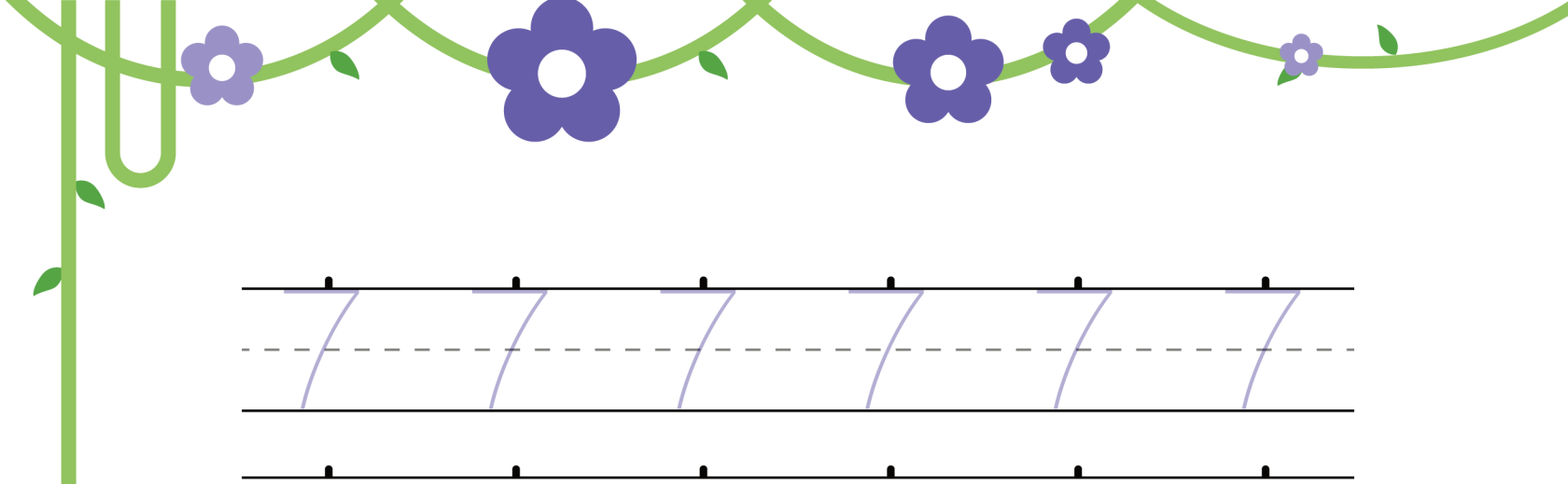
Color 6 stars.



Show the number on the frame.

--	--	--	--	--





Handwriting practice lines. The top section contains six slanted purple lines on a three-line grid (top solid, middle dashed, bottom solid). The bottom section contains six vertical black lines on a three-line grid (top solid, middle dashed, bottom solid).



Color the number word.

SEVEN

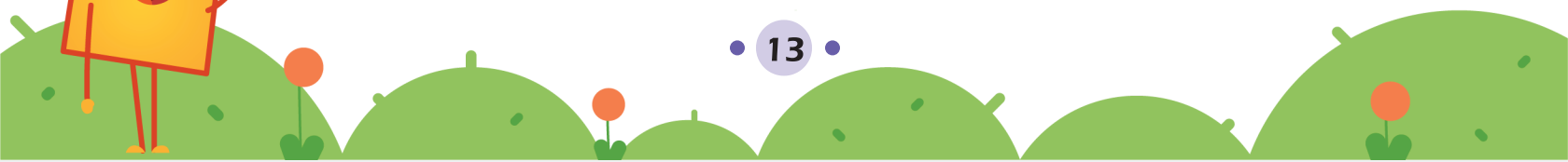


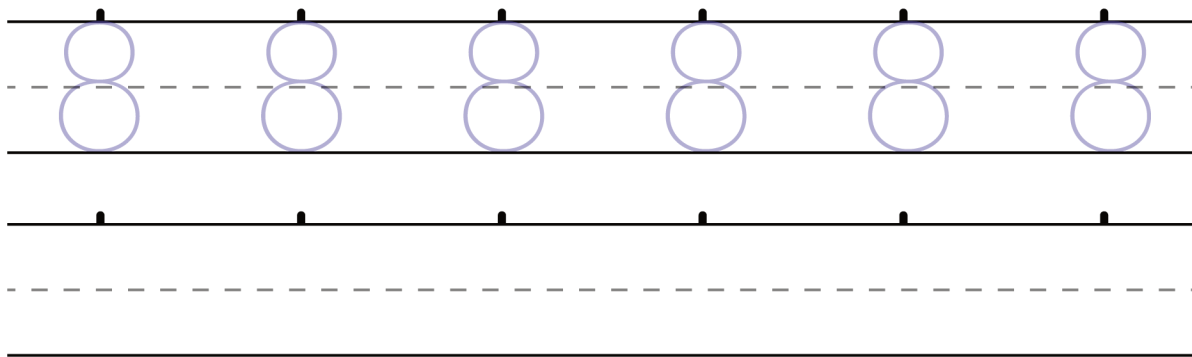
Color 7 stars.



Show the number on the frame.

--	--	--	--	--





Color the number word.

EIGHT



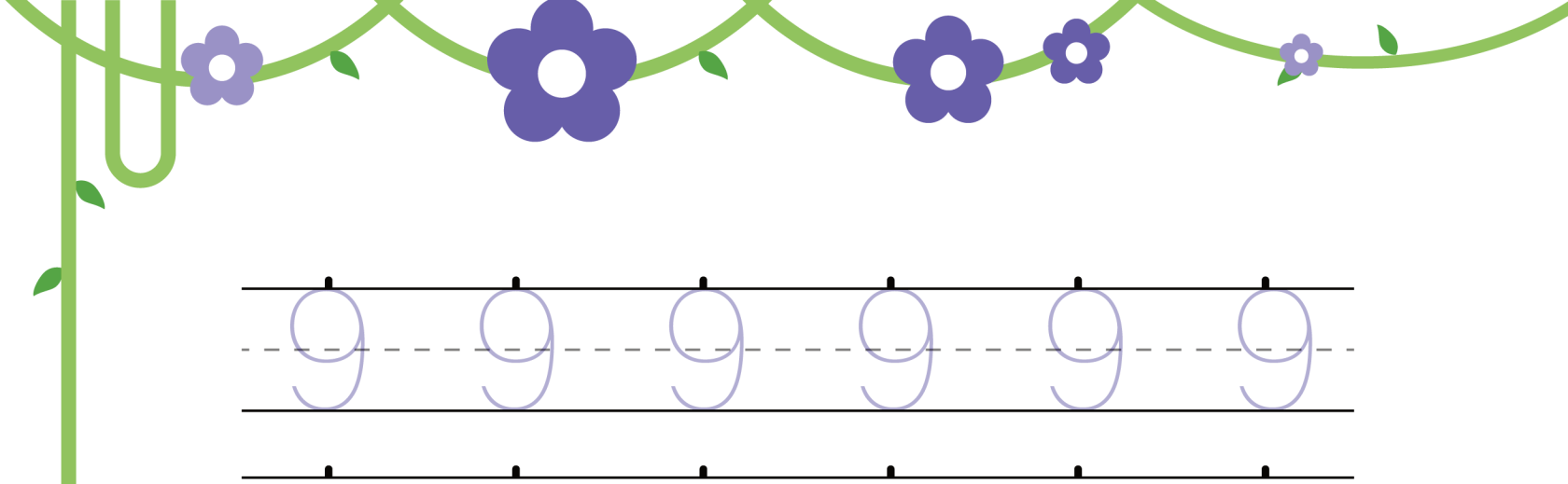
Color 8 stars.



Show the number on the frame.

--	--	--	--	--





9 9 9 9 9 9



Color the number word.

NINE



Color 9 stars.



Show the number on the frame.

--	--	--	--	--



10 10 10 10 10



Color the number word.

TEN



Color 10 stars.



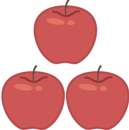
Show the number on the frame.

--	--	--	--	--



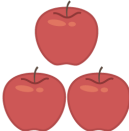
Day 2

1 Write addition for the fruits!





$$\boxed{} + \boxed{} = \boxed{}$$


$$\boxed{} + \boxed{} = \boxed{}$$





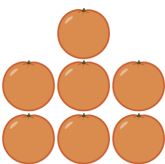
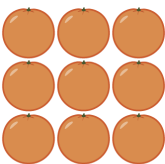
$$\boxed{} + \boxed{} = \boxed{}$$



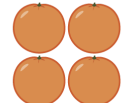
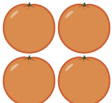
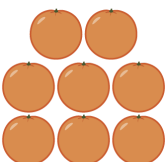


$$\boxed{} + \boxed{} = \boxed{}$$

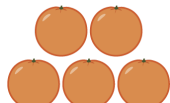
2 Write addition for the fruits!

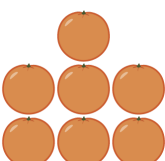




$$\boxed{} + \boxed{} = \boxed{}$$

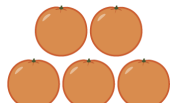
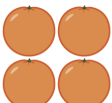
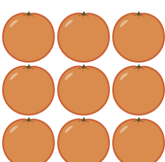




$$\boxed{} + \boxed{} = \boxed{}$$



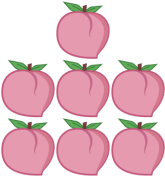


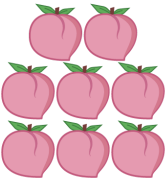
$$\boxed{} + \boxed{} = \boxed{}$$

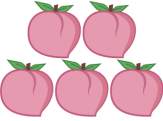




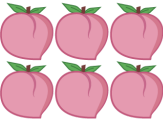
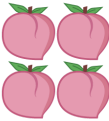
$$\boxed{} + \boxed{} = \boxed{}$$

3 Write addition for the fruits!


 + 
 =

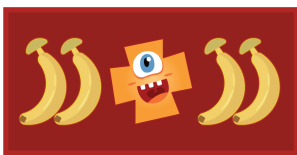

 + 
 =


 + 
 =

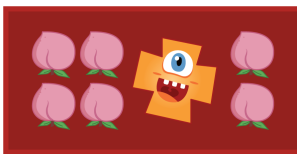

 + 
 =

4 Let's match!

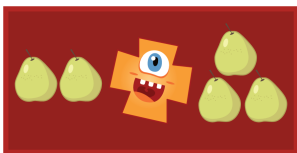
1.



2.



3.



A.



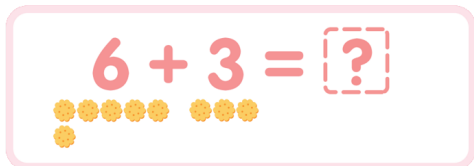
B.



C.



5 How many cookies are there in total?



A.



B.



C.

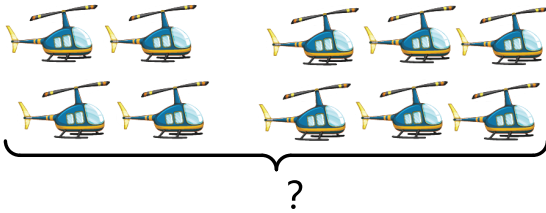


6 Write an addition sentence!



$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

7 How many helicopters are here?



$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad}$$

8 There are _____ potatoes in total.



9 How many buttons are there on two snowmen?

_____ + _____ = _____



10 Let's add!

(1) $2 + 1 =$ _____

(2) $3 + 4 =$ _____

(3) $4 + 2 =$ _____

(4) $4 + 4 =$ _____

(5) $2 + 7 =$ _____

(6) $5 + 5 =$ _____

(7) $3 + 6 =$ _____

(8) $5 + 2 =$ _____

(9) $4 + 5 =$ _____

(10) $2 + 6 =$ _____

11 Subtract with fruits!



$$\square - \square = \square$$



$$\square - \square = \square$$



$$\square - \square = \square$$



$$\square - \square = \square$$

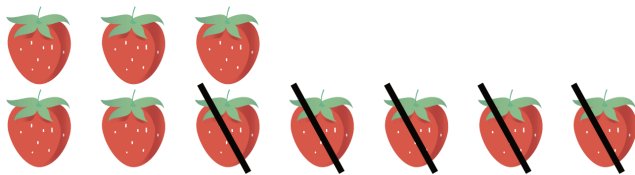
12 Subtract with fruits!



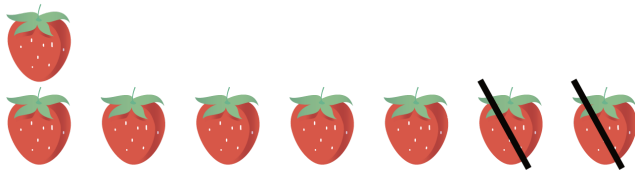
$$\boxed{} - \boxed{} = \boxed{}$$



$$\boxed{} - \boxed{} = \boxed{}$$

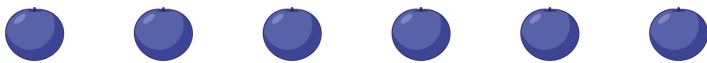


$$\boxed{} - \boxed{} = \boxed{}$$



$$\boxed{} - \boxed{} = \boxed{}$$

13 Cross off some fruits and do subtraction.



$$\square - 4 = \square$$



$$\square - 5 = \square$$

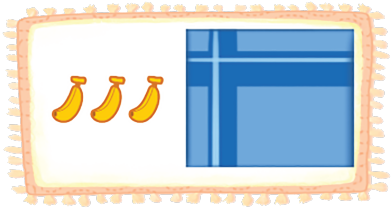


$$\square - 3 = \square$$



$$\square - 6 = \square$$

14 How many bananas are covered by the cloth?

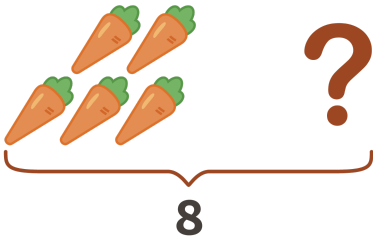


A. 5

B. 6

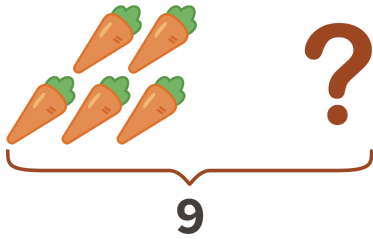
C. 8

15



$$? = \underline{\hspace{2cm}}.$$

16



$$? = \underline{\hspace{2cm}}.$$

Day 3

1 Count the number of flowers.



A. 10

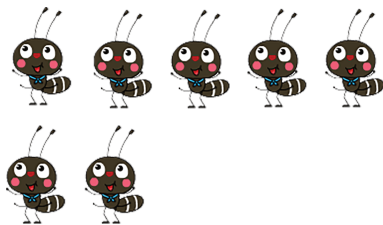
B. 9

C. 8

D. 7

E. 6

2 Count the number of ants.

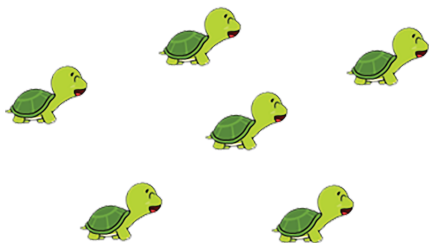


A. 7

B. 8

C. 9

3 Count the number of turtles.

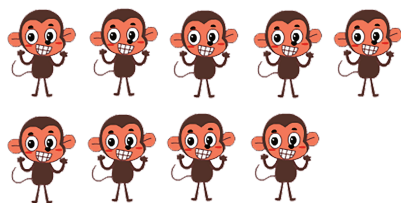


A. 5

B. 6

C. 7

4 Count the number of monkeys.



A. 8

B. 9

C. 10

5 Count the number of eyes.



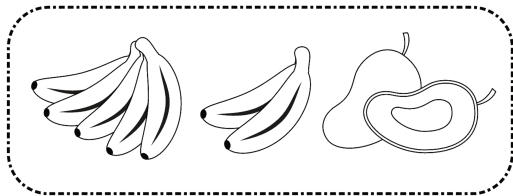
A. 2

B. 3

C. 6

D. 9

6 Count the number of bananas.



A. 6

B. 7

C. 8

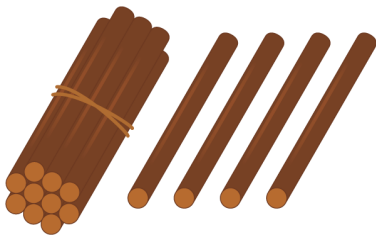
D. 5

E. 2

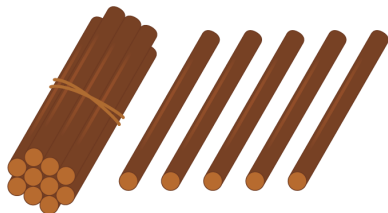
7



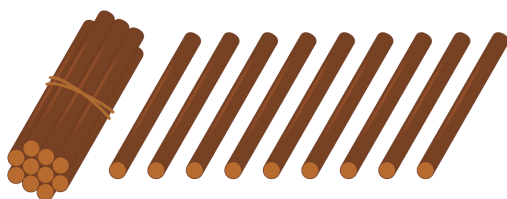
8



9



10



_____ .

11

Count the number of  in the following picture.



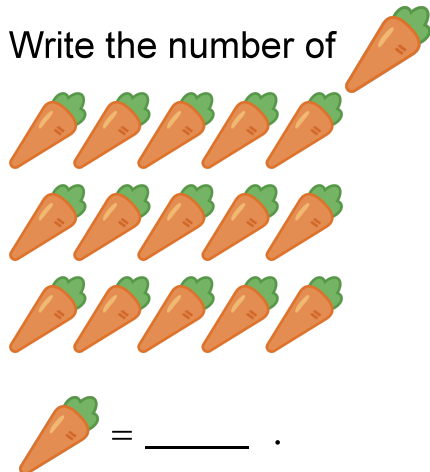
A. 6

B. 7

C. 8

D. 9

- 12 Write the number of  in the following figure.



- 13 How many shells are in the following figure?



A. 10

B. 12

C. 14

14 There are _____ penguins dancing.



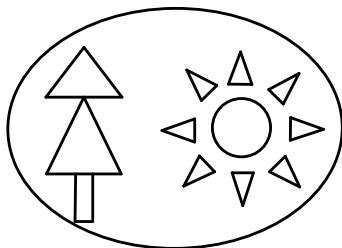
15 How many dogs are in the following figure? Circle the correct number!



15 16 17

Day 4

- 1 Count the number of triangles in the picture.



A. 8

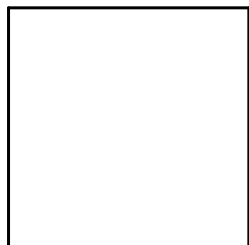
B. 9

C. 10

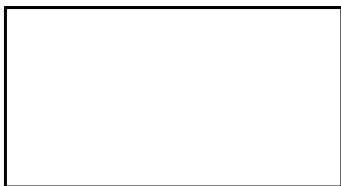
D. 11

E. 12

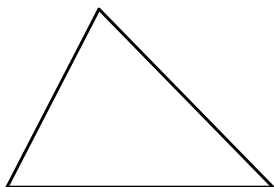
- 2 How many sides are there in the square below?



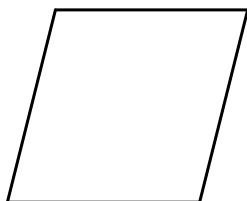
3 How many sides are there in the rectangle below?



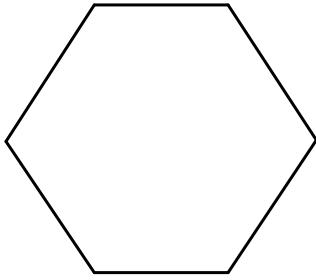
4 How many sides are there in the triangle below?



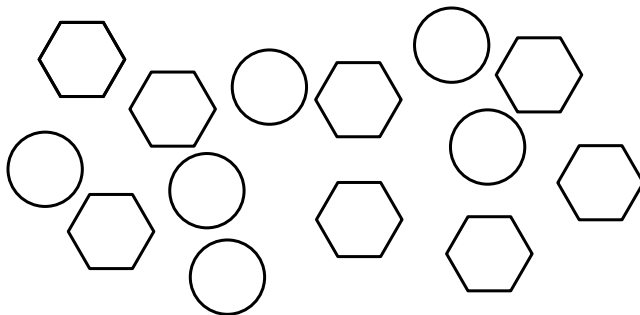
5 How many sides are there in the following figure below?



6 How many sides are there in the figure below?

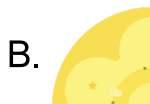


7 How many circles are there in the following figure?

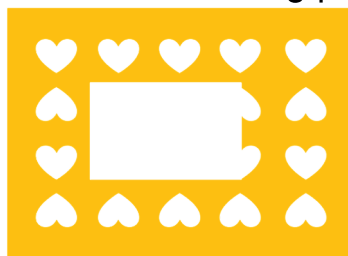


Day 5

1 Which of the following is the missing piece of the donut?



2 There is a missing piece of the following figure. Find the missing piece!



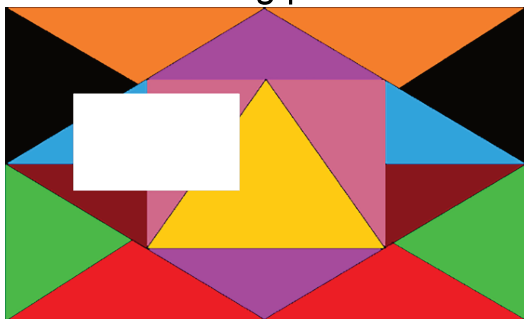
3 Find the missing piece in the following figure!



4 Find the missing piece of the following figure!



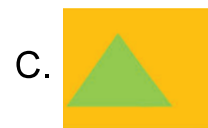
5 Find the missing piece of the following figure!



6 Find the missing piece in the following figure!

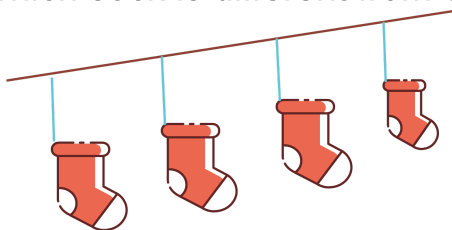


7 Which shape can be formed with the two pieces below?

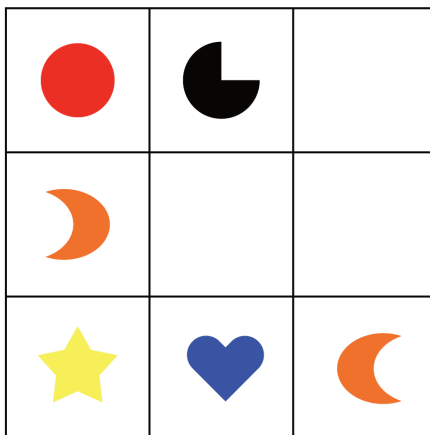
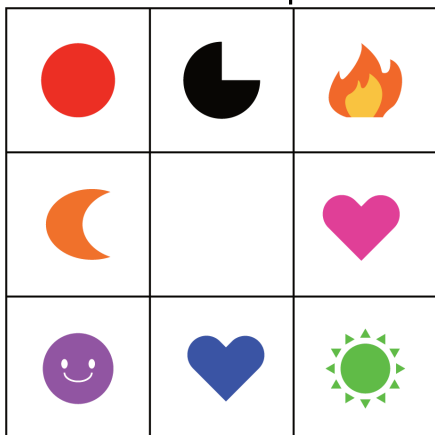


Day 6

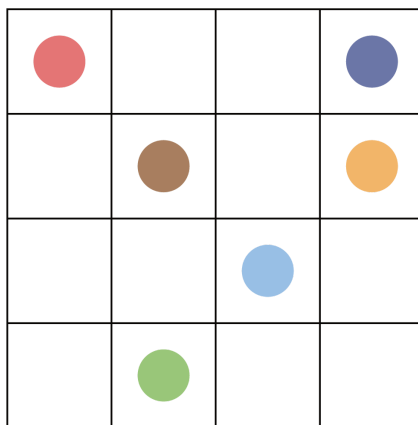
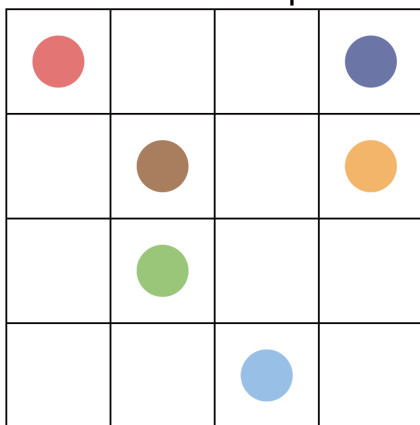
1 Which sock is different from others?



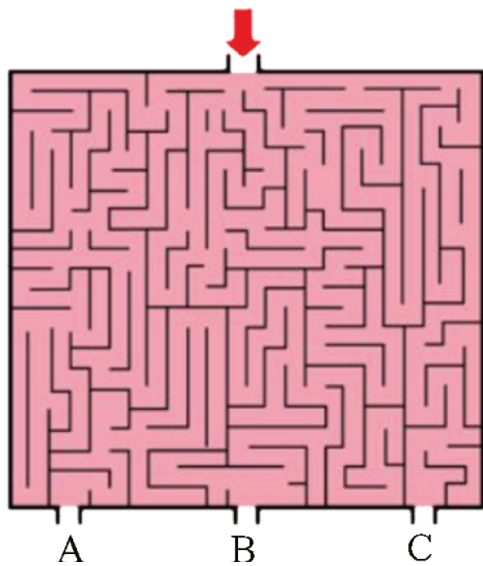
2 Observe the two pictures and find the differences. Circle them in the right picture.



3 Observe the two pictures and find the differences. Circle them in the right picture.



4 Challenge time! Which is the correct exit of this maze?

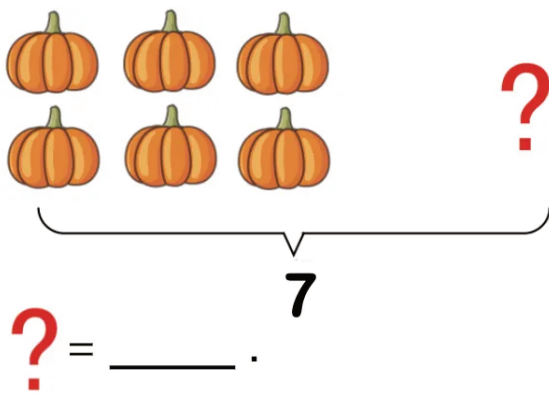


A. A

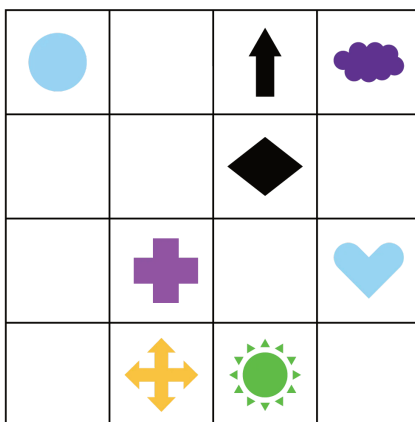
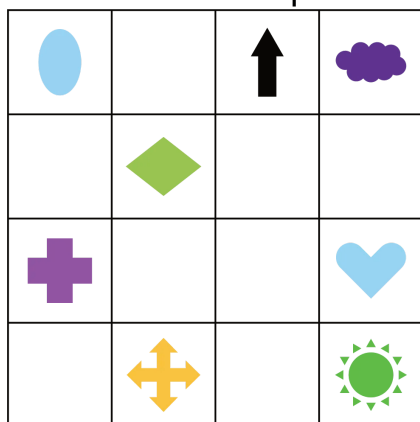
B. B

C. C

5

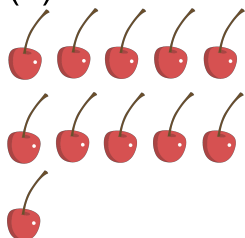


6 Observe the two pictures and find the differences. Circle them in the right picture.



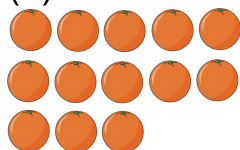
7 Eddie has many fruits! Help him count each kind of fruit.

(1)



There are _____ cherries.

(2)



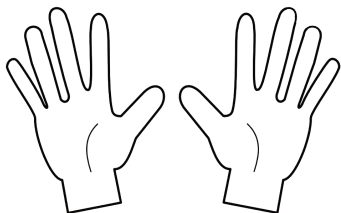
There are _____ oranges.

(3)



There are _____ apples.

8 Count the number of fingers!



A. 3

B. 5

C. 9

D. 10

9



?



9

? = ____ .

10 Let's subtract!

(1) $7 - 4 = \underline{\quad}$

(2) $4 - 2 = \underline{\quad}$

(3) $9 - 4 = \underline{\quad}$

(4) $10 - 3 = \underline{\quad}$

(5) $8 - 5 = \underline{\quad}$

(6) $7 - 3 = \underline{\quad}$

(7) $10 - 7 = \underline{\quad}$

(8) $7 - 1 = \underline{\quad}$

(9) $9 - 5 = \underline{\quad}$

(10) $8 - 7 = \underline{\quad}$

Day 2

1. $3 + 1 = 4$
 $2 + 3 = 5$
 $4 + 2 = 6$
 $5 + 1 = 6$
2. $2 + 7 = 9$
 $4 + 4 = 8$
 $5 + 2 = 7$
 $5 + 4 = 9$
3. $1 + 7 = 8$
 $2 + 8 = 10$
 $5 + 3 = 8$
 $6 + 4 = 10$
4. BCA
5. C
6. 3 Alternative 2 ; 2 Alternative 3 ; 5
7. 4 Alternative 6 ; 6 Alternative 4 ; 10
8. 8
9. 2 Alternative 3 ; 3 Alternative 2 ; 5
10. (1) 3
(2) 7
(3) 6
(4) 8
(5) 9
(6) 10
(7) 9
(8) 7
(9) 9
(10) 8
11. $5 - 1 = 4$
 $6 - 3 = 3$
 $7 - 3 = 4$
 $10 - 2 = 8$

12. $8 - 3 = 5$
 $7 - 4 = 3$
 $10 - 5 = 5$
 $8 - 2 = 6$
13. $6 - 4 = 2$
 $9 - 5 = 4$
 $10 - 3 = 7$
 $7 - 6 = 1$
14. A
15. 3
16. 4

Day 3

1. C
2. A
3. B
4. B
5. D
6. B
7. 11
8. 14
9. 15
10. 19
11. D
12. 15
13. B
14. 20



15 16 17

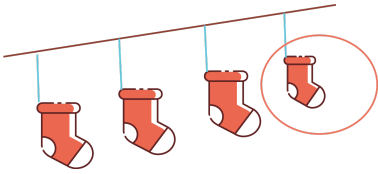
Day 4

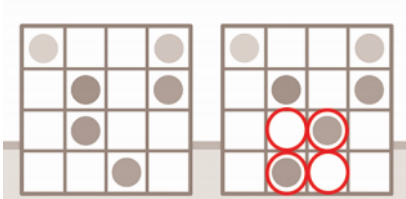
1. C
2. 4
3. 4
4. 3
5. 4
6. 6
7. 6

Day 5

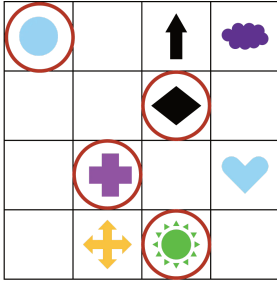
1. A
2. C
3. C
4. B
5. B
6. B
7. C

Day 6

1. 
2.

3. 
4. C
5. 1

6.



7. 11 ; 13 ; 14

8. D

9. 3

10. (1) 3
 (2) 2
 (3) 5
 (4) 7
 (5) 3
 (6) 4
 (7) 3
 (8) 6
 (9) 4
 (10) 1



 <https://www.thethinkacademy.com/>