







## 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。

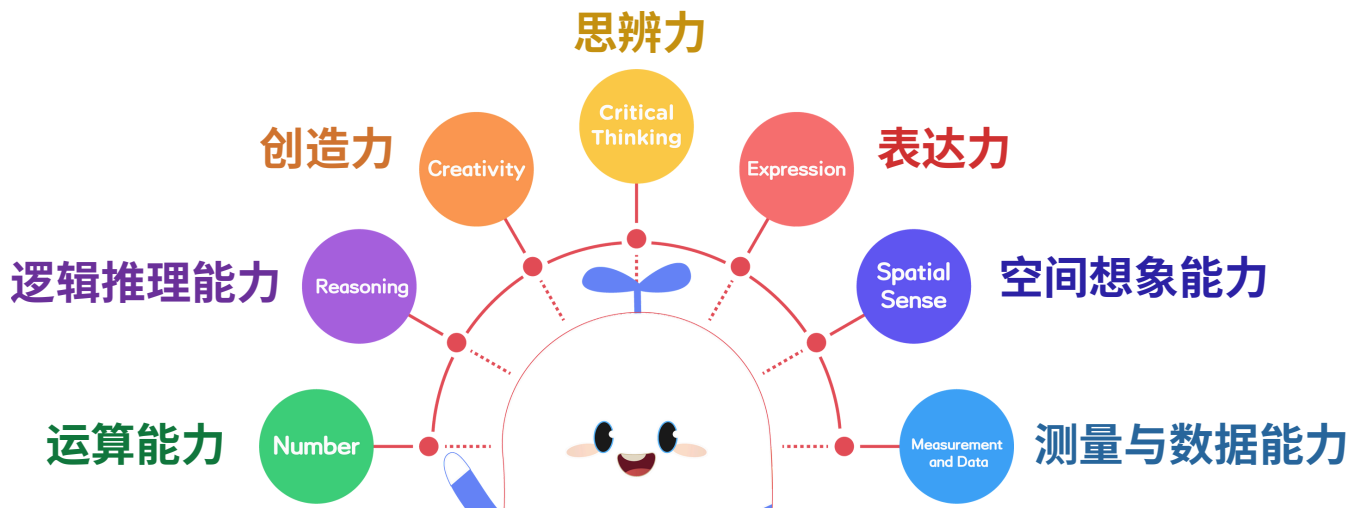
**Challenge体系**：Challenge课程在Honors课程的基础之上增加了竞赛拓展，对标Math Kangaroo的考纲，帮助孩子从小挑战数学竞赛的奖项。

| 幼小阶段学习规划                             |                        |             |              |              |
|--------------------------------------|------------------------|-------------|--------------|--------------|
| 班级                                   | Pre-K                  | K           | G1           | G2           |
| <b>Honors</b><br>超前一年，稳固全A，直通顶班      | Pre-K<br>Think Ability | K Honors    | G1 Honors    | G2 Honors    |
| <b>Challenge</b><br>竞赛启蒙，加速两年，AP满贯   |                        | K Challenge | G1 Challenge | G2 Challenge |
| <b>Competition</b><br>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<br>加快校内进度<br>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

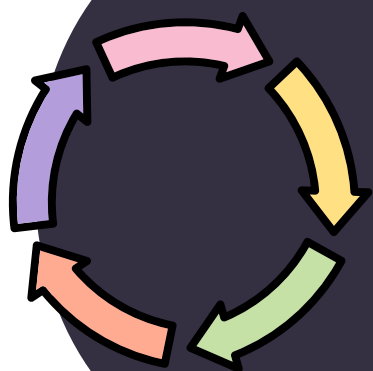
## 授课老师为孩子定制学习规划， 全程跟踪学习进度

- 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**

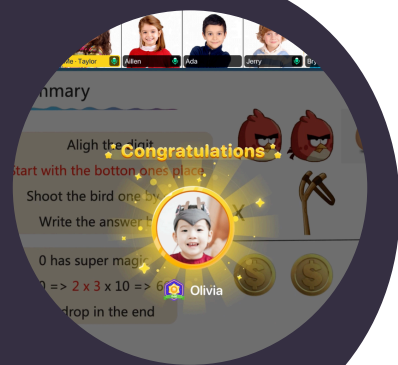


## 课程亮点

# 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**。



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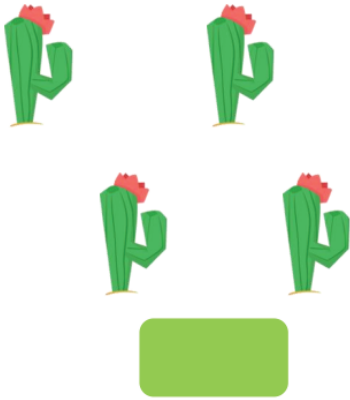
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# Chapter 1 Count I

1 Count!

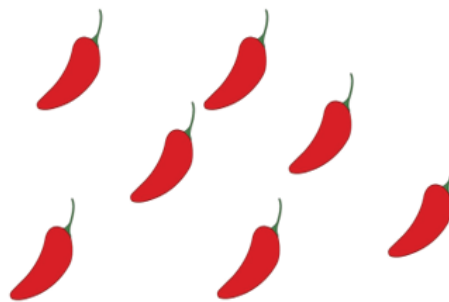


2 Count!





3 Count!



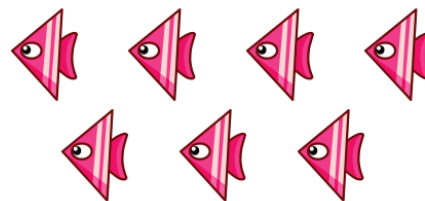
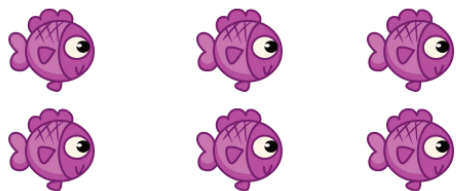
4 Count!



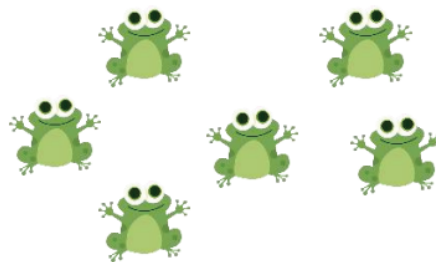




5 Count!



6 Count!

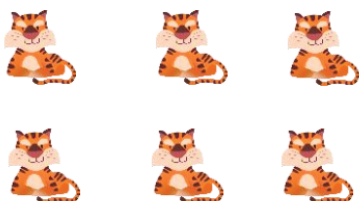




7 Count!



8 Count !

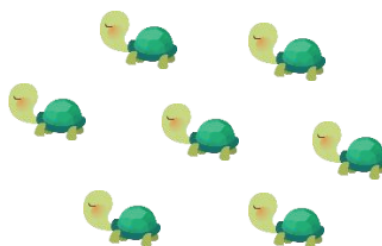




9 Count !



10 Count!





11 Count!

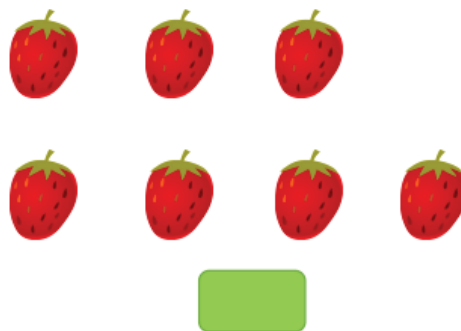
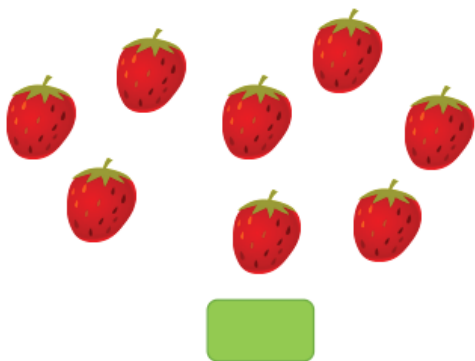


12 Count!





13 Count!



14 Count!

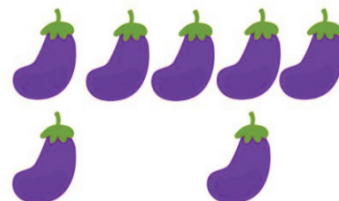




15 Count!



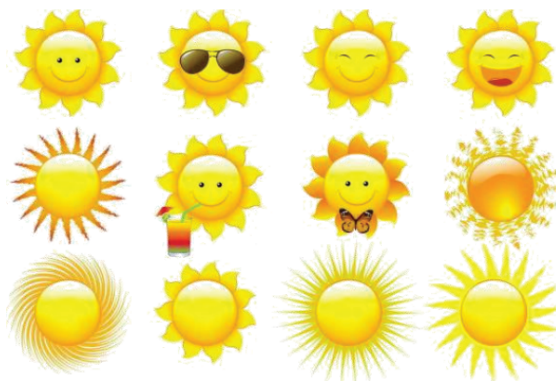
16 Count!



**17** Count!**18** Count!



**19** Count!



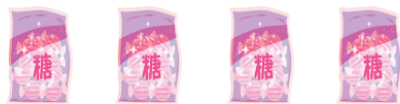
**20** Count!







21 Count!

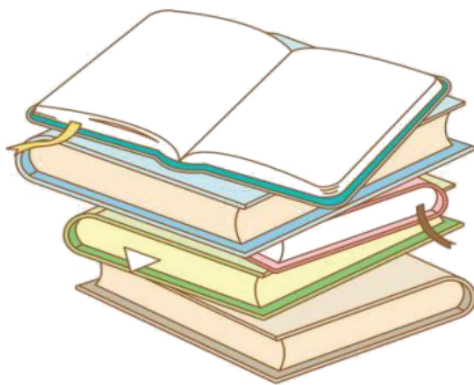


22 Count!





23 Count!



24 Count!





25 Count!



26 Count!





27 Count!



28 Count!





**29** Count!



**30** Count!





**31** How many pairs of heels are there?

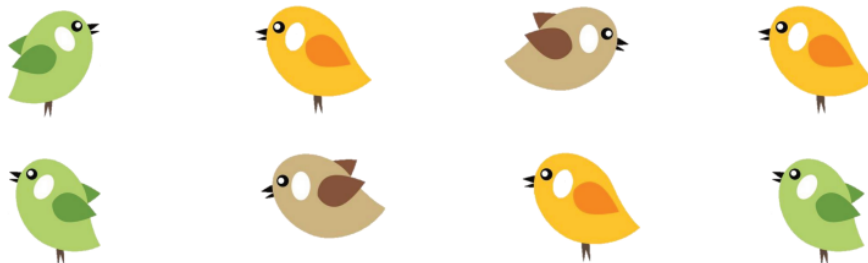


**32** How many animals are there?

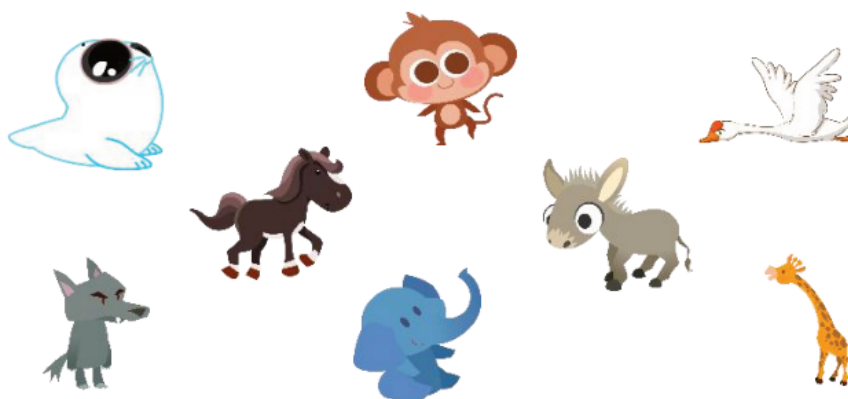




33 How many birds are there?



34 How many animals are there?

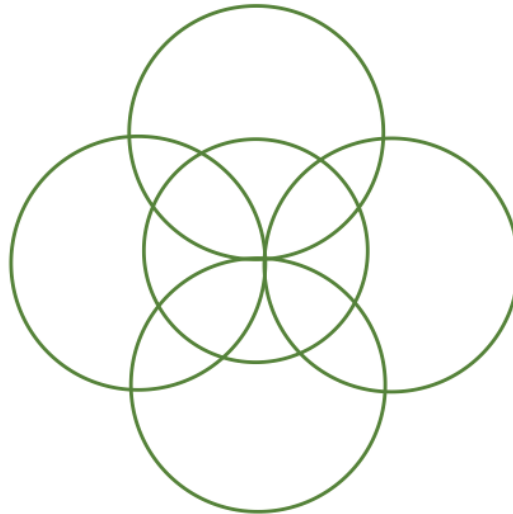




**35** How many patterns are there?



**36** How many circles are there?



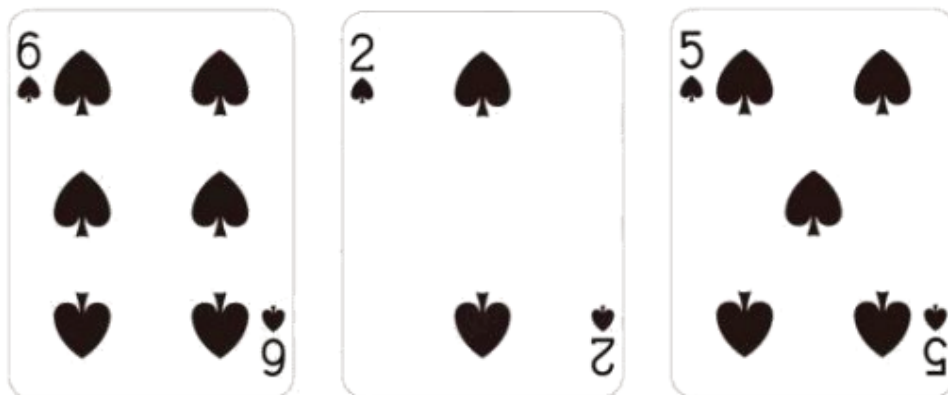
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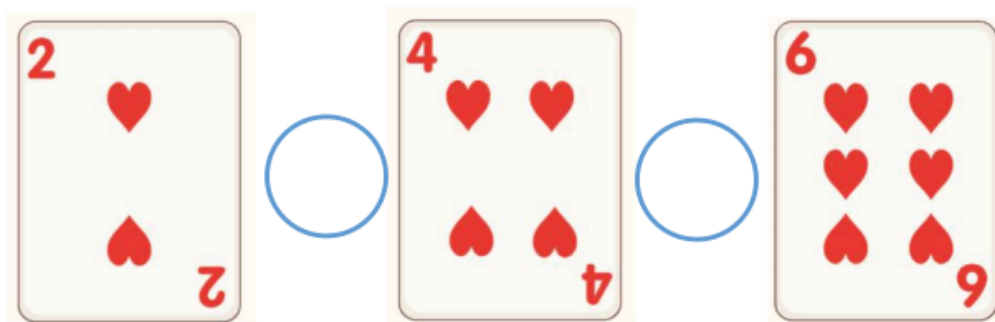


## Chapter 2 Compare

1 Circle the card with the largest number!



2 Fill "<" or ">" in each circle.





3 Which food on the right has the same number of oranges on the left?



4 Who has more, and how many more?





5 Who has more, and how many more?

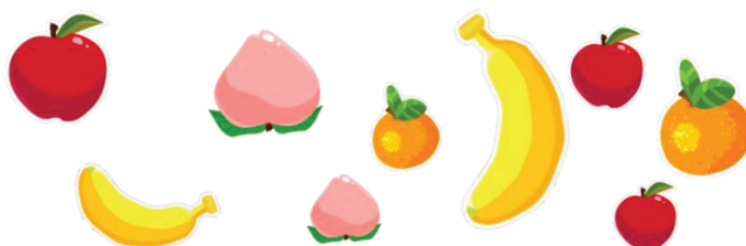


6 How many five-pointed stars can there be in the box?

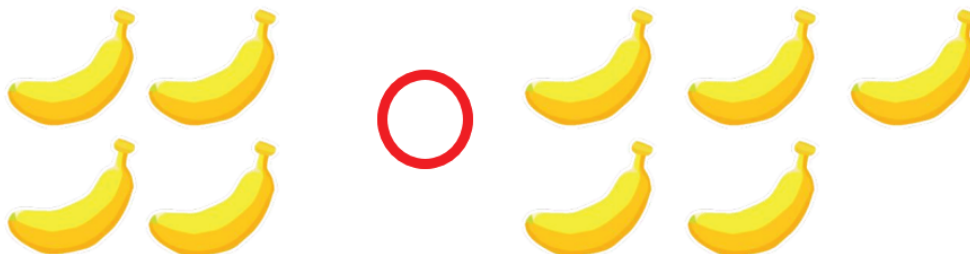




7 Which fruit is the most?



8 Fill ">" or "<" in each circle.





9 Which row has more, and how many more?



10 Which row has more apples?





**11** Which food has the same number?



**12** How many oranges and strawberries are there? Which fruit has more?

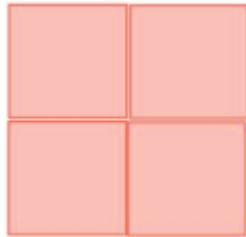




13 Which tree has the most apples? How many?

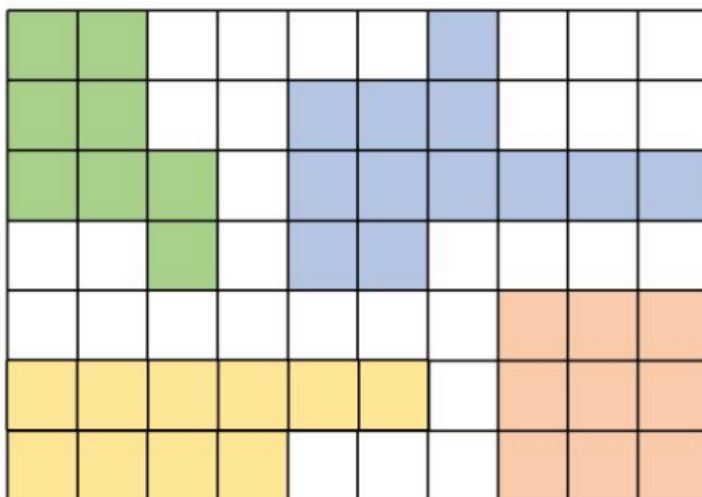


14 Which cookies has more?





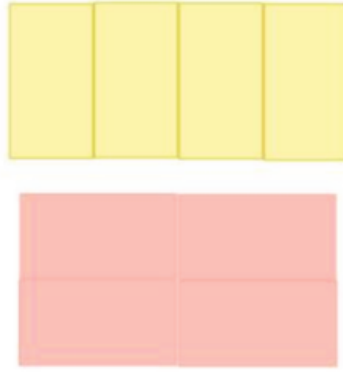
15 Which color of the block is the largest?







16 Which color of the figure is the largest?



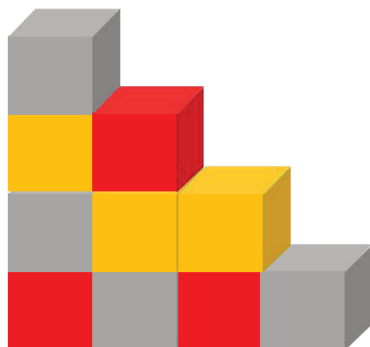
17 Which color of the figure is the largest?



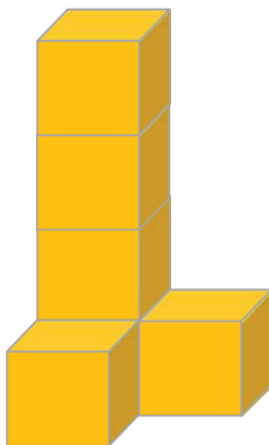


## Chapter 3 Count II

1 How many cubes are there?

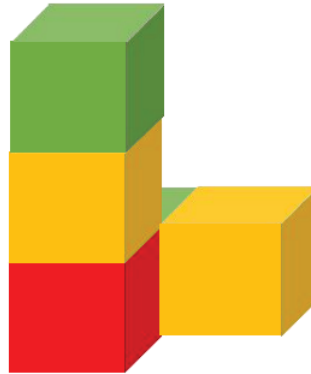


2 How many cubes are there?

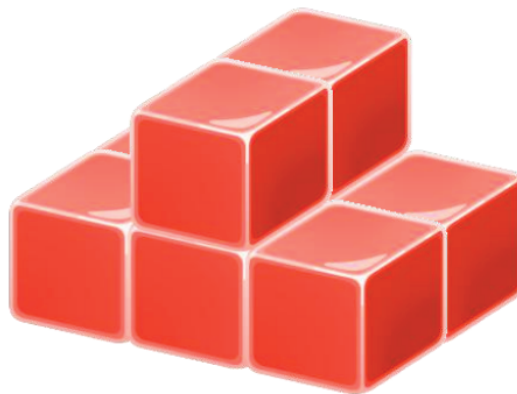




3 How many cubes are there?

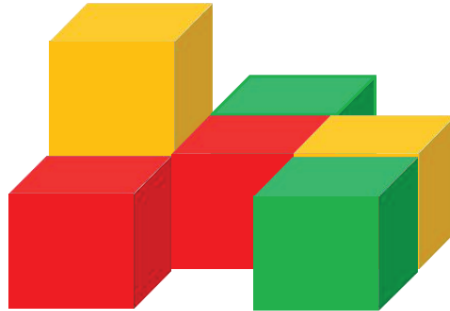


4 How many cubes are there?





5 How many cubes are there?

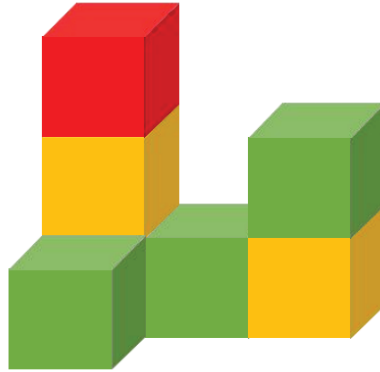


6 How many cubes are there?





7 How many cubes are there?

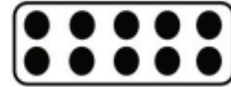
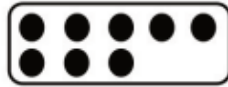


8 There are \_\_\_\_\_ kinds of fruits, and \_\_\_\_\_ kinds of vegetables.





**9** Count the number of each item and then match!



**10** How many bubbles are left if removing all the yellow bubbles?

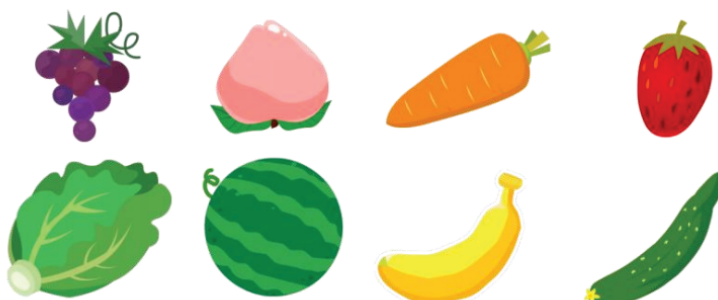




11 How many triangles are there?

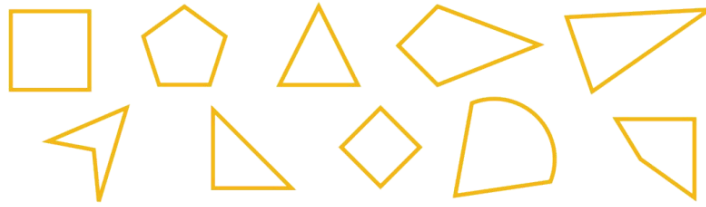


12 There are \_\_\_\_\_ kinds of fruits, and \_\_\_\_\_ kinds of vegetables.

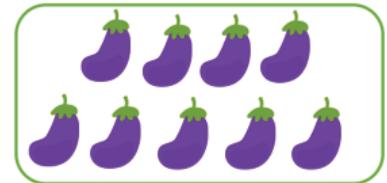
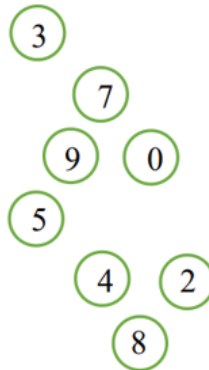
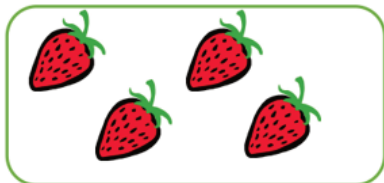




**13** How many triangles are there?



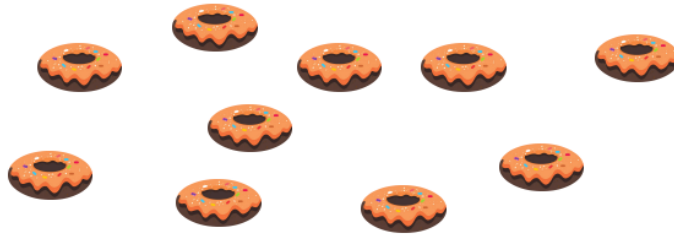
**14** Count the number of each item and then match!







**15** Circle seven donuts!



**16** How many digit 5 are there? Circle them.

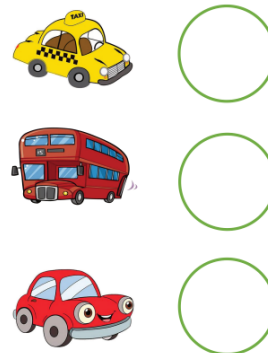
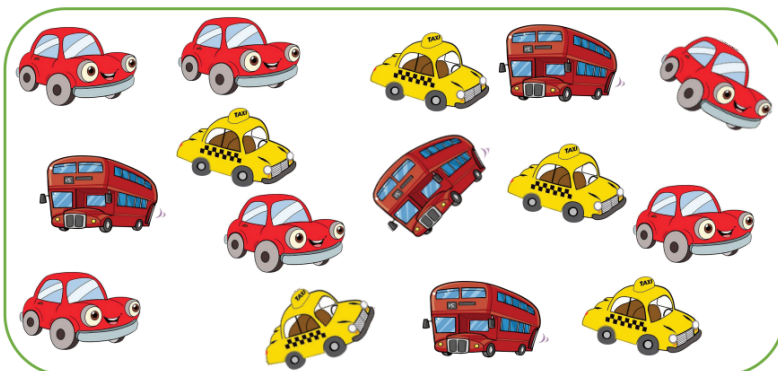




17 How many cars are there?



18 How many toy cars are there?

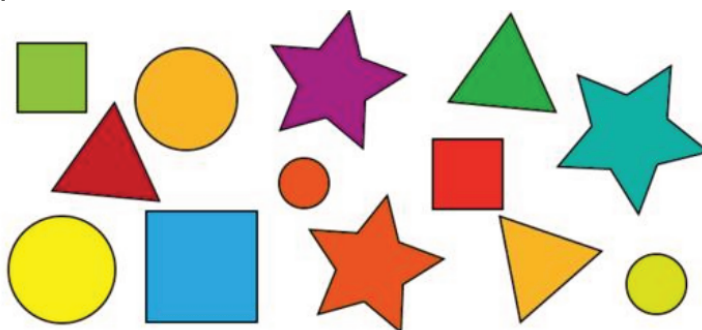




19 Which fruit has 5? Find it.



20 How many five-pointed stars are there?





- 21 Record the number of each animal using ○. Which animal is the most and which is the least?



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

- 22 Record the number of each fruit!



|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |



## Chapter 4 Addition within 10

1 Cross off some fruits and do subtraction.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

2 Write addition with cows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



3  $1 + 8 =$

$1 + 7 =$

$1 + 6 =$

$4 + 1 =$

$4 + 2 =$

$4 + 3 =$

$2 + 5 =$

$1 + 1 =$

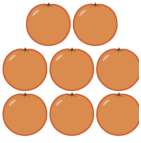
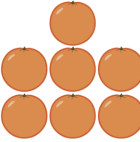
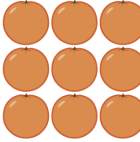
$1 + 3 =$

$4 + 2 =$

$3 + 1 =$

$3 + 2 =$

4 Write addition with fruits.

|                                                                                                             |   |                                                                                                               |   |                                                                                                               |
|-------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|
| <br><input type="text"/> | + | <br><input type="text"/>   | = | <br><input type="text"/>   |
| <br><input type="text"/> | + | <br><input type="text"/> | = | <br><input type="text"/> |

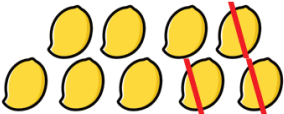


5 Write addition with balloons.

|                                                                                                                                                                      |   |                                                                                                                                                                      |   |                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | + | <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | = | <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> |
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|                                                                                                                                                                       |   |                                                                                                                                                                        |   |                                                                                                                                                                        |
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| <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | + | <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | = | <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

6 Write subtraction with fruits.

|                                                                                                                                                                        |   |                                                                                 |   |                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|
| <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | - | <input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | = | <input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> |
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|                                                                                                                                                                         |   |                                                                                 |   |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|
| <br><input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | - | <input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> | = | <input style="width: 40px; height: 20px; border: 1px solid #ccc;" type="text"/> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------|



**7** How many buttons are there on two snowmen?

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



**8**  $3 + 6 =$

$1 + 1 =$

$3 + 4 =$

$5 + 1 =$

$4 + 4 =$

$2 + 5 =$

$2 + 3 =$

$1 + 7 =$

$8 + 1 =$

$1 + 4 =$

$3 + 5 =$

$2 + 6 =$





9  $5 - 4 =$

$8 - 2 =$

$6 - 5 =$

$4 - 2 =$

$7 - 3 =$

$9 - 4 =$

$5 - 5 =$

$7 - 4 =$

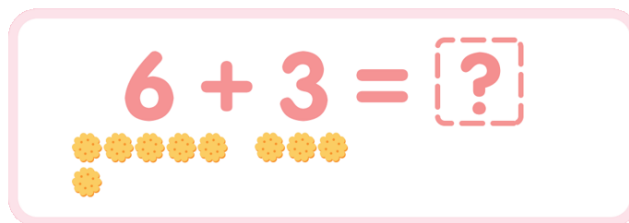
$9 - 1 =$

$6 - 2 =$

$9 - 2 =$

$9 - 6 =$

10 How many cookies are there in total?



A. 7

B. 8

C. 9



11  $5 + 1 =$

$1 + 6 =$

$2 + 3 =$

$1 + 1 =$

$6 + 3 =$

$3 + 4 =$

$2 + 2 =$

$4 + 4 =$

$3 + 5 =$

$1 + 8 =$

$3 + 5 =$

$2 + 6 =$

12 Write addition with fruits.

|                                                                                                             |   |                                                                                                               |   |                                                                                                               |
|-------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|
| <br><input type="text"/> | + | <br><input type="text"/>   | = | <br><input type="text"/>   |
| <br><input type="text"/> | + | <br><input type="text"/> | = | <br><input type="text"/> |



$13 \quad 7 - 1 =$

$6 - 2 =$

$6 - 5 =$

$8 - 2 =$

$7 - 3 =$

$4 - 1 =$

$10 - 5 =$

$10 - 4 =$

$9 - 9 =$

$5 - 4 =$

$1 - 1 =$

$8 - 8 =$



**14**  $2 + 1 =$

$1 + 3 =$

$2 + 4 =$

$6 + 3 =$

$2 + 3 =$

$3 + 5 =$

$2 + 5 =$

$1 + 4 =$

$3 + 1 =$

$1 + 2 =$

$3 + 3 =$

$2 + 2 =$



$15 \quad 3 + 3 =$

$1 + 1 =$

$2 + 2 =$

$7 + 1 =$

$4 + 3 =$

$5 + 3 =$

$1 + 3 =$

$7 + 2 =$

$4 + 4 =$

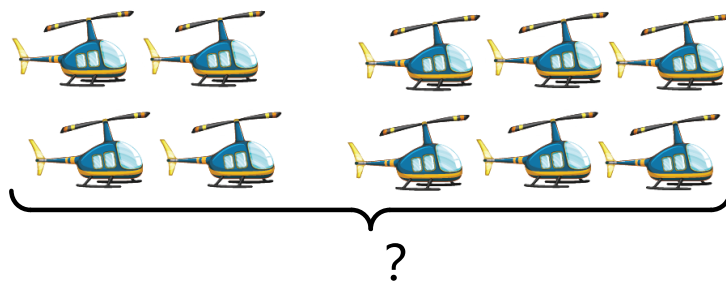
$2 + 6 =$

$1 + 6 =$

$2 + 1 =$



**16** How many helicopters are here?



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

**17**  $5 + 3 =$

$1 + 2 =$

$6 + 3 =$

$4 + 3 =$

$2 + 2 =$

$2 + 3 =$

$1 + 5 =$

$7 + 2 =$

$4 + 4 =$

$2 + 4 =$

$3 + 3 =$

$1 + 1 =$



**18**  $3 - 2 =$

$10 - 4 =$

$5 - 3 =$

$5 - 2 =$

$3 - 3 =$

$7 - 4 =$

$4 - 3 =$

$8 - 4 =$

$9 - 2 =$

$4 - 1 =$

$7 - 4 =$

$8 - 7 =$

**19** Write addition with vegetables.

|                                                                                                             |   |                                                                                                               |   |                      |                      |
|-------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|---|----------------------|----------------------|
| <br><input type="text"/> | + | <br><input type="text"/>   | = | <input type="text"/> | <input type="text"/> |
| <br><input type="text"/> | + | <br><input type="text"/> | = | <input type="text"/> | <input type="text"/> |



20  $3 + 3 =$

$2 + 3 =$

$2 + 2 =$

$5 + 1 =$

$2 + 1 =$

$2 + 5 =$

$2 + 5 =$

$5 + 4 =$

$3 + 5 =$

$3 + 6 =$

$1 + 3 =$

$4 + 4 =$





$21 \quad 10 - 1 =$

$5 - 2 =$

$1 - 1 =$

$6 - 2 =$

$9 - 3 =$

$9 - 3 =$

$10 - 5 =$

$8 - 4 =$

$3 - 2 =$

$7 - 4 =$

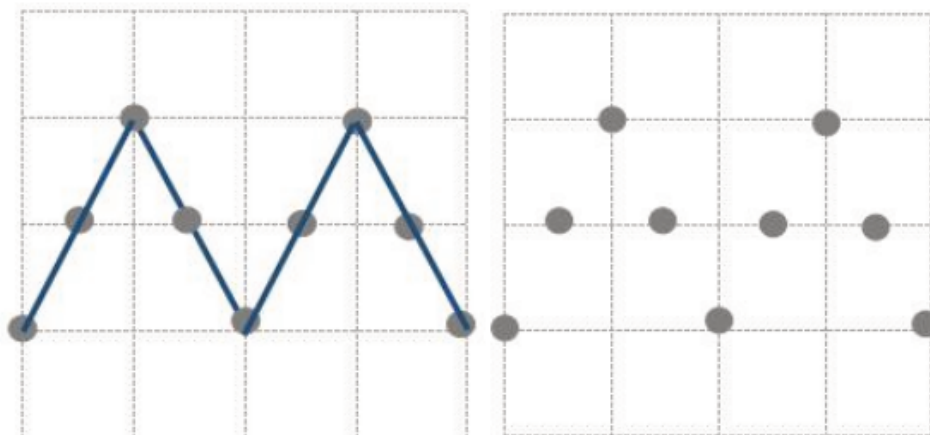
$2 - 1 =$

$9 - 6 =$

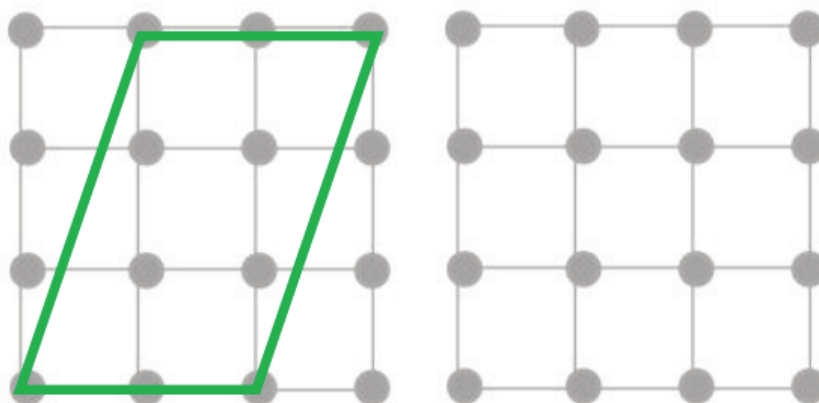


## Chapter 5 Draw Shapes

1 Can you copy down the left picture?

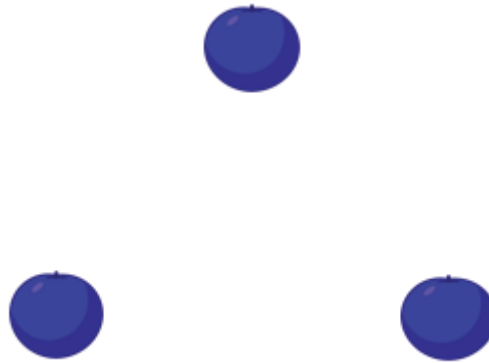


2 Can you copy down the left picture?

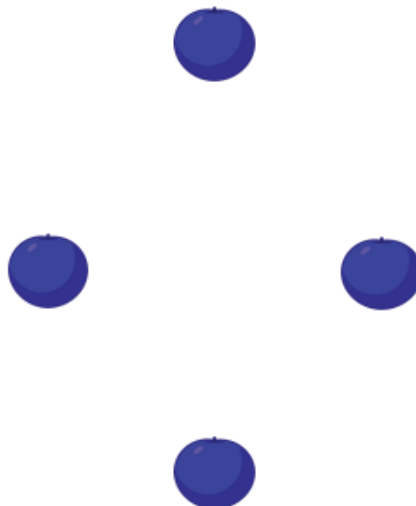




3 What shape can you form by connecting the blueberries ?

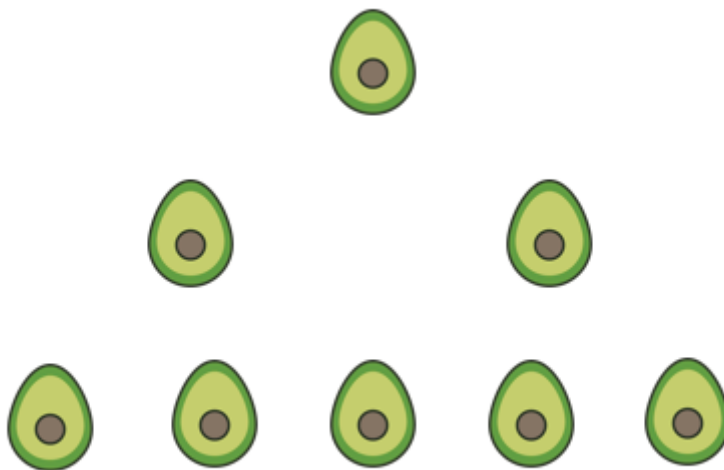


4 What shape can you form by connecting the blueberries ?

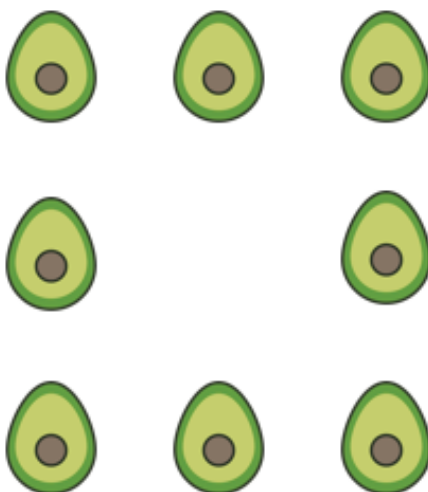




**5** What shape can you form by connecting the kiwi fruits ?

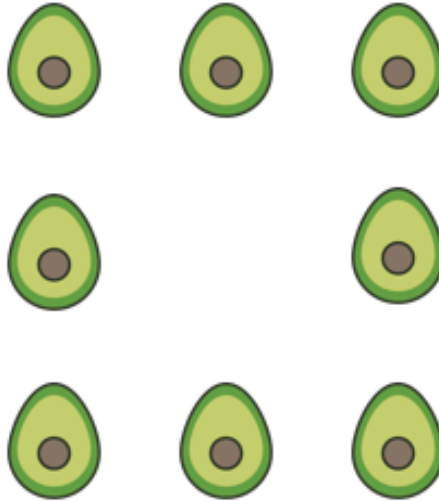


**6** What shape can you form by connecting the kiwi fruits ?

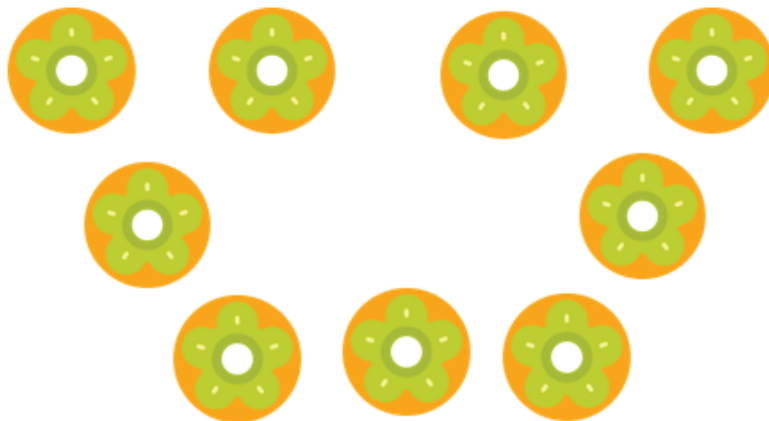




7 What shape can you form by connecting the kiwi fruits ?

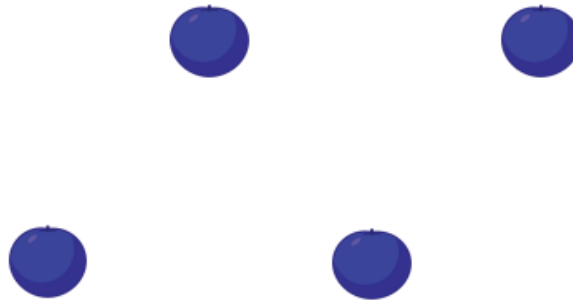


8 What shape can you form by connecting the cakes ?





9 What shape can you form by connecting the blueberries ?

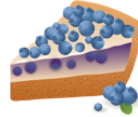
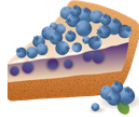
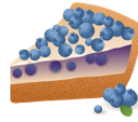
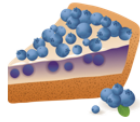


10 What shape can you form by connecting the ice cream cones?





**11** What shape can you form by connecting the cakes?

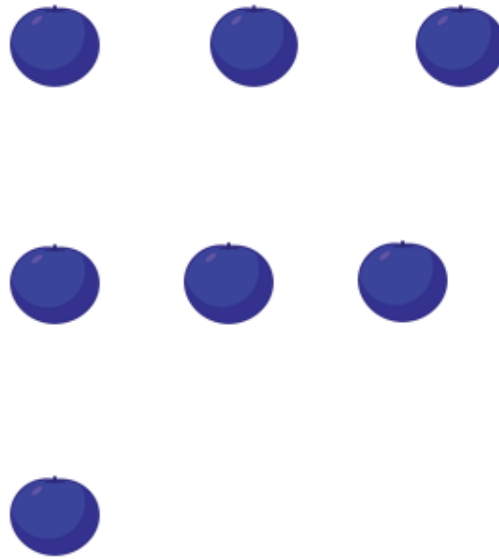


**12** Which letter can you form by connecting the blueberries?

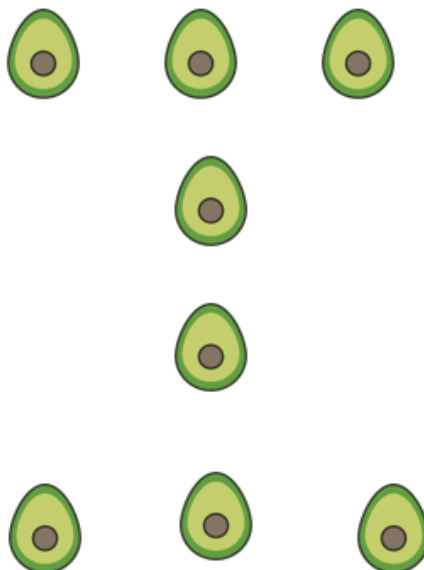




**13** Which letter can you form by connecting the blueberries?



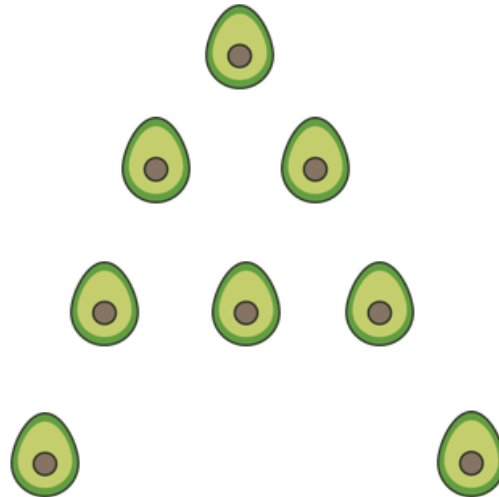
**14** Which letter can you form by connecting the kiwi fruits?



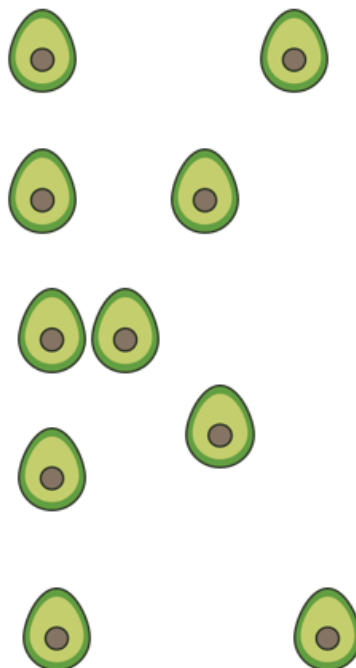




**15** Which letter can you form by connecting the kiwi fruits?

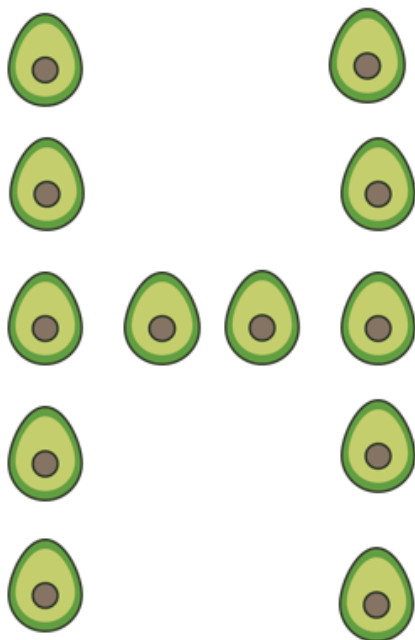


**16** Which letter can you form by connecting the kiwi fruits?

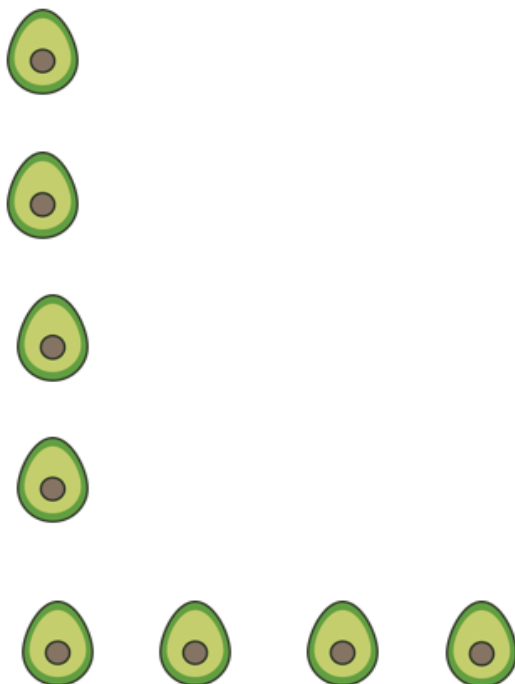




**17** Which letter can you form by connecting the kiwi fruits?



**18** Which letter can you form by connecting the kiwi fruits?





19 Which letter can you form by connecting the cakes?

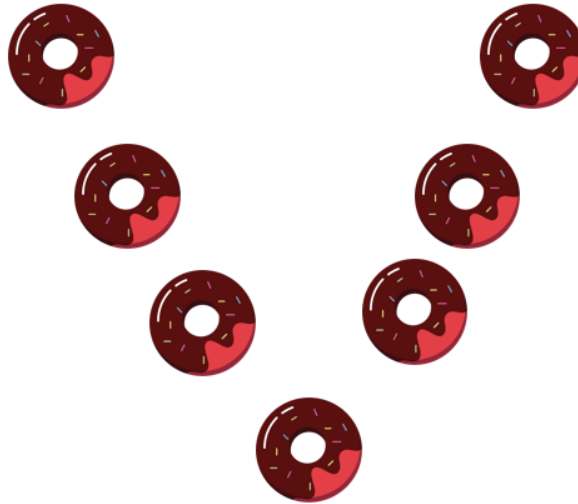


20 Which letter can you form by connecting the flowers?

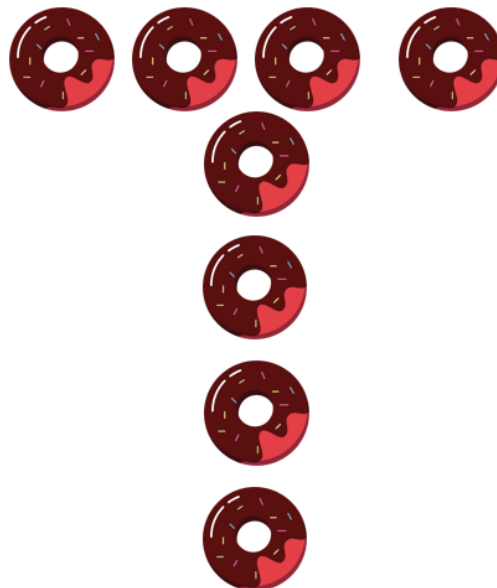




21 Which letter can you form by connecting the donutss?

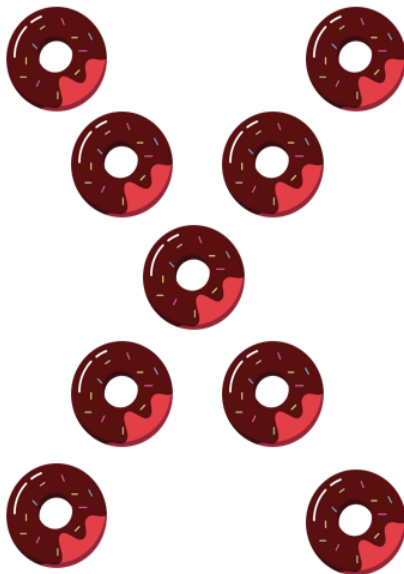


22 Which letter can you form by connecting the donuts?

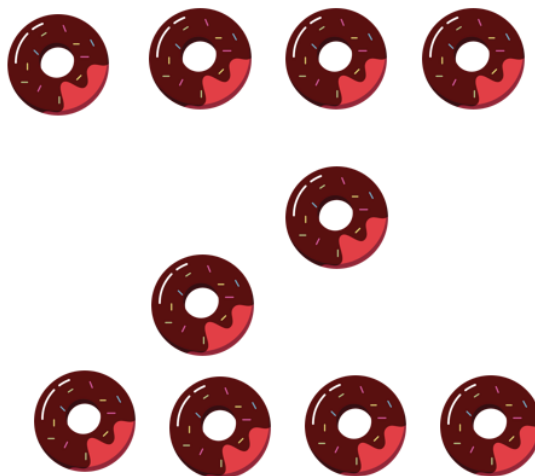




23 Which letter can you form by connecting the donuts?

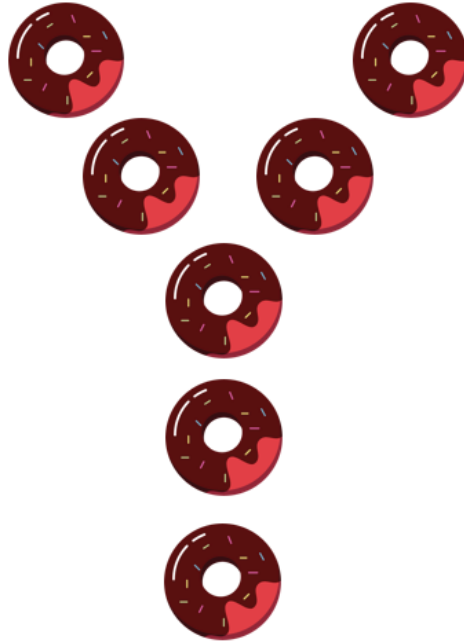


24 Which letter can you form by connecting the donuts?

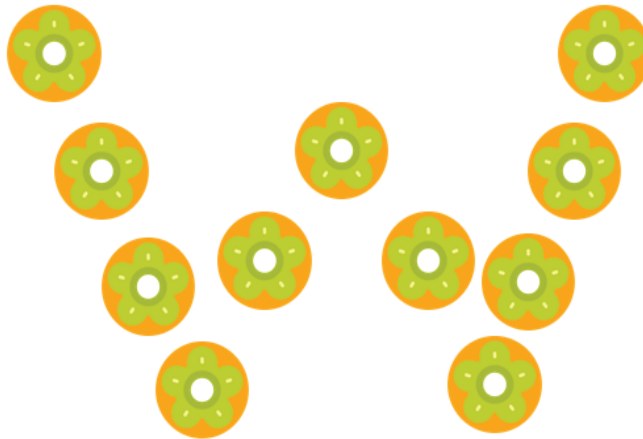




**25** Which letter can you form by connecting the donuts?



**26** Which letter can you form by connecting the cakes?





27 Which letter can you form by connecting the flowers?





## Chapter 6 Subtraction within 10

1  $5 + 3 =$

$8 - 2 =$

$6 + 3 =$

$1 + 3 =$

$9 - 3 =$

$8 - 1 =$

$5 + 4 =$

$4 + 1 =$

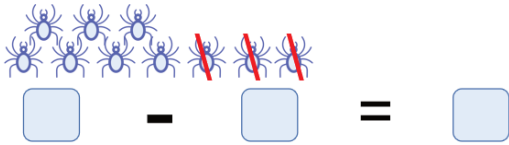
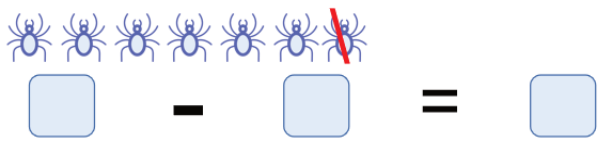
$9 - 8 =$

$7 - 4 =$

$1 + 2 =$

$7 + 1 =$

2 Write addition with spiders

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|





$$3 \quad 5 + 3 =$$

$$5 - 2 =$$

$$1 + 6 =$$

$$8 - 4 =$$

$$3 - 1 =$$

$$4 + 2 =$$

$$6 - 4 =$$

$$4 - 3 =$$

$$8 - 3 =$$

$$7 + 3 =$$

$$1 + 9 =$$

$$10 - 6 =$$



4  $5 - 3 =$

$7 - 5 =$

$7 - 4 =$

$3 + 2 =$

$3 - 2 =$

$5 - 2 =$

$6 - 3 =$

$4 - 1 =$

$4 - 3 =$

$10 - 5 =$

$1 - 1 =$

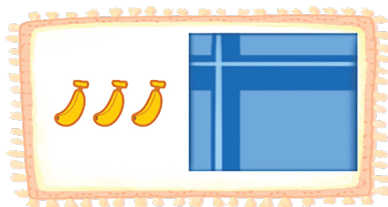
$8 + 1 =$



- 5 Cross off some fruits and do subtraction.

|  |  |
|--|--|
|  |  |
|--|--|

- 6 How many bananas are covered by the cloth?



A. 5

B. 6

C. 8



7  $6 + 1 =$

$5 + 2 =$

$2 + 7 =$

$2 - 1 =$

$9 - 3 =$

$3 - 2 =$

$7 - 4 =$

$5 - 1 =$

$4 - 1 =$

$6 - 3 =$

$1 + 6 =$

$8 - 5 =$

8 Cross off some ice-cream and do subtraction.

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|



$$9 \quad 3 + 3 =$$

$$7 - 2 =$$

$$1 + 1 =$$

$$4 + 4 =$$

$$7 - 5 =$$

$$8 - 2 =$$

$$9 - 1 =$$

$$6 - 5 =$$

$$4 + 3 =$$

$$9 - 3 =$$

$$6 - 1 =$$

$$8 + 1 =$$



10  $1 + 1 =$

$7 + 2 =$

$8 - 5 =$

$2 + 3 =$

$3 + 1 =$

$2 + 1 =$

$5 + 4 =$

$9 - 8 =$

$4 + 3 =$

$6 - 2 =$

$10 - 6 =$

$7 + 3 =$



$11 \quad 9 + 1 =$

$5 + 2 =$

$2 + 3 =$

$2 + 5 =$

$6 - 2 =$

$5 + 2 =$

$10 - 4 =$

$6 - 1 =$

$9 - 3 =$

$7 - 5 =$

$1 + 7 =$

$5 - 1 =$



**12** Cross off some fruits and do subtraction.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="display: flex; align-items: center; justify-content: center;"><div style="display: flex; gap: 5px;"></div><div style="margin: 0 10px;"><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div><div style="font-size: 24px; margin: 0 5px;">-</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;">1</div><div style="font-size: 24px; margin: 0 5px;">=</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div></div></div> | <div style="display: flex; align-items: center; justify-content: center;"><div style="display: flex; gap: 5px;"></div><div style="margin: 0 10px;"><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div><div style="font-size: 24px; margin: 0 5px;">-</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;">3</div><div style="font-size: 24px; margin: 0 5px;">=</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div></div></div> |
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**13** Cross off some fruits and do subtraction.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div style="display: flex; align-items: center; justify-content: center;"><div style="display: flex; gap: 5px;"></div><div style="margin: 0 10px;"><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div><div style="font-size: 24px; margin: 0 5px;">-</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;">3</div><div style="font-size: 24px; margin: 0 5px;">=</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div></div></div> | <div style="display: flex; align-items: center; justify-content: center;"><div style="display: flex; gap: 5px;"></div><div style="margin: 0 10px;"><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div><div style="font-size: 24px; margin: 0 5px;">-</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;">4</div><div style="font-size: 24px; margin: 0 5px;">=</div><div style="border: 1px solid black; width: 40px; height: 25px; background-color: #d9e1f2; display: flex; align-items: center; justify-content: center;"> </div></div></div> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|





- 14 There are many butterflies flying in the sky. Count it.



blue butterflies \_\_\_\_\_

red butterflies \_\_\_\_\_

green butterflies \_\_\_\_\_

- 15 Cross off some balloons and do subtraction.

|                                                                                                                                        |                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <br><input type="text"/> - 4 = <input type="text"/> | <br><input type="text"/> - 6 = <input type="text"/> |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|



16  $7 + 2 =$

$6 - 4 =$

$4 + 2 =$

$2 + 2 =$

$9 - 4 =$

$9 - 2 =$

$6 + 3 =$

$3 + 3 =$

$5 - 3 =$

$8 - 3 =$

$2 + 6 =$

$1 + 1 =$

17 Cross off some pencils and do subtraction.

|                                                                                                                                        |                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <br><input type="text"/> - 3 = <input type="text"/> | <br><input type="text"/> - 2 = <input type="text"/> |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|



**18**  $5 + 1 =$

$1 + 5 =$

$5 - 3 =$

$3 + 4 =$

$3 - 1 =$

$5 + 2 =$

$6 - 1 =$

$6 + 2 =$

$4 + 3 =$

$4 - 3 =$

$1 + 7 =$

$9 - 7 =$

**19** Write addition with butterflies

|                                                                                                             |   |                                                                                                               |   |                      |
|-------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|---|----------------------|
| <br><input type="text"/> | + | <br><input type="text"/>   | = | <input type="text"/> |
| <br><input type="text"/> | + | <br><input type="text"/> | = | <input type="text"/> |



20  $1 + 4 =$

$5 + 2 =$

$5 - 4 =$

$2 + 7 =$

$6 - 1 =$

$2 + 2 =$

$6 + 3 =$

$1 + 1 =$

$3 + 3 =$

$9 - 3 =$

$2 + 3 =$

$6 - 6 =$



$21 \quad 8 - 4 =$

$9 - 2 =$

$7 - 4 =$

$3 + 2 =$

$6 + 3 =$

$4 + 2 =$

$5 + 3 =$

$5 - 4 =$

$4 + 4 =$

$8 - 5 =$

$2 + 1 =$

$10 - 8 =$



22  $6 - 1 =$

$5 - 2 =$

$3 - 1 =$

$3 - 3 =$

$7 - 3 =$

$4 - 4 =$

$6 - 5 =$

$9 - 4 =$

$1 - 1 =$

$10 - 4 =$

$5 - 1 =$

$7 - 6 =$

23 Write addition with soccers

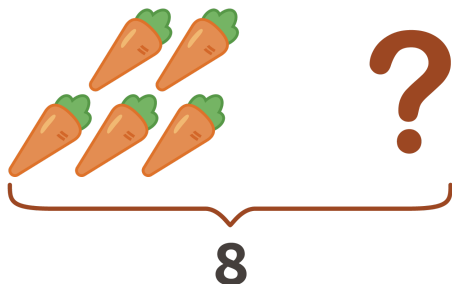
|                                                                                                             |   |                                                                                                               |   |                      |
|-------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|---|----------------------|
| <br><input type="text"/> | + | <br><input type="text"/>   | = | <input type="text"/> |
| <br><input type="text"/> | + | <br><input type="text"/> | = | <input type="text"/> |



- 24 Cross off some butterflies and do subtraction.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid blue; width: 40px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> <span style="font-size: 24px;">-</span> <div style="border: 1px solid blue; width: 40px; height: 30px; display: flex; align-items: center; justify-content: center;">1</div> <span style="font-size: 24px;">=</span> <div style="border: 1px solid blue; width: 40px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> </div> | <br><div style="display: flex; align-items: center; justify-content: center; gap: 10px;"> <div style="border: 1px solid blue; width: 40px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> <span style="font-size: 24px;">-</span> <div style="border: 1px solid blue; width: 40px; height: 30px; display: flex; align-items: center; justify-content: center;">3</div> <span style="font-size: 24px;">=</span> <div style="border: 1px solid blue; width: 40px; height: 30px; display: flex; align-items: center; justify-content: center;"> </div> </div> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

25



? = \_\_\_\_\_.



Handwriting practice area consisting of 18 sets of horizontal dashed lines for tracing or writing.







## Chapter 7 Addition within 20

1 Calculate :

$7+3=$

$13+4=$

$8+8=$

$9+4=$

$2+9=$

$5+4=$

2 Calculate :

$11+3=$

$7+6=$

$3+10=$

$5+10=$

$1+3=$

$9+9=$



**3** Calculate:

$0+19=$

$2+11=$

$6+10=$

$8+2=$

$4+14=$

$5+12=$

**4** Calculate :

$6+6=$

$4+4=$

$3+16=$

$9+4=$

$14+4=$

$12+2=$



**5** Calculate :

$1+8=$

$2+6=$

$3+3=$

$11+7=$

$6+0=$

$11+1=$

**6** Calculate :

$1+1=$

$3+15=$

$14+3=$

$9+4=$

$9+8=$

$13+2=$



**7** Calculate :

$6+12=$

$5+12=$

$8+10=$

$11+8=$

$10+7=$

$9+4=$

**8** Calculate :

$2+13=$

$2+14=$

$2+16=$

$11+2=$

$15+2=$

$2+4=$



**9** Calculate :

$1+18=$

$1+16=$

$15+1=$

$1+14=$

$1+13=$

$12+1=$

**10** Calculate :

$6+7=$

$7+8=$

$8+1=$

$8+9=$

$4+8=$

$11+7=$



**11** Calculate :

$3+7=$

$6+4=$

$8+2=$

$10+0=$

$5+5=$

$1+9=$

**12** Calculate :

$2+7=$

$1+17=$

$5+8=$

$3+9=$

$4+2=$

$7+12=$



**13** Calculate :

$$5+13=$$

$$5+14=$$

$$8+5=$$

$$11+5=$$

$$12+5=$$

$$5+4=$$

**14** Calculate :

$$9+3=$$

$$7+4=$$

$$14+3=$$

$$11+0=$$

$$2+16=$$

$$12+0=$$



**15** Calculate :

$1+3=$

$9+1=$

$18+1=$

$11+1=$

$12+3=$

$12+1=$

**16** Calculate :

$5+4=$

$6+4=$

$13+3=$

$12+4=$

$12+7=$

$11+8=$





**17** Calculate :

$9+10=$

$14+5=$

$10+8=$

$1+0=$

$11+8=$

$7+10=$

**18** Calculate :

$9+4=$

$0+4=$

$4+11=$

$14+3=$

$1+7=$

$2+14=$



**19** Calculate :

$4+12=$

$3+11=$

$2+16=$

$11+0=$

$5+11=$

$12+1=$

**20** Calculate :

$4+5=$

$2+10=$

$7+8=$

$0+12=$

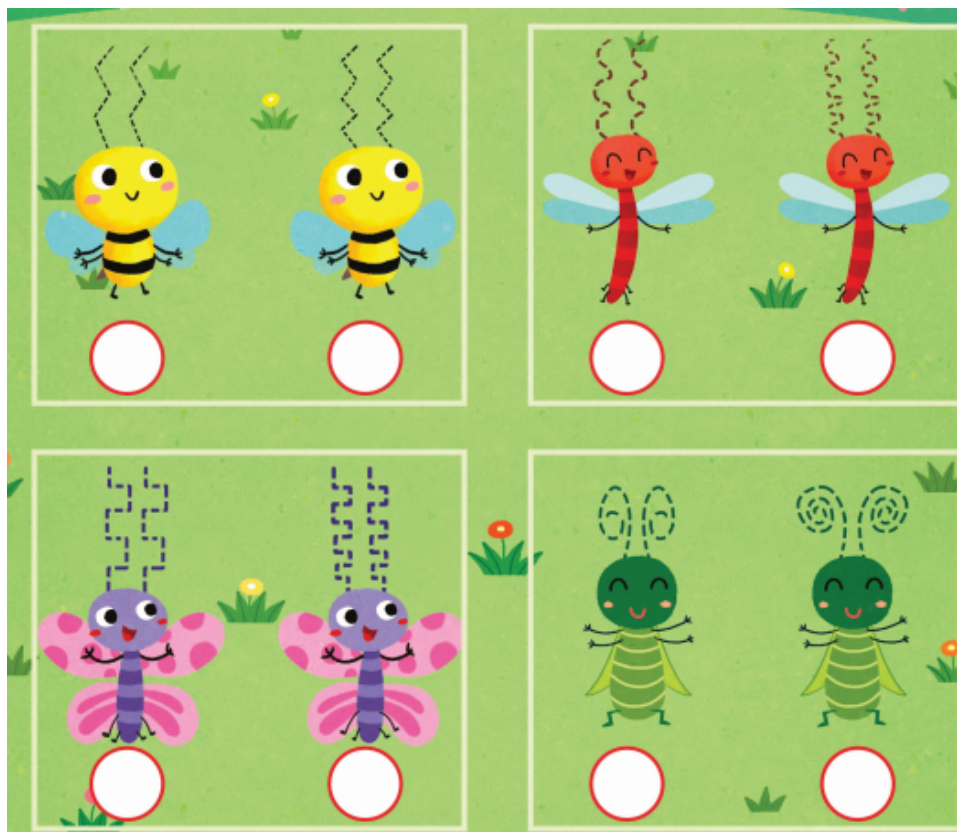
$10+4=$

$4+8=$



## Chapter 8 Compare Length

1 Find the insect in each group with longer antennae, and color "○" in red.





- 2 Fill 1 to 4 in the circles based on the length of each rope.

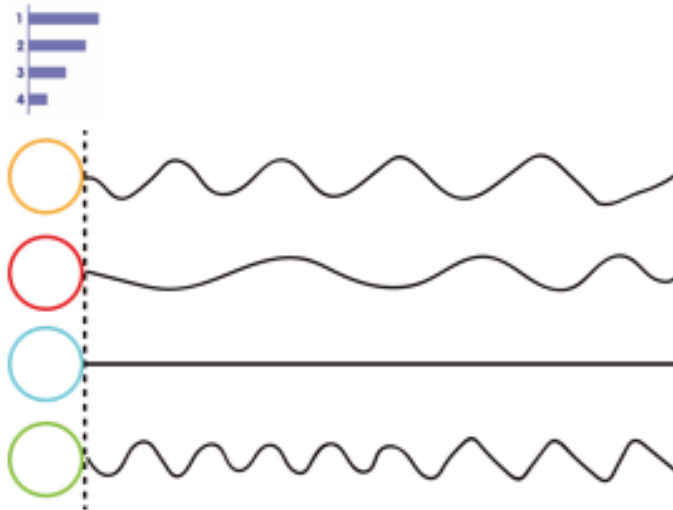
1  
2  
3  
4

○  
○  
○  
○

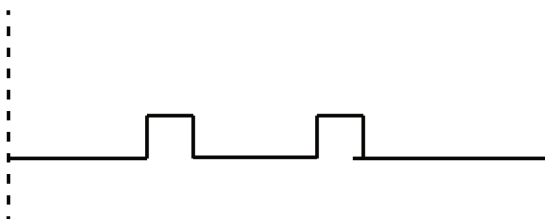
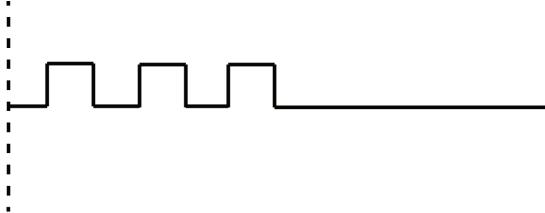
1  
2  
3  
4



- 3 Fill to 1 in 4 the circles based on the length of each rope.

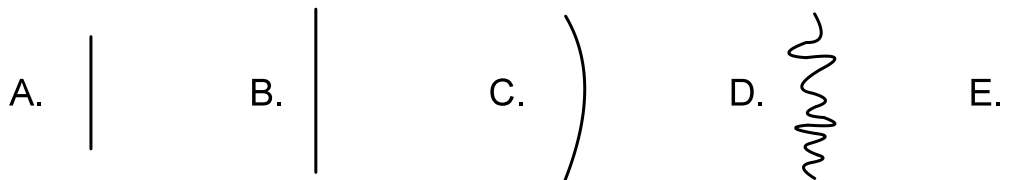


- 4 Which line is longer? Circle it!

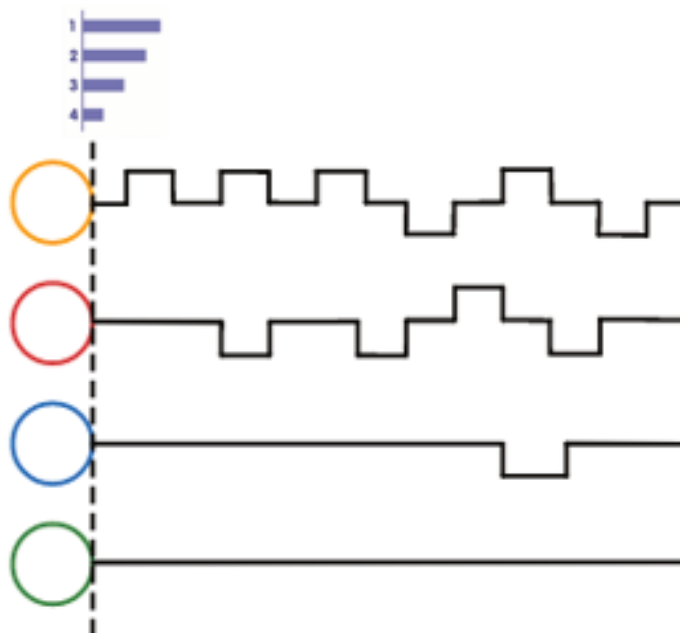




5 Which line is the longest?

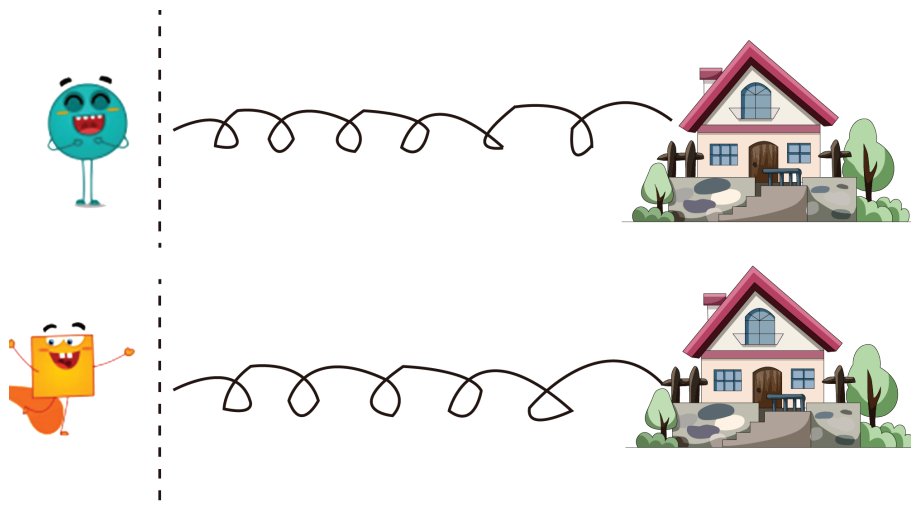


6 Fill 1 to 4 in the circles based on the length of each rope

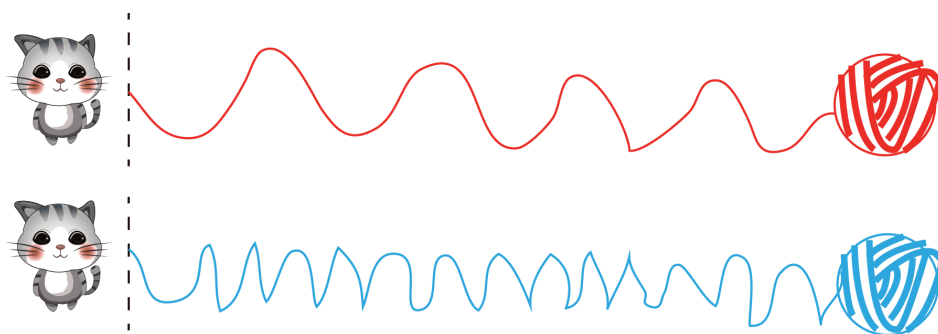




7 Which line is longer? Circle it!

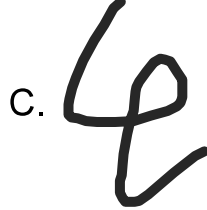
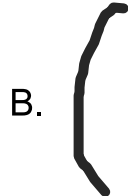


8 Which line is longer? Circle it!

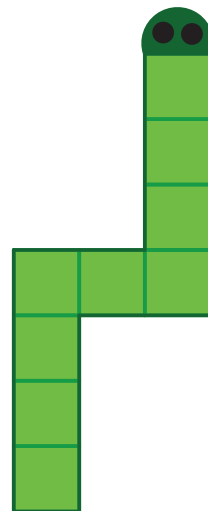
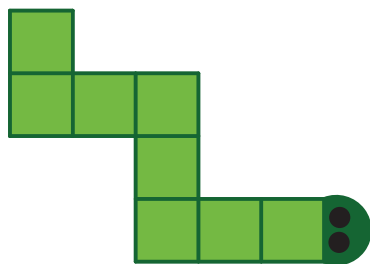




9 Which line is the shortest?



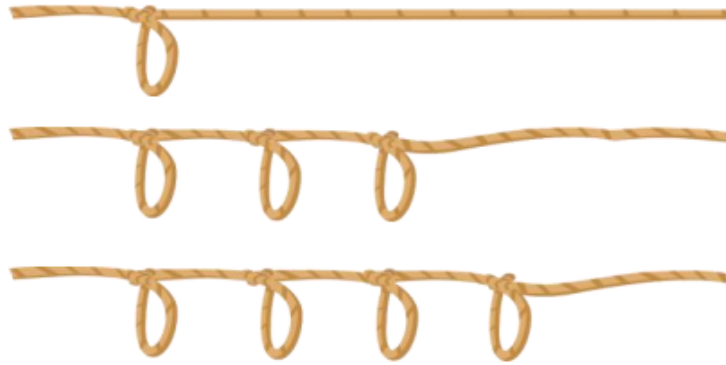
10 Which caterpillar is longer? Circle it!



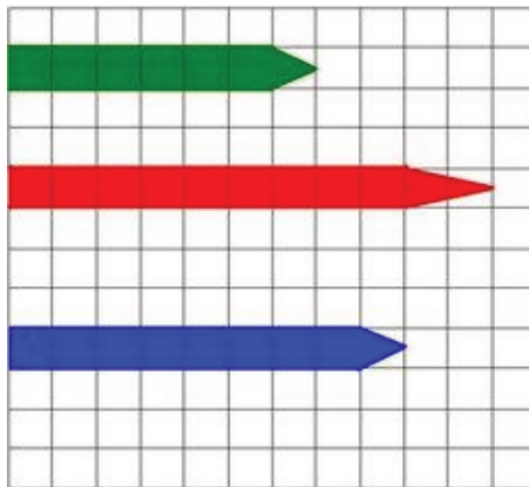




**11** Which rope is the longest?

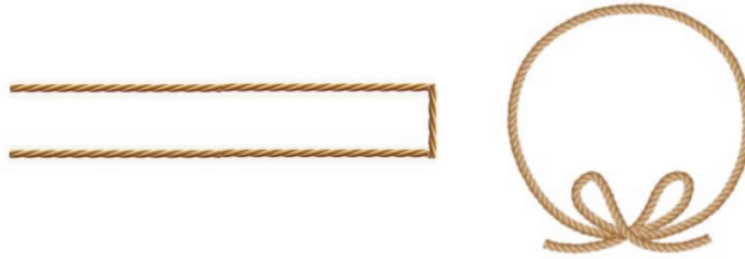


**12** Which pencil is the longest?

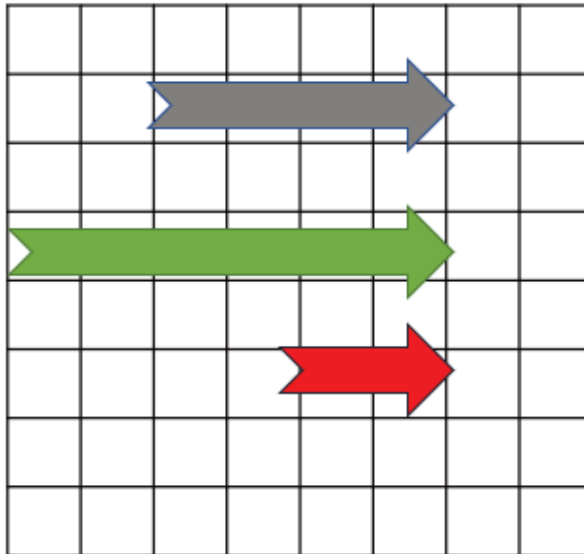




- 13 Two ropes of the same length are fold differently as below. Now, which rope is longer?

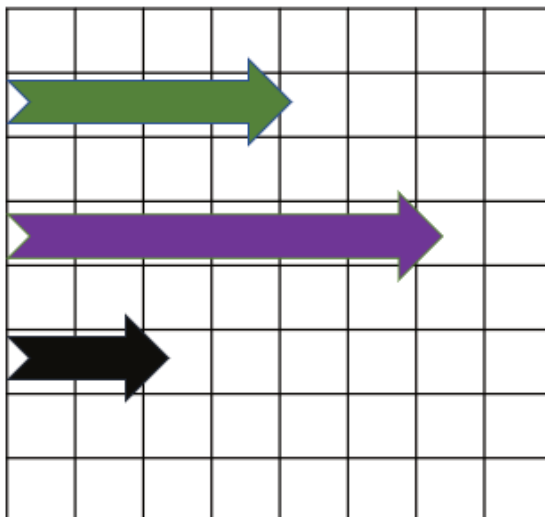


- 14 Which arrow is the shortest?

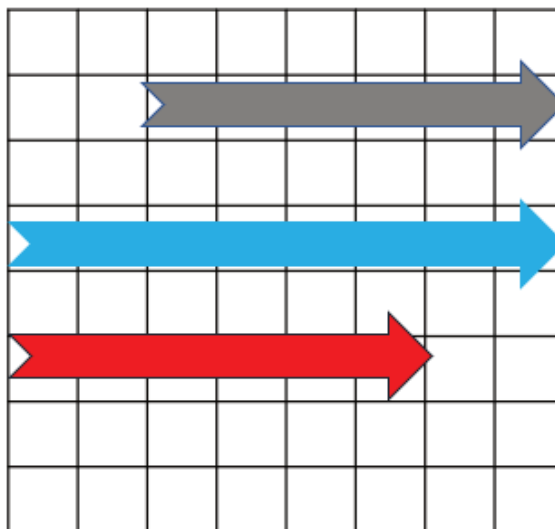




**15** Which arrow is the shortest?

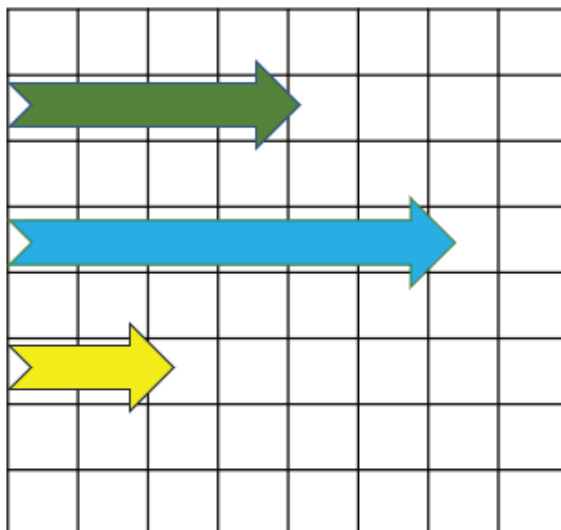


**16** Which arrow is the longest?

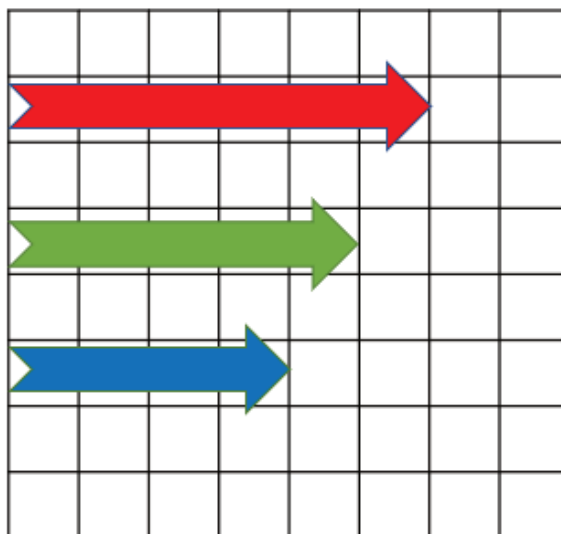




**17** Which arrow is the longest?

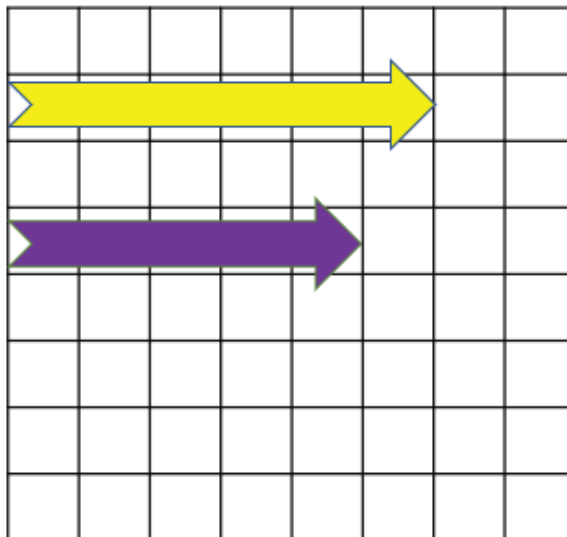


**18** Which arrow is the longest?

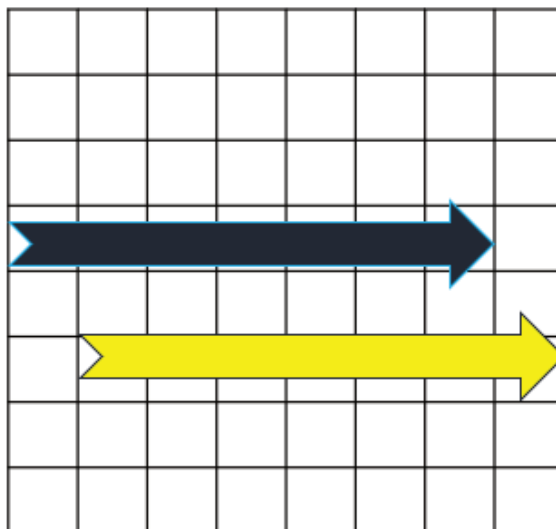




**19** Which arrow is shorter?

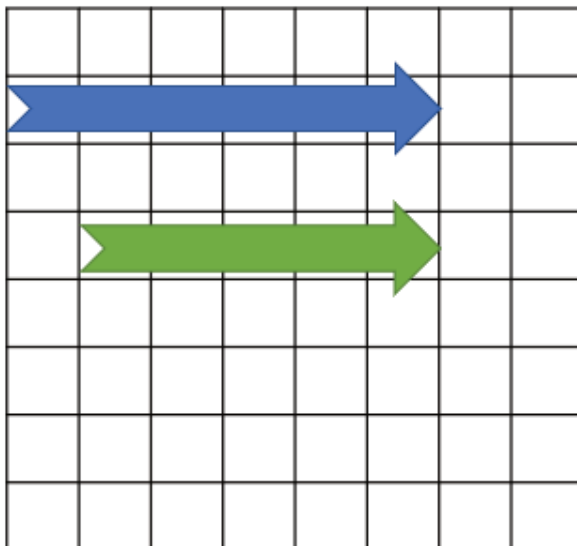


**20** Which arrow is longer?





21 Which arrows is longer?



22 Which line is longer? Circle it!





23 Which line is shorter? Circle it!

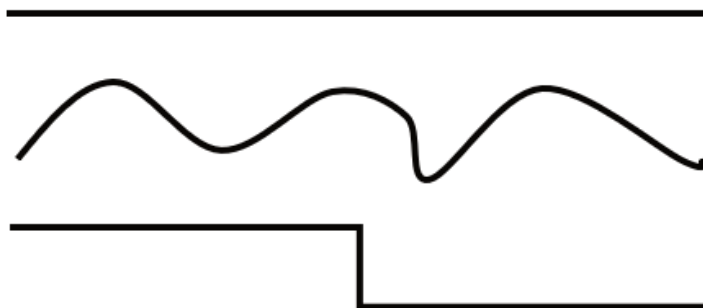


24 Which line is the longest? Circle it!





25 Which line is the shortest? Circle it!



26 Which line is longer? Circle it!



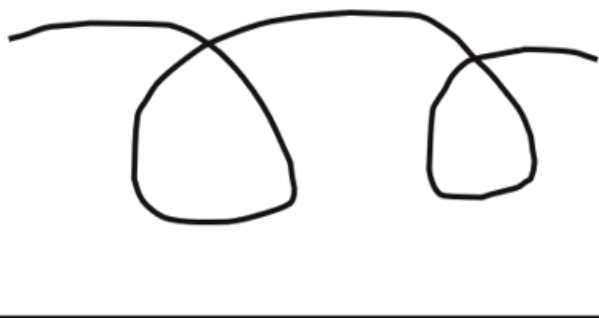




27 Which line is shorter? Circle it!



28 Which line is longer? Circle it!





## Chapter 9 Subtraction

**1** Calculate:

$$11-1=$$

$$14-4=$$

$$13-3=$$

$$10-10=$$

$$15-5=$$

$$12-12=$$

**2** Calculate :

$$2-1=$$

$$4-4=$$

$$8-3=$$

$$11-9=$$

$$12-2=$$

$$12-11=$$



**3** Calculate:

$12-1=$

$3-2=$

$8-4=$

$15-4=$

$12-5=$

$18-11=$

**4** Calculate:

$8-8=$

$9-3=$

$9-8=$

$7-2=$

$13-5=$

$7-4=$



**5** Calculate:

$12-9=$

$12-3=$

$9-4=$

$14-8=$

$15-5=$

$17-4=$

**6** Calculate:

$13-13=$

$19-18=$

$11-2=$

$19-13=$

$8-6=$

$8-7=$



**7** Calculate:

$7-2=$

$7-3=$

$10-0=$

$13-8=$

$20-20=$

$19-4=$

**8** Calculate:

$11-9=$

$12-6=$

$14-7=$

$16-8=$

$18-9=$

$8-4=$



**9** Calculate:

$10-9=$

$7-3=$

$5-2=$

$8-6=$

$9-1=$

$4-2=$

**10** Calculate:

$13-6=$

$15-8=$

$14-5=$

$14-9=$

$15-4=$

$13-10=$



**11** Calculate :

$6-0=$

$13-7=$

$8-1=$

$15-9=$

$10-2=$

$17-12=$

**12** Calculate:

$16-7=$

$19-12=$

$15-8=$

$19-10=$

$13-9=$

$19-8=$



**13** Calculate:

$13-13=$

$15-10=$

$12-10=$

$15-5=$

$11-1=$

$19-15=$

**14** Calculate:

$10-9=$

$15-6=$

$12-12=$

$14-0=$

$11-6=$

$17-8=$





**15** Calculate:

$7-2=$

$16-2=$

$13-7=$

$16-3=$

$13-5=$

$13-6=$

**16** Calculate:

$13-8=$

$2-2=$

$12-7=$

$7-6=$

$19-12=$

$16-13=$



**17** Calculate:

$18-4=$

$15-3=$

$19-2=$

$19-6=$

$17-5=$

$17-4=$

**18** Calculate:

$9-5=$

$13-1=$

$7-3=$

$14-6=$

$6-3=$

$12-8=$



**19** Calculate:

$15-1=$

$12-2=$

$16-15=$

$17-8=$

$17-13=$

$13-1=$

**20** Calculate:

$20-19=$

$10-10=$

$18-15=$

$13-3=$

$14-12=$

$15-10=$



## Chapter 10 Pattern

1 Find the pattern. What color is the next flower?



2 Find the pattern. What color is the next lighting?





- 3 Find the pattern. What is the direction of the next arrow?



- 4 Find the pattern. What color is the next balloon?





5 Find the pattern. What color is the next lantern?



6 Find the pattern. What is the next figure?





7 Find the pattern. What is the next figure?



8 Find the pattern. What is the next car?





9 Find the pattern. What is the next vehicle?



10 Find the pattern. Which egg is in the wrong place?







11 Find the pattern. What is the next figure?



\_\_\_\_\_

12 Find the pattern. What is the next figure?



\_\_\_\_\_



**13** Find the pattern. What is the next figure?



**14** Find the pattern. What is the next figure?





15 Find the pattern. What is the next figure?

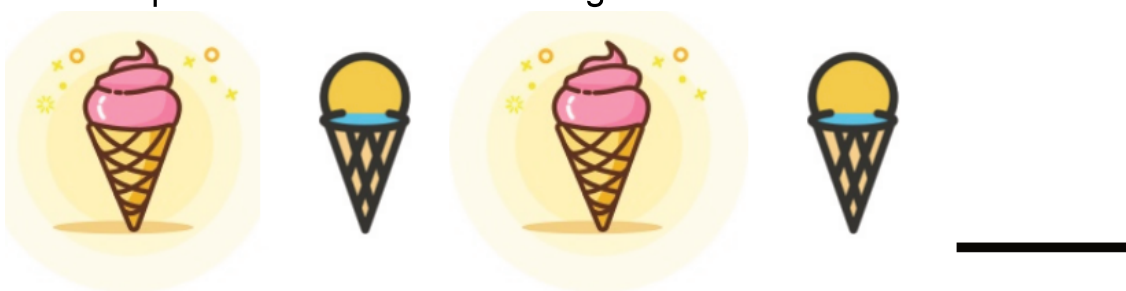


16 Find the pattern. What is the next figure?





17 Find the pattern. What is the next figure?



18 Find the pattern. What is the next figure?





19 Find the pattern. What is the next figure?



20 Find the pattern. What is the next figure?





21 Find the pattern. Fill in the blank.

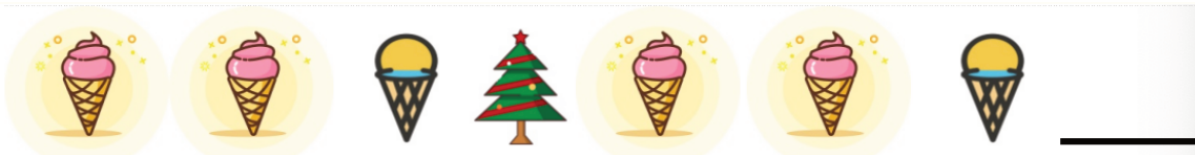


22 Find the pattern. What is the next figure?





23 Find the pattern. What is the next figure?



24 Find the pattern. What is the next figure?





## Chapter 10 Cut & Form Shapes

- 1 Divide the shape below into 2 equal triangles.



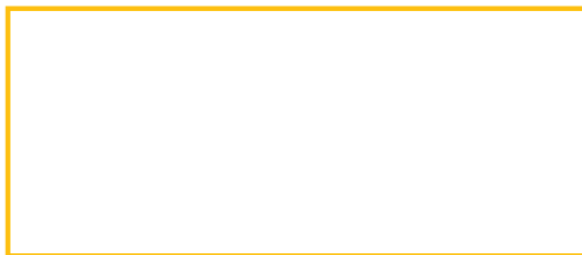
- 2 Divide the shape below into 4 equal triangles.







- 3 Divide the shape below into 2 equal shapes



- 4 Divide the shape below into 4 equal triangles.

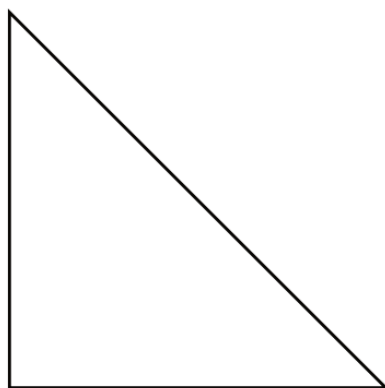




- 5 Divide the shape below into 4 equal triangles.



- 6 Divide the shape below into 4 equal triangles.

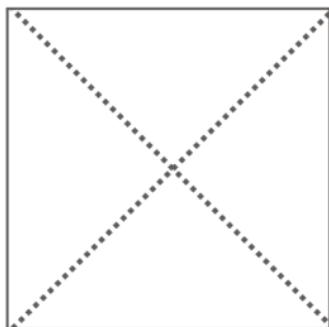




- 7 Divide the shape below into 6 equal triangles.



- 8 How many triangles is the square divided into?

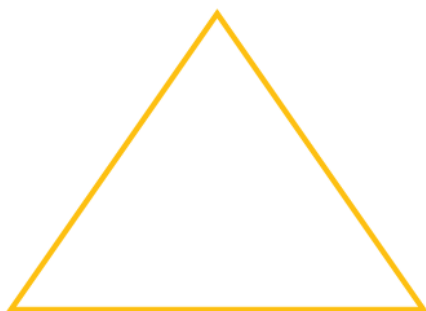




- 9 Divide the shape below into a triangle and a quadrilateral a shape with 4 sides.



- 10 Divide the shape below into a triangle and a quadrilateral a shape with 4 sides.





- 11** Put two pieces together. What kinds of new shapes can you form?



- 12** Put two pieces together on the left, which shape on the right can you form?





- 13** Which of the following shapes can be made with two triangles? Circle them!



- 14** Circle two same triangles.





**15** Circle all the parallelograms.



**16** Circle the shape that is not quadrilateral a shape with 4 sides.





**17** Circle all the quadrilaterals a shape with 4 sides.



**18** Circle all the quadrilaterals a shape with 4 sides.







- 19** Add side(s) to make quadrilaterals a shape with 4 sides.



- 20** Complement the other side of the quadrilateral a shape with 4 sides.





**21** Match items with the same shape.



**22** What is the shape of the cut? Match.





## Chapter 12 Direction

1 Is the red parrot in front of or behind the white parrot? Why?



2 Is the moon in front of or behind the cloud? Why?





- 3 It's cloudy today. Is the sun in front of or behind the cloud? Why?



- 4 Which seahorse is in the most front place? Why?





5 Which clock is in the most front place? Why?



6 Describe the positional relationship of the fence and the house.





- 7 Describe the positional relationship of the oranges and the juice.



- 8 Which is in the most front place? The steak, the vegetable, or the spatula.





9 Which animal is in the most front place? Why?

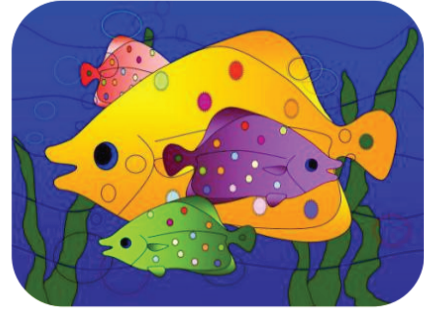


10 Put 4 stickers one by one as shown in the picture. Which one is the first to place?





- 11 Put 4 stickers one by one as shown in the picture. Which one is the first to place?



- 12 Counting from the left, the cucumber is the \_\_\_\_\_ one.



A. first

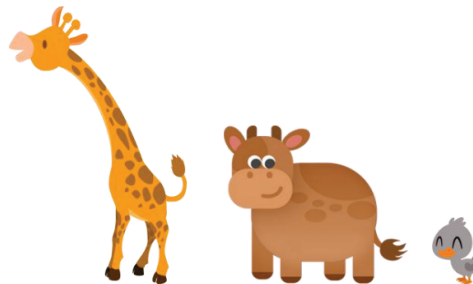
B. second

C. third





13 Counting from the right, the tallest animal is the \_\_\_\_\_ one.



A. first

B. second

C. third

14 Counting from the right, the pear is the \_\_\_\_\_ one.



A. first

B. second

C. third



15 Counting from the left, the butterfly is the \_\_\_\_\_ one.



A. 1<sup>st</sup>

B. 2<sup>nd</sup>

C. 3<sup>rd</sup>

D. 4<sup>th</sup>

16 Counting from the right, the baby in yellow is the \_\_\_\_\_ one.



A. 1<sup>st</sup>

B. 2<sup>nd</sup>

C. 3<sup>rd</sup>

D. 4<sup>th</sup>

E. 5<sup>th</sup>



17 Counting from the left, which is the third fruit?



18 Counting from the right, who is the third person?





- 19 Counting from the left, which is the fifth sock?



- 20 There are Joann's stickers. Counting from the right, she likes the fifth one best. Which one is her favorite sticker?

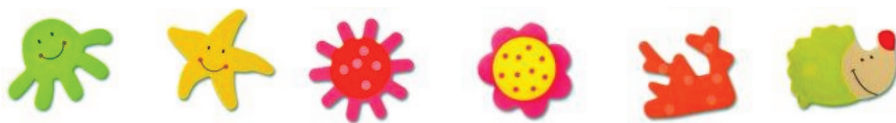




- 21 Counting from the left, how many turtles are in front of Tim?



- 22 There are Sana's stickers. Counting from the left, she likes the sixth one best. Which one is her favorite sticker?





**23** Counting from the right, the eighth pencil belongs to Joann. Circle it!







Handwriting practice lines consisting of multiple sets of three horizontal dashed lines on a white background.

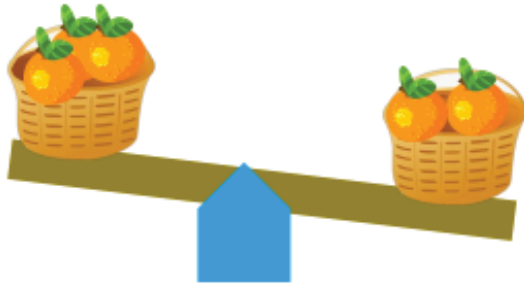




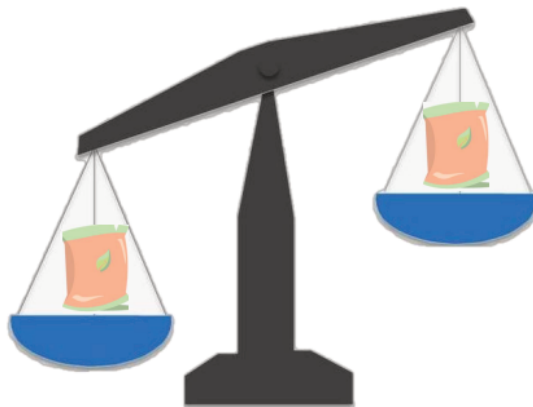


## Chapter 13 Balance

1 Which side is heavier? Circle it.

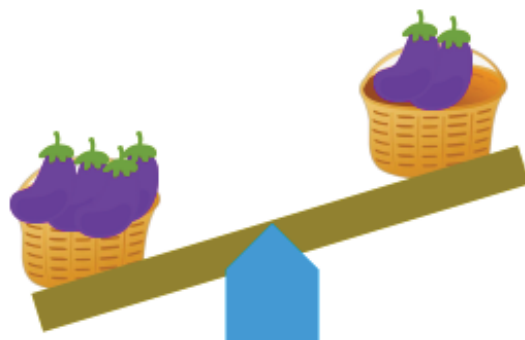


2 Which side is heavier? Circle it.





3 Which side is lighter? Circle it.



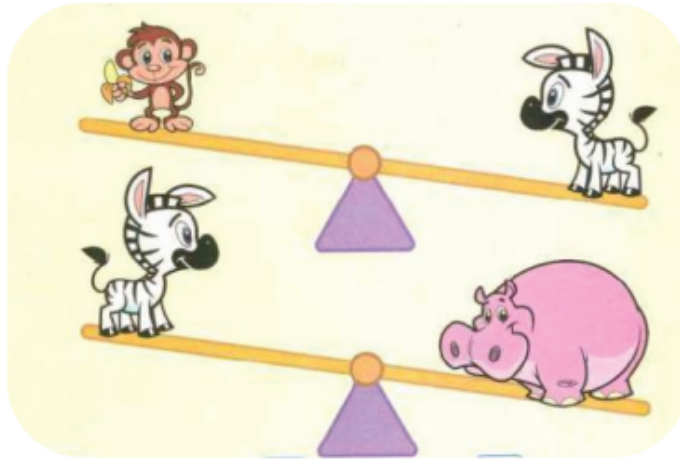
4 In the figure below, which is the heaviest? Which is the lightest? Order from heaviest to lightest.



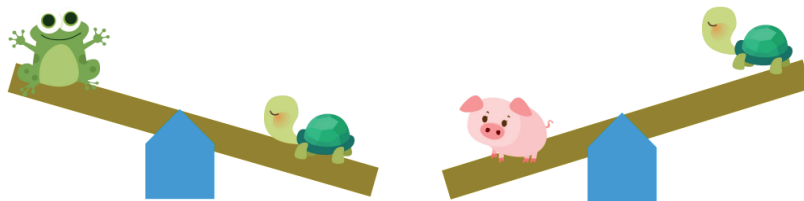
\_\_\_ > \_\_\_ > \_\_\_



5 In the figure below, which is the heaviest? Circle it!



6 In the figure below, which is the heaviest? Circle it!





7 In the figure below, which is the heaviest? Circle it!

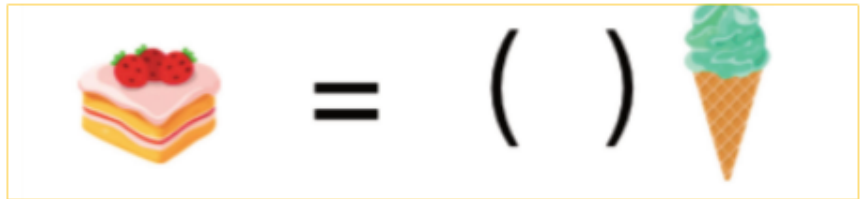
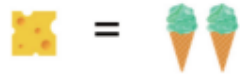


8 How many oranges weigh the same as 2 peaches?

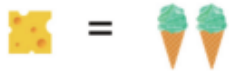




9 Fill in the numbers.



10 Fill in the numbers.





## Chapter

**1** Calculate :

$$17-1=$$

$$11-7=$$

$$7-1=$$

$$7-0=$$

$$7-7=$$

$$17-11=$$

**2** Calculate :

$$9+1=$$

$$10+3=$$

$$8+5=$$

$$12+8=$$

$$1+7=$$

$$11+3=$$



**3** Calculate :

$2+15=$

$2+5=$

$7+12=$

$7+2=$

$16+3=$

$6+13=$

**4** Calculate :

$16-6=$

$7-4=$

$16-16=$

$17-4=$

$10-6=$

$17-14=$



**5** Calculate :

$7+4=$

$7+8=$

$8+0=$

$11+7=$

$10+0=$

$7+1=$

**6** Calculate :

$13-2=$

$13-12=$

$12-3=$

$3-3=$

$3-2=$

$12-2=$





**7** Calculate :

$2+3=$

$3+4=$

$8+3=$

$11+4=$

$12+2=$

$12+4=$

**8** Calculate :

$11-0=$

$11-11=$

$10-1=$

$10-0=$

$11-10=$

$0-0=$



**9** Calculate :

$13-5=$

$6-6=$

$15-3=$

$10-6=$

$5-3=$

$16-0=$

**10** Calculate :

$1-0=$

$9-1=$

$1-1=$

$4-1=$

$2-1=$

$9-5=$



**11** Calculate :

$14-5=$

$9-2=$

$10-6=$

$9-5=$

$8-5=$

$15-7=$

**12** Calculate :

$20-2=$

$20-0=$

$2-0=$

$10-0=$

$2-2=$

$20-10=$



**13** Calculate :

$1+15=$

$6+6=$

$5+5=$

$9+9=$

$7+7=$

$8+8=$

**14** Calculate :

$17-12=$

$10-6=$

$17-6=$

$16-13=$

$15-7=$

$16-9=$



**15** Calculate :

$$9+2=$$

$$9+4=$$

$$12+1=$$

$$3+9=$$

$$11+4=$$

$$11+1=$$

**16** Calculate :

$$2+2=$$

$$3+3=$$

$$8+9=$$

$$4+4=$$

$$10+10=$$

$$1+1=$$



**17** Calculate :

$6+3=$

$6+4=$

$8+1=$

$11+6=$

$6+2=$

$16+4=$

**18** Calculate :

$1+9=$

$14+4=$

$2+11=$

$4+3=$

$11+5=$

$5+8=$



**19** Calculate :

$$5-5=$$

$$20-5=$$

$$10-5=$$

$$15-10=$$

$$15-5=$$

$$20-15=$$

**20** Calculate :

$$7+1=$$

$$7+11=$$

$$2+14=$$

$$4+12=$$

$$19+0=$$

$$9+10=$$



## Chapter 15 Pattern & Direction

1 Complete the pattern below.



2 Complete the pattern below.







3 Find the pattern. What is the next figure?



4 Find the pattern. What is the next figure?





5 Find the pattern. What is the next figure?



6 Complete the pattern below.





7 Find the pattern. What is the next figure?



8 Find the pattern. What is the next figure?





9 Complete the pattern below.

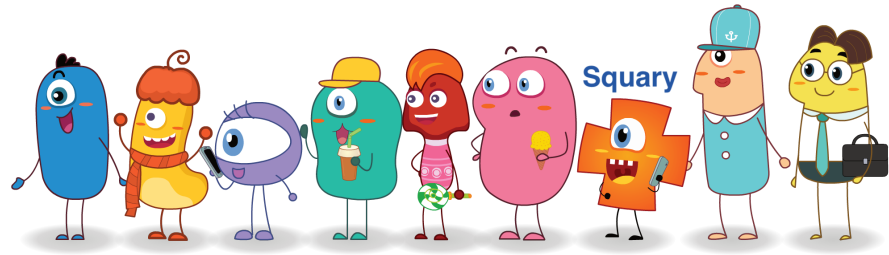


10 Find the pattern. What is the next figure?





11 Squary is the \_\_\_\_\_<sup>th</sup> person when counting from the front.



12 One of the kids forgets the glass, and there are 2 kids behind that kid. Who is that kid?





- 13 Counting from the left, Sana is the third one. Who is Sana?



- 14 How many animals are in front of Sammie the sloth (exclude the salesperson)?





- 15 Counting from the left, there are \_\_\_\_\_ letters to the right of *N*.



- 16 There are \_\_\_\_\_ people behind the tallest person.





- 17 There are \_\_\_\_\_ people in front of Candy (exclude the salesperson).



- 18 Counting from the left, how many animals are there to the right of the bunny?







19 There are \_\_\_\_\_ people standing behind Anto.



20 Counting from the right, Mia's favorite cloth is the 6<sup>th</sup> one. Which is her favorite cloth?





- 21 Counting from the left, how many items are there to the right of the cheapest one?



3 dollars



12 dollars



15 dollars



10 dollars



8 dollars



20 dollars

- 22 Counting from the left, how many kids are there to the right of the girl in the pink dress?





23 How many people are there in front of Harry?



24 Counting from the left, how many animals are to the left of the fish?





- 25 Jason has many toy cars. Counting from the left, there are 3 toy cars to the right of his favorite one. Which is his favorite toy car?







Handwriting practice lines consisting of multiple sets of three horizontal dashed lines on a white background.









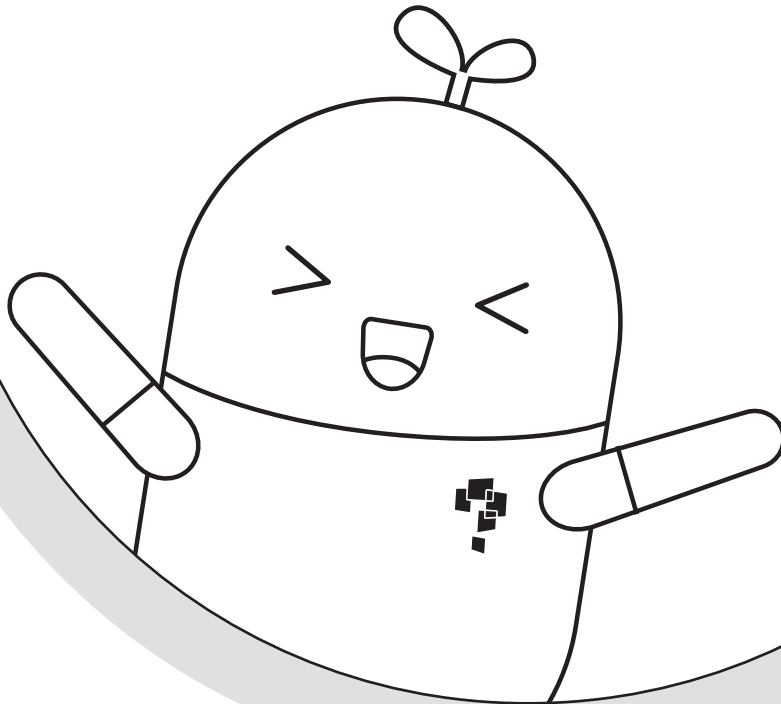




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 <https://www.thethinkacademy.com/>

# Answers



# Chapter 1-6

## Chapter 1 Count I

---

1 4;7

2 6;8

3 7;7

4 8;6

5 6;7

6 5;6

7 5;8

8 6;4

9 9;8

10 6;7

11 5;6

12 6;8

13 8;7

14 6;6;7

15 6;6;7

16 8;8;7

17 3;

2;

5;

7

18 12

19 12

20 12

21 7;4

22 8

23 5

24 15

25 8

26 6

27 6

28 12

29 9

30 8

31 5

32 15

33 8

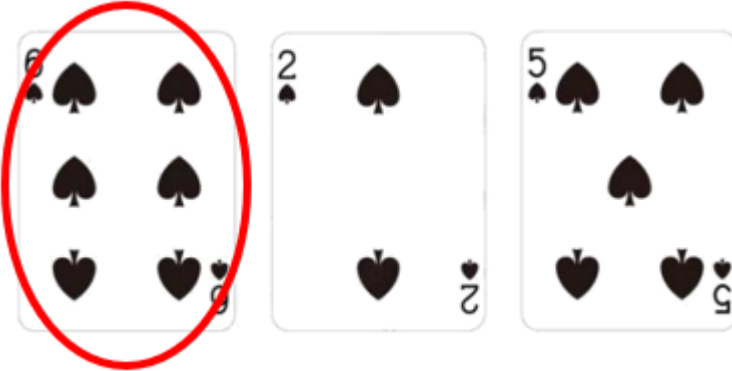
34 8

35 16

36 5

## Chapter 2 Compare

1



2  $<$ ;  $<$

3 chips

4 The cat has 2 more bags of popcorns than the elephant.

5 The cow has 3 more cups than the buffalo.

6 2 or 3

7 apple

8  $<$

9 The first row; 2 more.

10 *Same.*

11



12

2;3;strawberry

13

The first;10

14

As many

15

Blue

16

*Same.*

17

Same

## Chapter 3 Count II

1

10

2

6

3

5

4

8



5 7

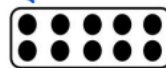
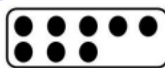
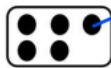
6 8

7 7

8 4

4

9



10 10

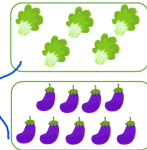
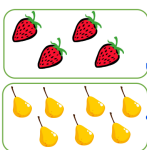
11 2

12 5;

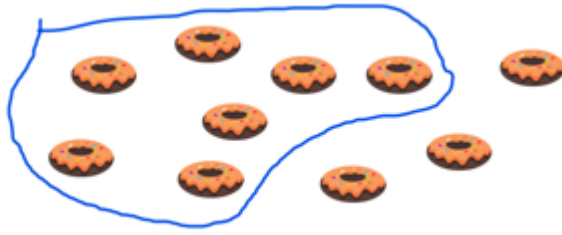
3

13 3

14



15



16 4



17 7

18 5;

4;

6

19 Oranges;



20 3

21



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

Panda is the most and cow is the least.

22 3;1;2;7;3;;4;1

## Chapter 4 Addition within 10

1  $6 - 4 = 2$

$9 - 5 = 4$

2  $5 + 4 = 9$

$5 + 2 = 7$

3

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

4

$4 + 4 = 8$

$2 + 7 = 9$

5  $5 + 2 = 7$

$3 + 2 = 5$

6  $9 - 3 = 6$

$7 - 2 = 5$

7 1:2

Alternative:3

2:3

Alternative:2

3:5

8

$3 + 6 = 9$

$1 + 1 = 2$

$3 + 4 = 7$

$5 + 1 = 6$

$4 + 4 = 8$

$2 + 5 = 7$

$2 + 3 = 5$

$1 + 7 = 8$

$8 + 1 = 9$

$1 + 4 = 5$

$3 + 5 = 8$

$2 + 6 = 8$

9

|             |             |             |
|-------------|-------------|-------------|
| $5 - 4 = 1$ | $8 - 2 = 6$ | $6 - 5 = 1$ |
| $4 - 2 = 2$ | $7 - 3 = 4$ | $9 - 4 = 5$ |
| $5 - 5 = 0$ | $7 - 4 = 3$ | $9 - 1 = 8$ |
| $6 - 2 = 4$ | $9 - 2 = 7$ | $9 - 6 = 3$ |

10 C

11

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

12  $4 + 2 = 6$

$5 + 1 = 6$

13

|              |              |             |
|--------------|--------------|-------------|
| $7 - 1 = 6$  | $6 - 2 = 4$  | $6 - 5 = 1$ |
| $8 - 2 = 6$  | $7 - 3 = 4$  | $4 - 1 = 3$ |
| $10 - 5 = 5$ | $10 - 4 = 6$ | $9 - 9 = 0$ |
| $5 - 4 = 1$  | $1 - 1 = 0$  | $8 - 8 = 0$ |

**14**

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

**15**

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

**16**

1:4

Alternative:6

2:6

Alternative:4

3:10

17

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

18

|             |              |             |
|-------------|--------------|-------------|
| $3 - 2 = 1$ | $10 - 4 = 6$ | $5 - 3 = 2$ |
| $5 - 2 = 3$ | $3 - 3 = 0$  | $7 - 4 = 3$ |
| $4 - 3 = 1$ | $8 - 4 = 4$  | $9 - 2 = 7$ |
| $4 - 1 = 3$ | $7 - 4 = 3$  | $8 - 7 = 1$ |

19

$$3 + 4 = 7$$

$$5 + 4 = 9$$

20

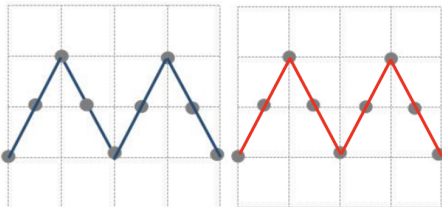
|             |             |             |
|-------------|-------------|-------------|
| $3 + 3 = 6$ | $2 + 3 = 5$ | $2 + 2 = 4$ |
| $5 + 1 = 6$ | $2 + 1 = 3$ | $2 + 5 = 7$ |
| $2 + 5 = 7$ | $5 + 4 = 9$ | $3 + 5 = 8$ |
| $3 + 6 = 9$ | $1 + 3 = 4$ | $4 + 4 = 8$ |

21

|              |             |             |
|--------------|-------------|-------------|
| $10 - 1 = 9$ | $5 - 2 = 3$ | $1 - 1 = 0$ |
| $6 - 2 = 4$  | $9 - 3 = 6$ | $9 - 3 = 6$ |
| $10 - 5 = 5$ | $8 - 4 = 4$ | $3 - 2 = 1$ |
| $7 - 4 = 3$  | $2 - 1 = 1$ | $9 - 6 = 3$ |

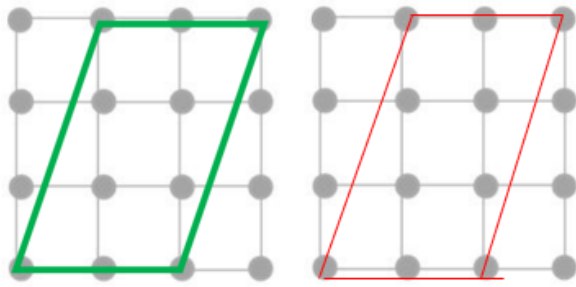
## Chapter 5 Draw Shapes

1

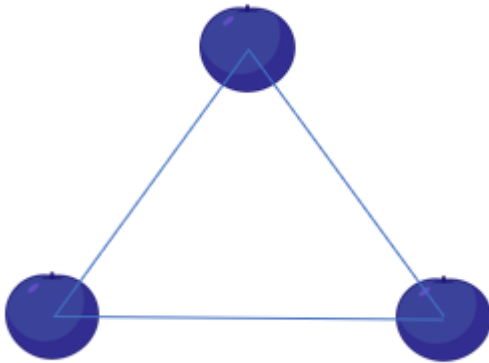


2

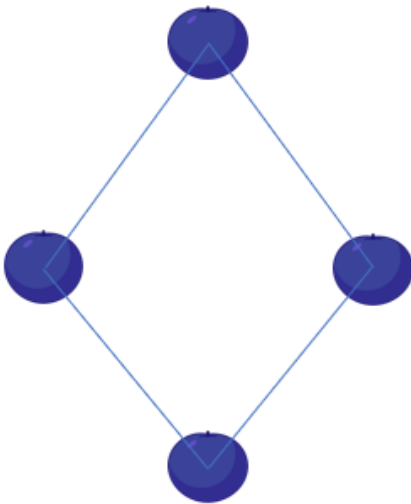




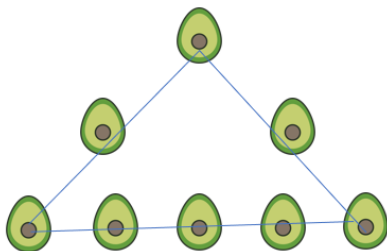
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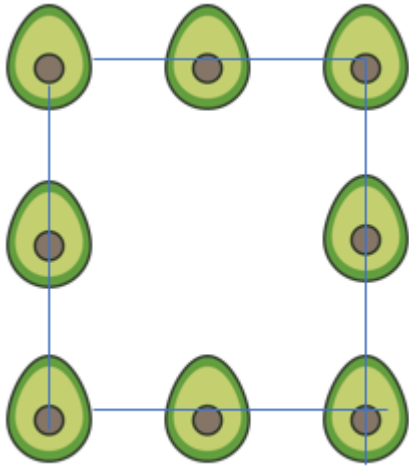
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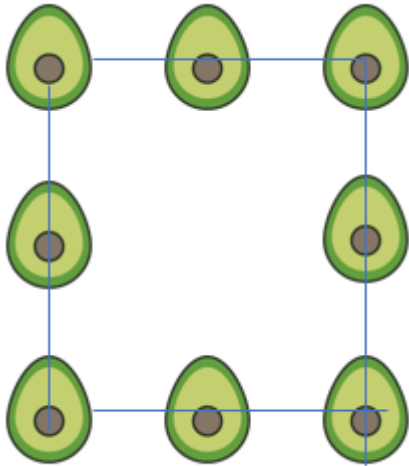
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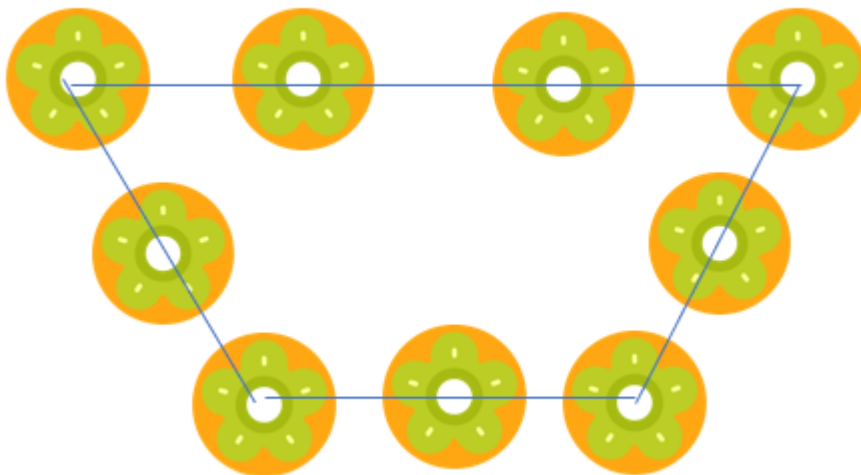
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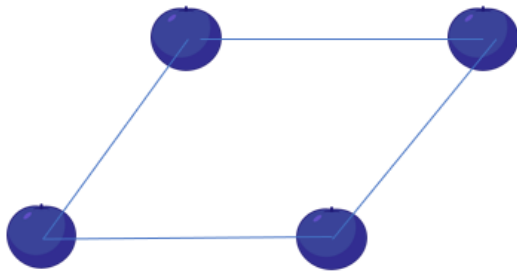
7



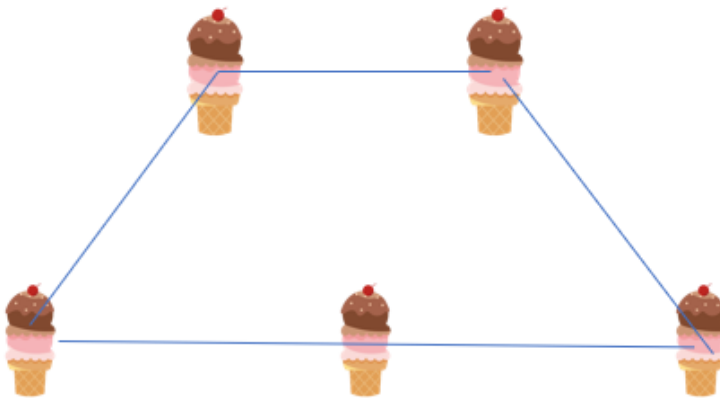
8



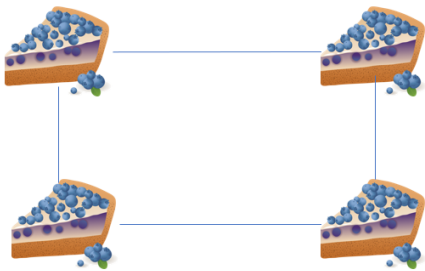
9



10

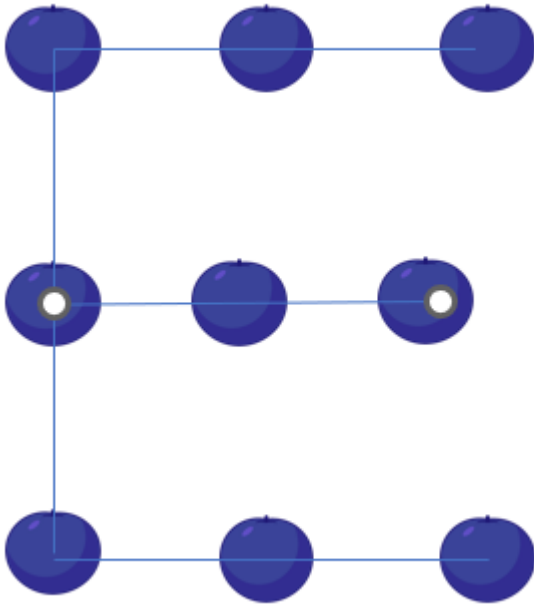


11

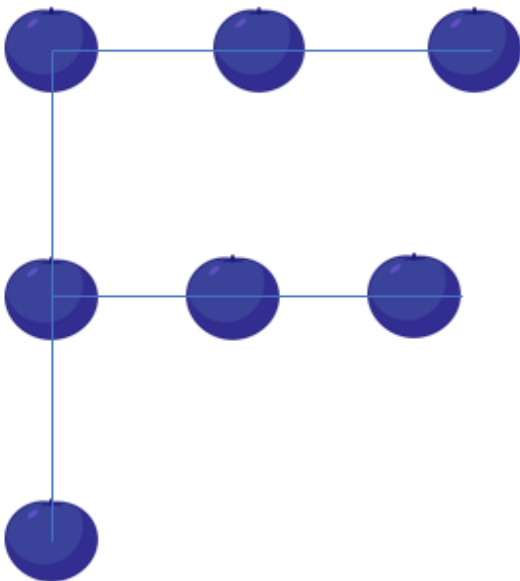


12

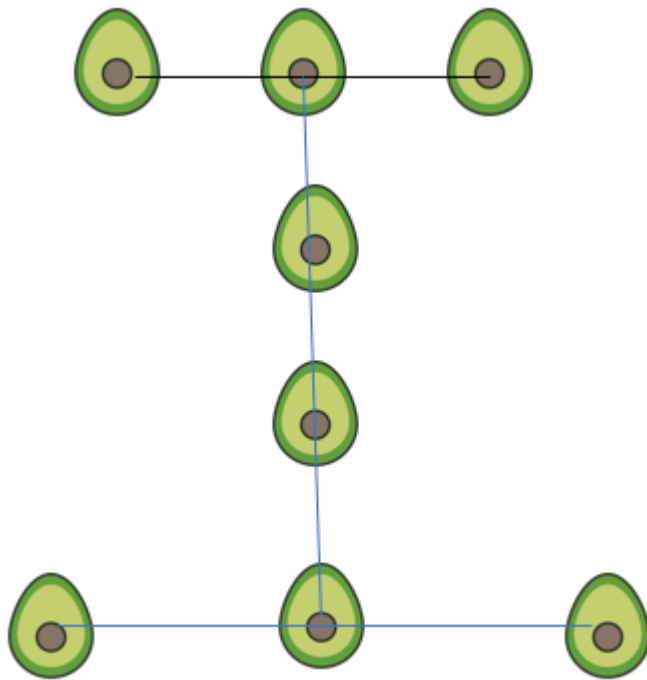
*E*



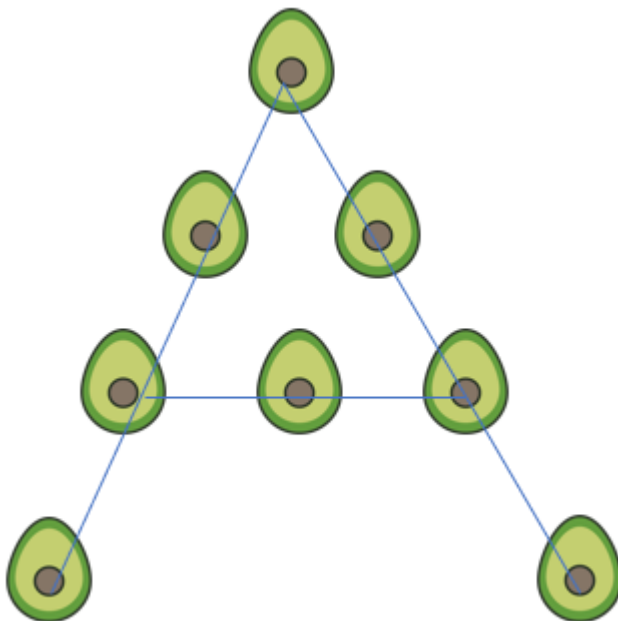
13 *F*



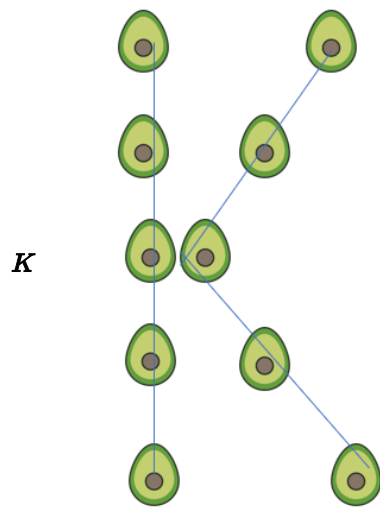
14 *I*



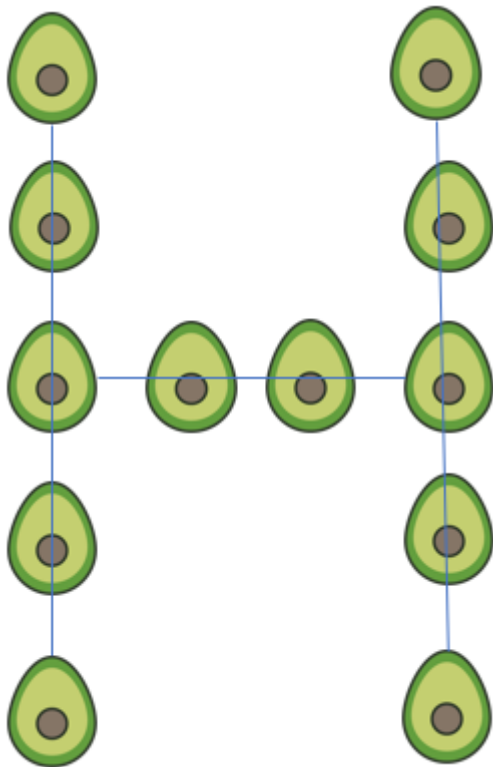
15 A



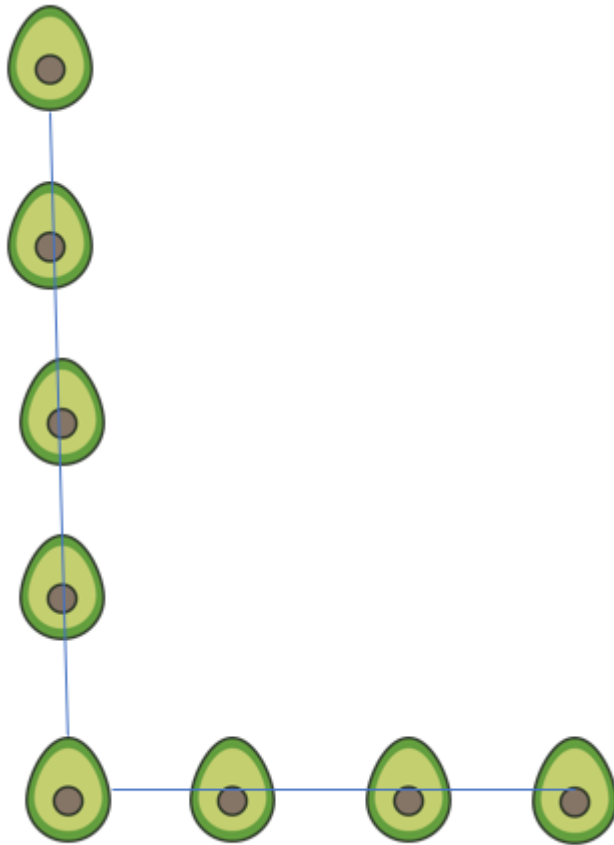
16



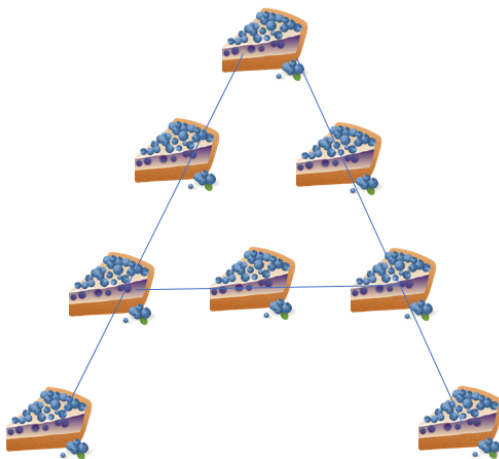
17  $H$



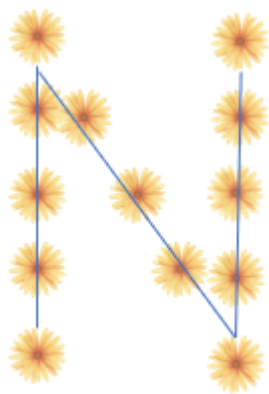
18  $L$



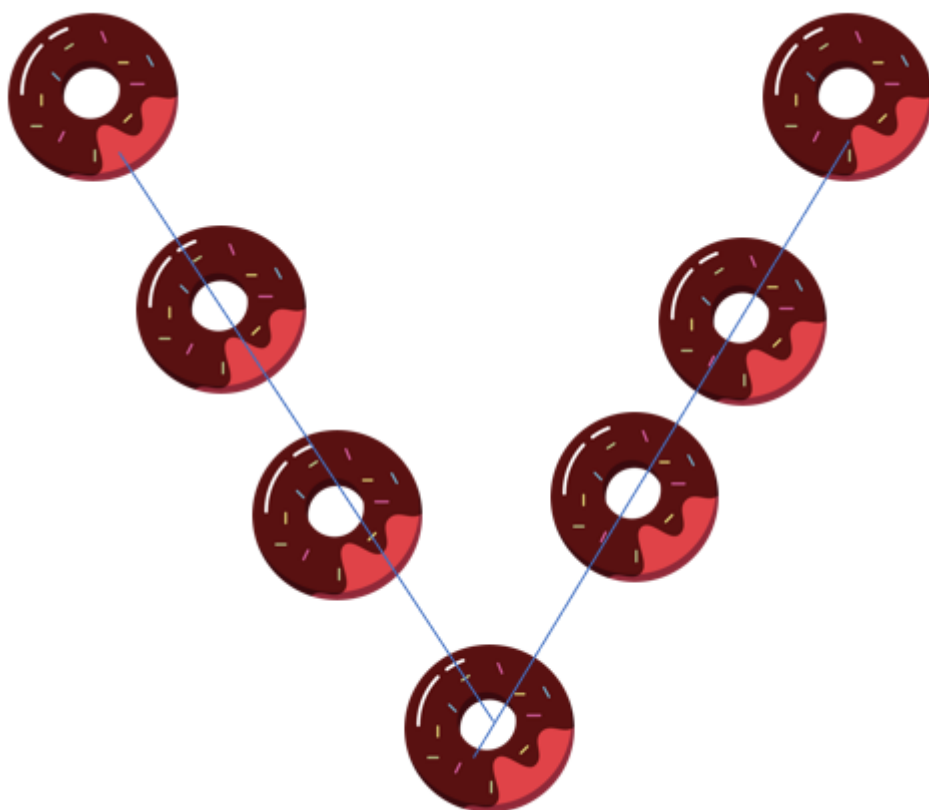
19 A



20 N

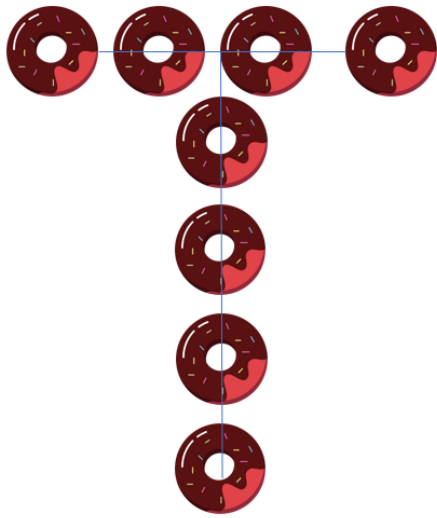


21  $v$

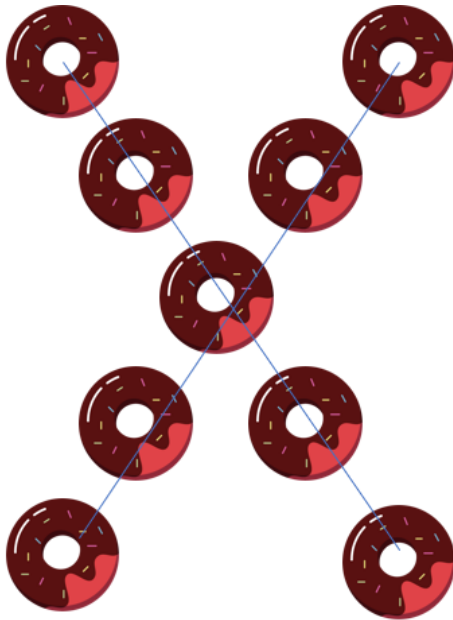


22  $T$

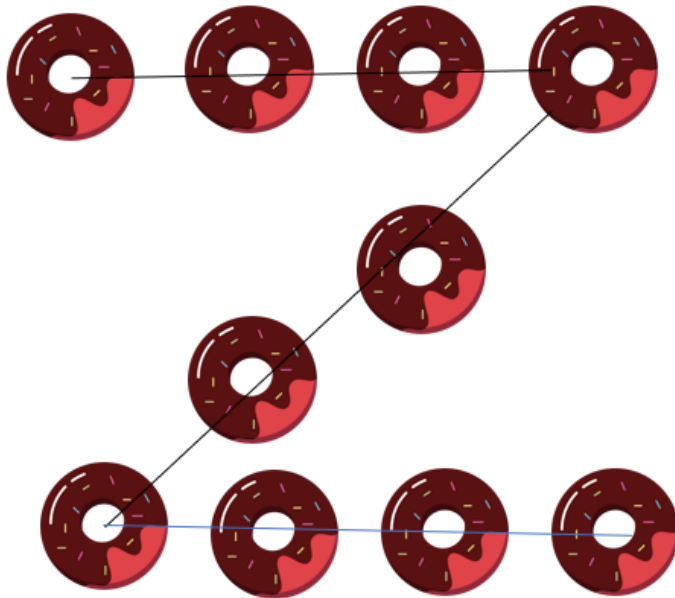




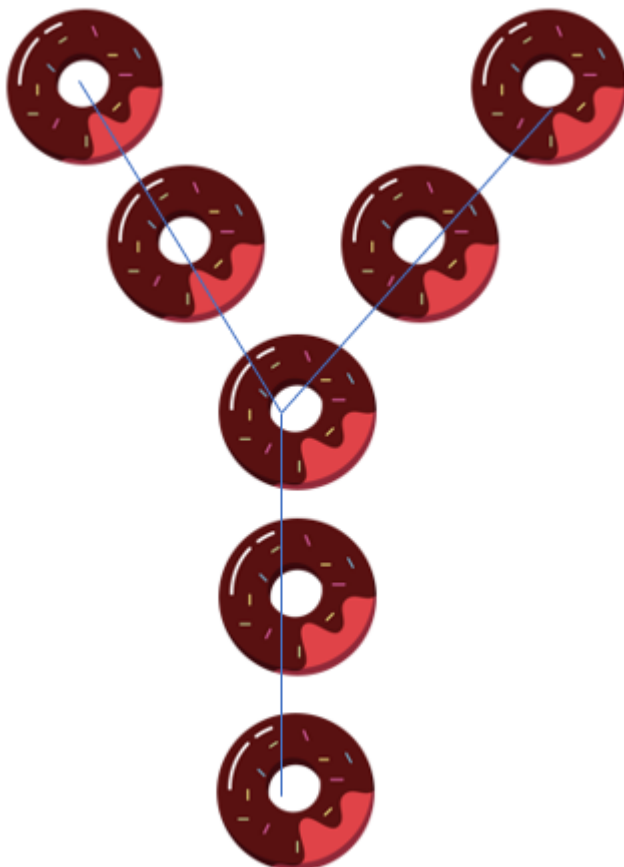
23 *x*



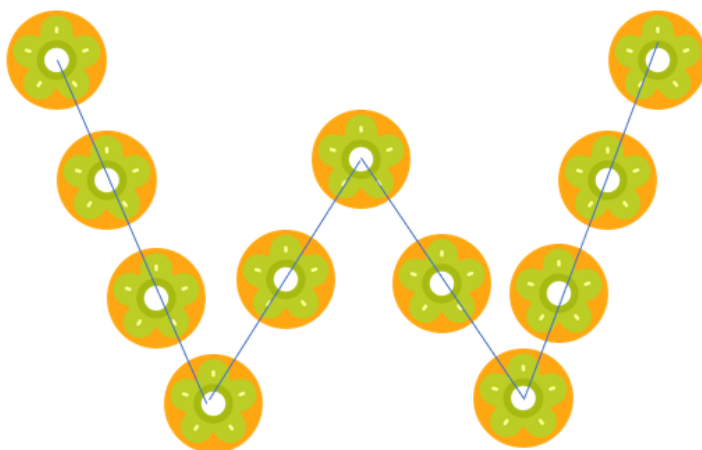
24 *z*



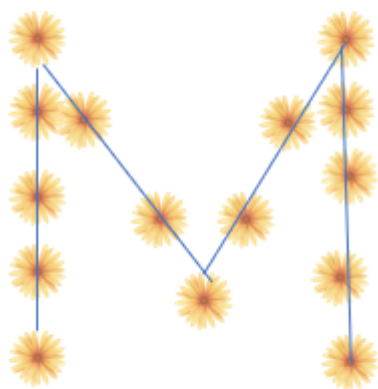
25 *y*



26 *w*



27 *M*



## Chapter 6 Subtraction within 10

1

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

2  $9 - 3 = 6$

$7 - 1 = 6$

3

|              |              |              |
|--------------|--------------|--------------|
| $5 + 3 = 8$  | $5 - 2 = 3$  | $1 + 6 = 7$  |
| $8 - 4 = 4$  | $3 - 1 = 2$  | $4 + 2 = 6$  |
| $6 - 4 = 2$  | $4 - 3 = 1$  | $8 - 3 = 5$  |
| $7 + 3 = 10$ | $1 + 9 = 10$ | $10 - 6 = 4$ |

4

|              |             |             |
|--------------|-------------|-------------|
| $5 - 3 = 2$  | $7 - 5 = 2$ | $7 - 4 = 3$ |
| $3 + 2 = 5$  | $3 - 2 = 1$ | $5 - 2 = 3$ |
| $6 - 3 = 3$  | $4 - 1 = 3$ | $4 - 3 = 1$ |
| $10 - 5 = 5$ | $1 - 1 = 0$ | $8 + 1 = 9$ |

5  $8 - 6 = 2$

$7 - 3 = 4$

6 A

7

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

8  $10 - 6 = 4$

$8 - 3 = 5$

9

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

10

|             |              |              |
|-------------|--------------|--------------|
| $1 + 1 = 2$ | $7 + 2 = 9$  | $8 - 5 = 3$  |
| $2 + 3 = 5$ | $3 + 1 = 4$  | $2 + 1 = 3$  |
| $5 + 4 = 9$ | $9 - 8 = 1$  | $4 + 3 = 7$  |
| $6 - 2 = 4$ | $10 - 6 = 4$ | $7 + 3 = 10$ |

11

|              |             |             |
|--------------|-------------|-------------|
| $9 + 1 = 10$ | $5 + 2 = 7$ | $2 + 3 = 5$ |
| $2 + 5 = 7$  | $6 - 2 = 4$ | $5 + 2 = 7$ |
| $10 - 4 = 6$ | $6 - 1 = 5$ | $9 - 3 = 6$ |
| $7 - 5 = 2$  | $1 + 7 = 8$ | $5 - 1 = 4$ |

12

$6 - 1 = 5$

$5 - 3 = 2$

13

$5 - 3 = 2$

$8 - 4 = 4$

14

$1:4$

$2:3$

$3:2$

15

$6 - 4 = 2$

$9 - 6 = 3$

16

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

17  $7 - 3 = 4$

$9 - 2 = 7$

18

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

19  $4 + 2 = 6$

$4 + 4 = 8$

20

|             |             |             |
|-------------|-------------|-------------|
| $1 + 4 = 5$ | $5 + 2 = 7$ | $5 - 4 = 1$ |
| $2 + 7 = 9$ | $6 - 1 = 5$ | $2 + 2 = 4$ |
| $6 + 3 = 9$ | $1 + 1 = 2$ | $3 + 3 = 6$ |
| $9 - 3 = 6$ | $2 + 3 = 5$ | $6 - 6 = 0$ |

**21**

|             |             |              |
|-------------|-------------|--------------|
| $8 - 4 = 4$ | $9 - 2 = 7$ | $7 - 4 = 3$  |
| $3 + 2 = 5$ | $6 + 3 = 9$ | $4 + 2 = 6$  |
| $5 + 3 = 8$ | $5 - 4 = 1$ | $4 + 4 = 8$  |
| $8 - 5 = 3$ | $2 + 1 = 3$ | $10 - 8 = 2$ |

**22**

|              |             |             |
|--------------|-------------|-------------|
| $6 - 1 = 5$  | $5 - 2 = 3$ | $3 - 1 = 2$ |
| $3 - 3 = 0$  | $7 - 3 = 4$ | $4 - 4 = 0$ |
| $6 - 5 = 1$  | $9 - 4 = 5$ | $1 - 1 = 0$ |
| $10 - 4 = 6$ | $5 - 1 = 4$ | $7 - 6 = 1$ |

**23**

$3 + 3 = 6$

$2 + 2 = 4$



24  $6 - 1 = 5$

$9 - 3 = 6$

25  $3$

# Chapter 7-12

## Chapter 7 Addition within 20

1 10;17

16;13

11;9

2 14;13

13;15

4;18

3 19;13

16;10

18;17

4 12;8

19;13

18;14

5 9;8

6;18

6;12

6 2;18

17;13

17;15

7 18;17

18;19

17;13

8 15;16

18;13

17;6

9 19;17

16;15

14;13

10 13;15

9;17

12;18

11 10;10

10;10

10;10

12 9;18

13;12

6;19

13 18;19

13;16

17;9

14 12;11

17;11

18;12

15 4;10

19;12

15;13

16 9;10

16;16

19;19

17 19;19

18;1

19;17

18 13;4

15;17

8;16

19 16;14

18;11

16;13

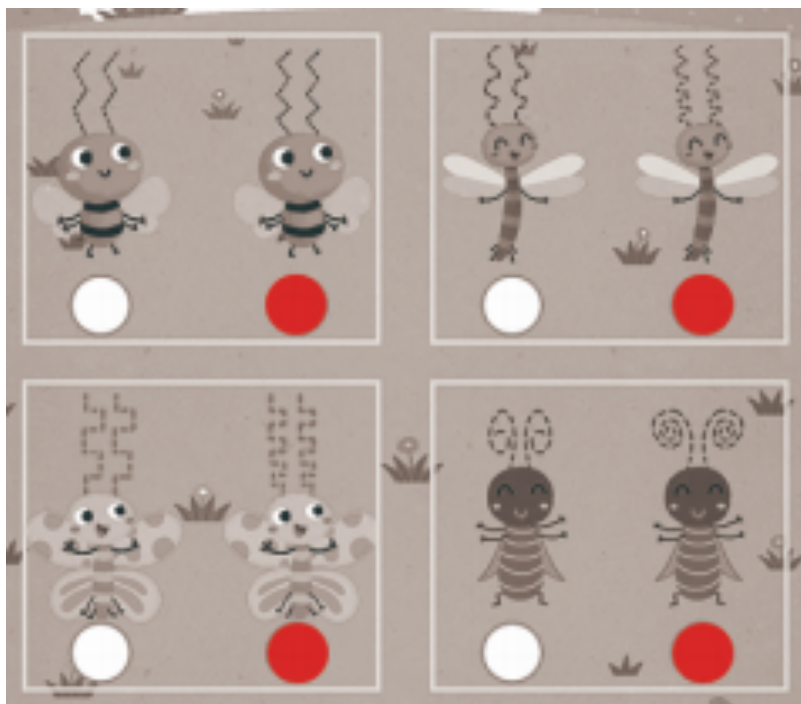
20 9;12

15;12

14;12

## Chapter 8 Compare Length

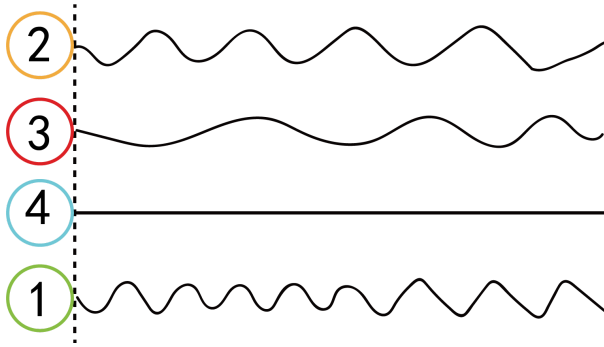
1



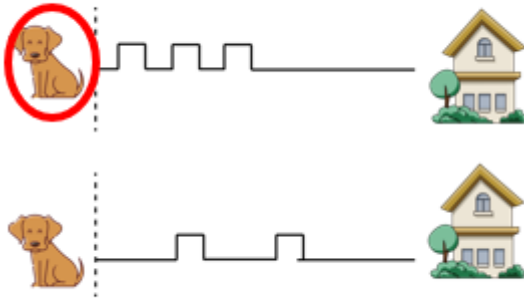
2



3



4



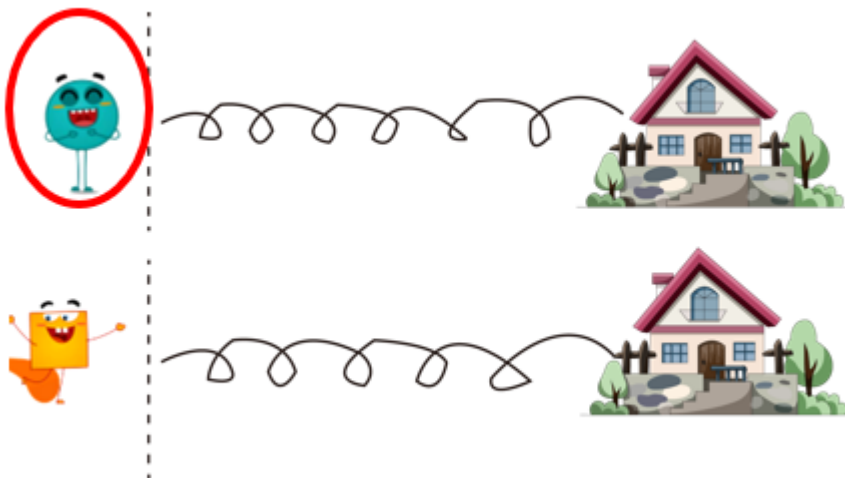
5

D

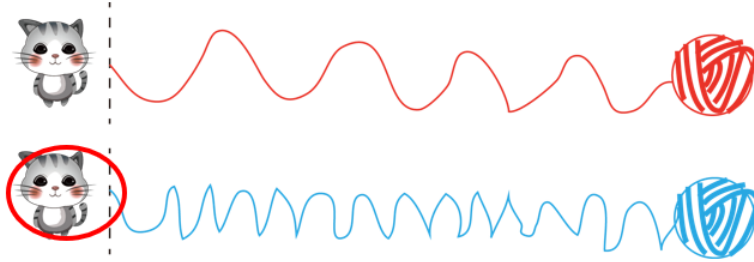
6

4 3 2 1.

7

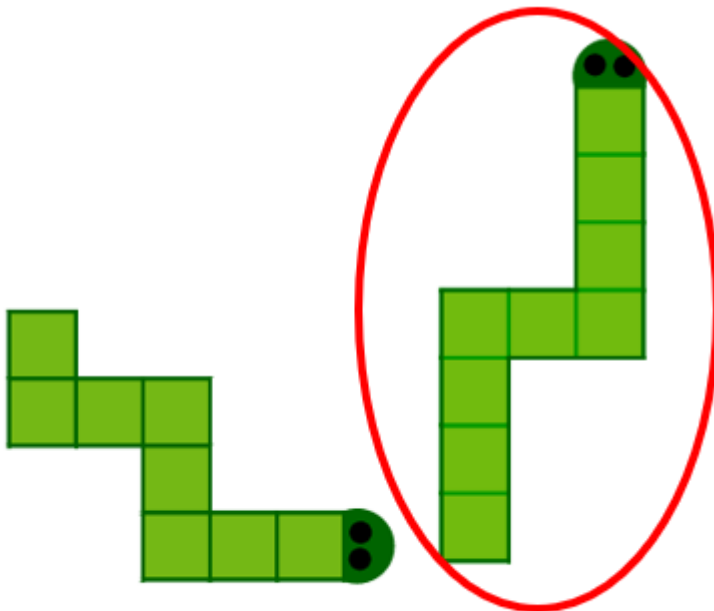


8



9 A

10



11 The third.

12 The red pencil.

13 Equal length.

14 The red arrow.

15 The black arrow.

16 The blue arrow.

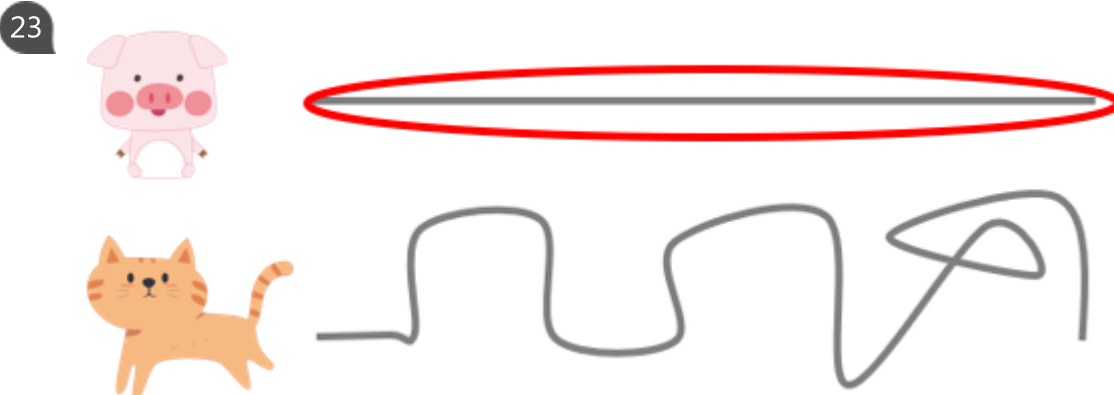
17 The blue arrow.

18 The red arrow.

19 The purple arrow.

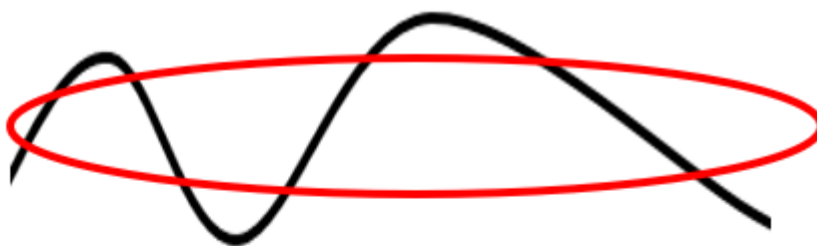
20 As long as.

21 The blue arrow.



24

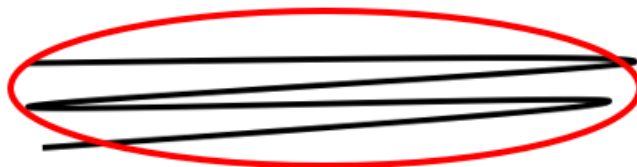




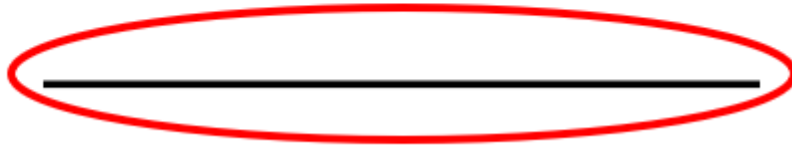
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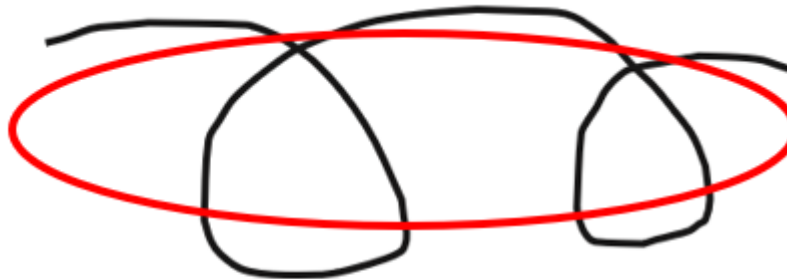
26



27



28



## Chapter 9 Subtraction

1 10;10

10;0

10;0

2 1;0

5;2

10;1

3 11;1

4;11

7;7

4 0;6

1;5

8;3

5 3;9

5;6

10;13

6 0;1

9;6

2;1

7 5;4

10;5

0;15

8 2;6

7;8

9;4

9 1;4

3;2

8;2

10 7,7

9,5

11,3

11 6,6

7,6

8,5

12 9,7

7,9

4,11

13 0,5

2,10

10,4

14 1,9

0,14

5,9

15 5,14

6,13

8,7

16 5,0

5,1

7,3

17 14;12

17;13

12;13

18 4;12

4;8

3;4

19 14;10

1;9

4;12

20 1;0

3;10

2;5

## Chapter 10 Pattern

1



2



3



4



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6



7



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12



13



14



15



16

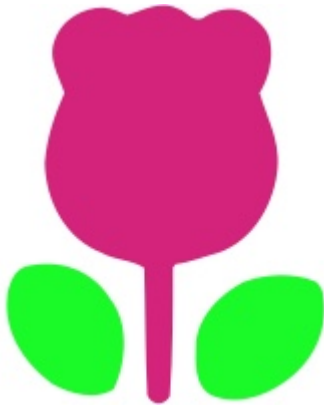


17



18

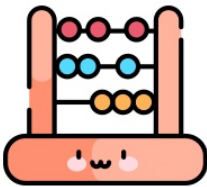




19



20



21



22



23



24



## Chapter 10 Cut & Form Shapes

1



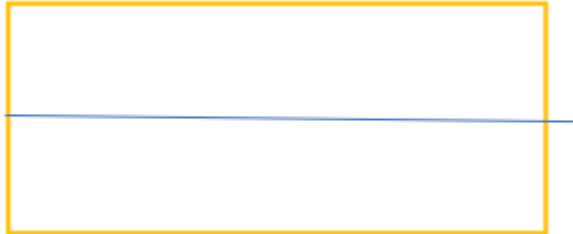
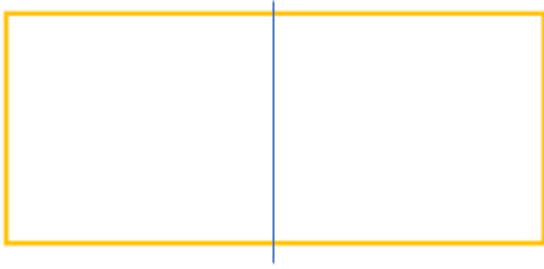
More than 1 correct answer.

2

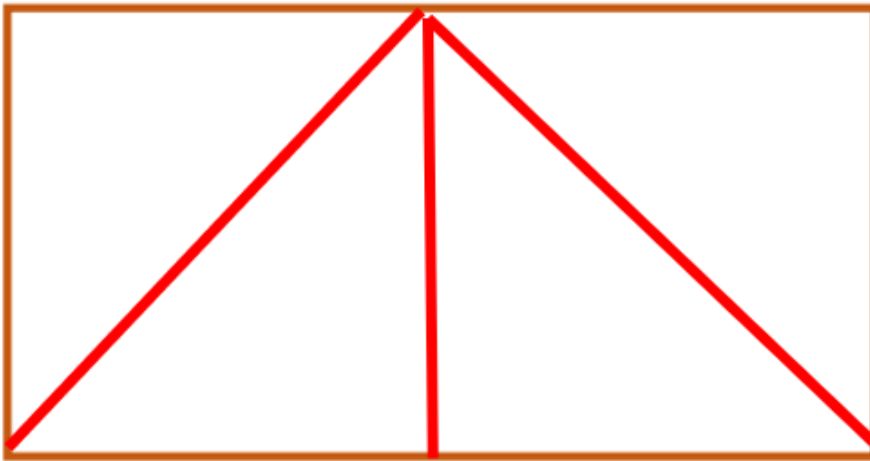


More than 1 correct answer.

3

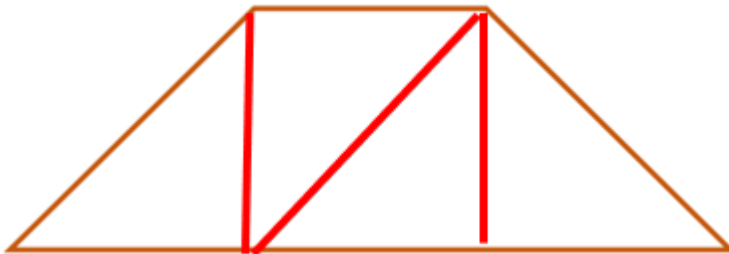


4



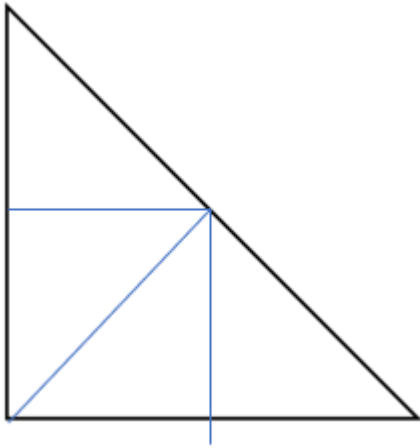
More than 1 correct answer.

5



More than 1 correct answer.

6



More than 1 correct answer.

7

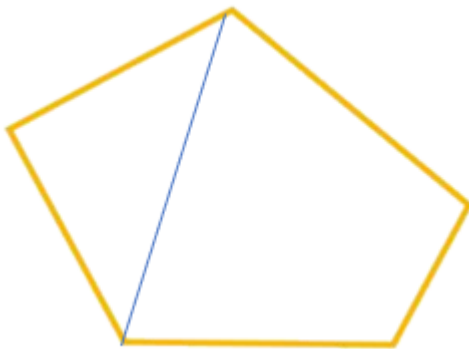


More than 1 correct answer.

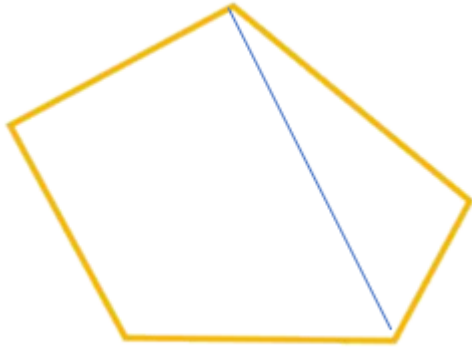
8

4

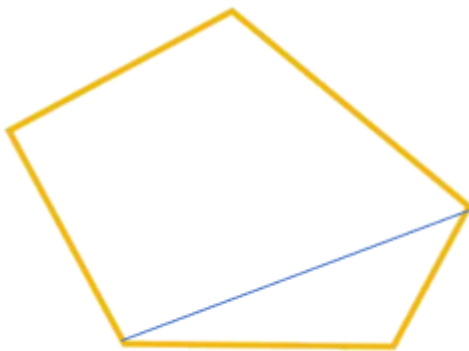
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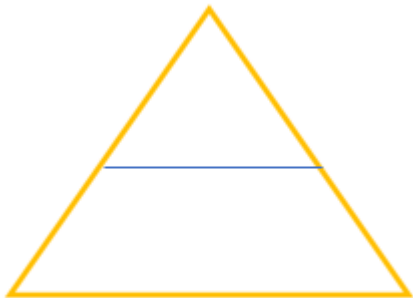
or



or



10



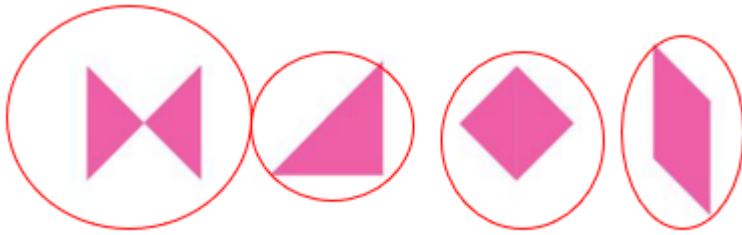
More than 1 correct answer.

11 Square, triangle and parallelogram

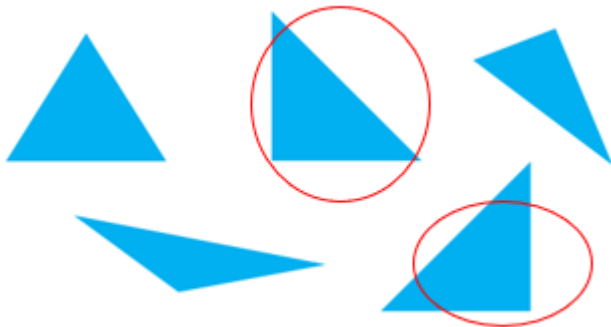
12



13



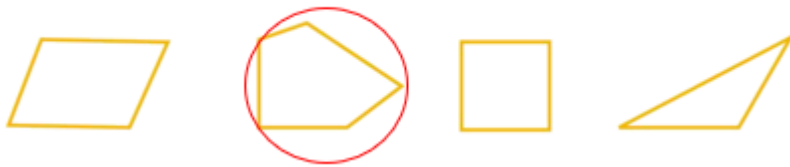
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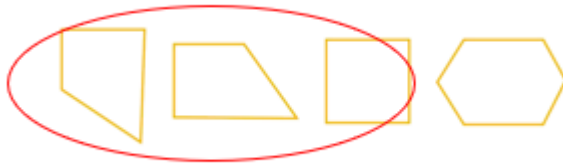
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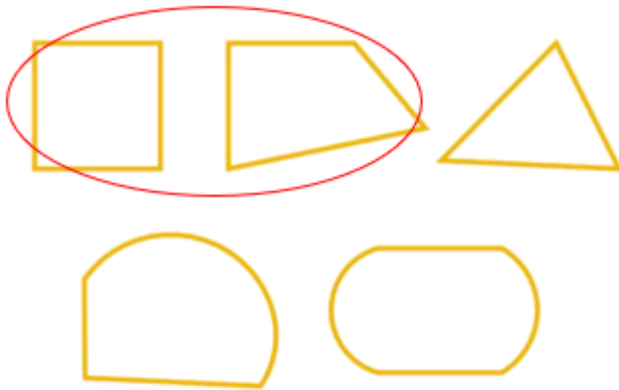
16



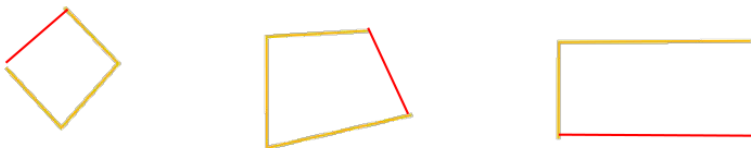
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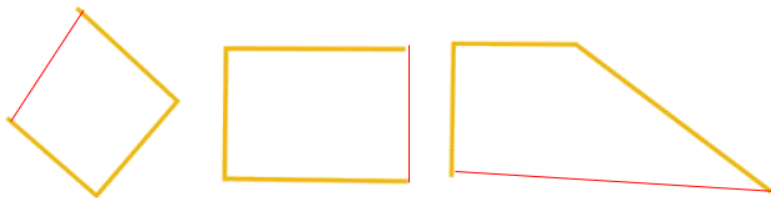
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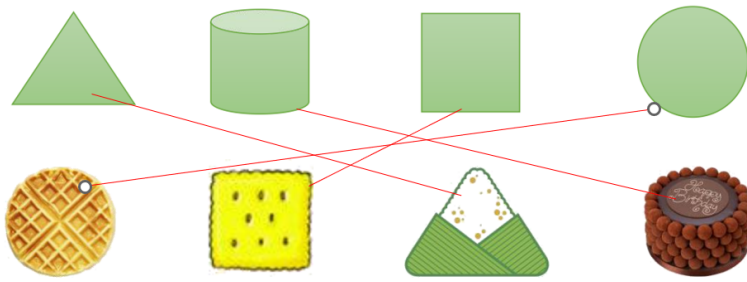
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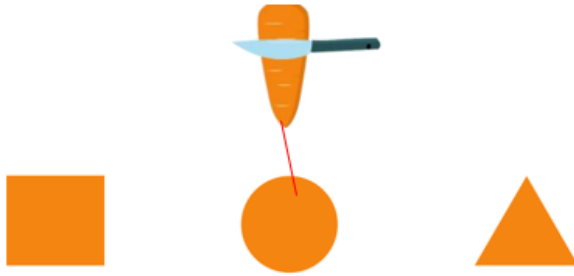
20



21



22



## Chapter 12 Direction

- 1 The red parrot is in front of the white one, because it partly covers the white parrot.
- 2 The moon is in front of the cloud, because it partly covers the cloud.
- 3 The sun is behind the cloud, because it is partly covered by cloud.
- 4 The pink seahorse is in the most front, because it is not covered by the yellow one.
- 5 The blue clock is in the most front, because it is not covered by the orange clock.
- 6 The fence are in front of the house, and the house is behind the fence.
- 7 The oranges are in front of the juice, and the juice is behind the oranges.



8 The steak.

9 The dolphin, because it is not covered.

10 The clownfish.

11 The red fish, because it's covered by the yellow fish, and the yellow fish is covered by the purple fish and the green fish.

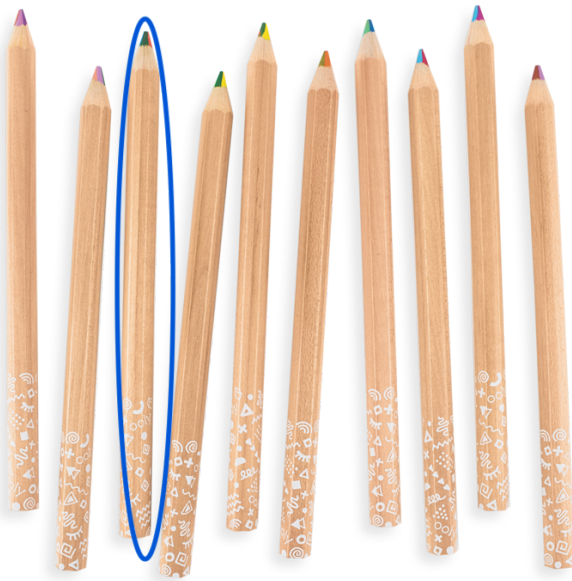
12 C 13 C 14 B 15 D 16 D

17 The strawberry.



21 4

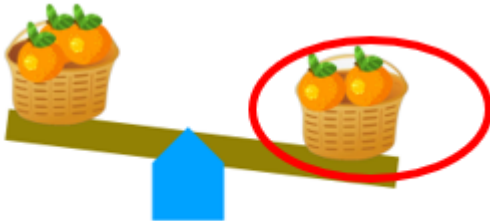




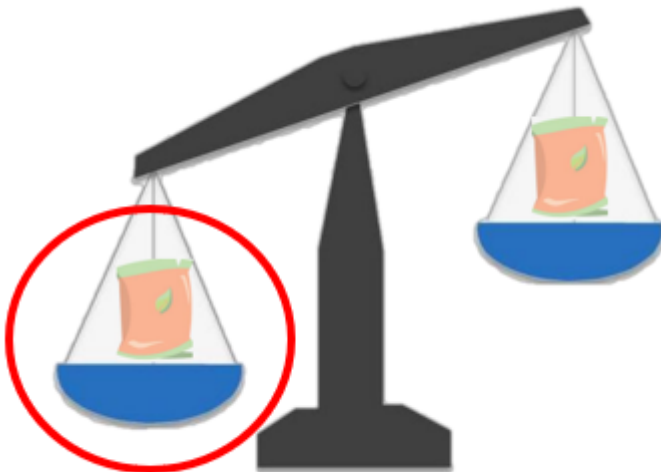
## Chapter 13-15

### Chapter 13 Balance

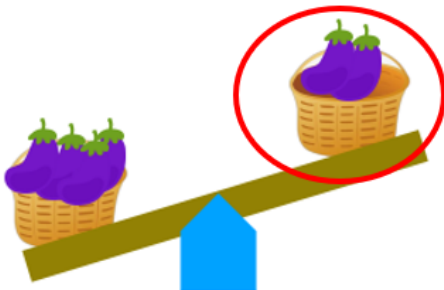
1



2



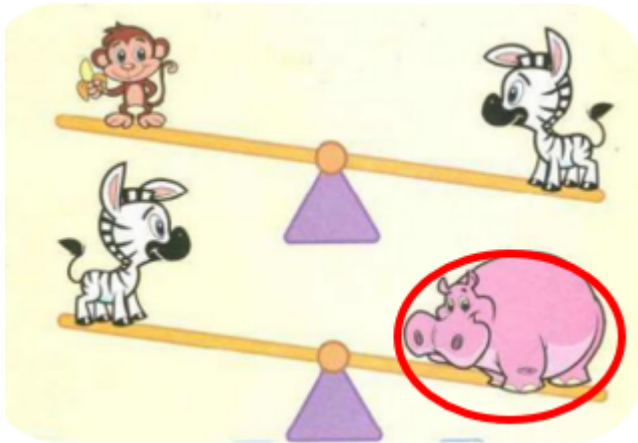
3



4

blue>white>black

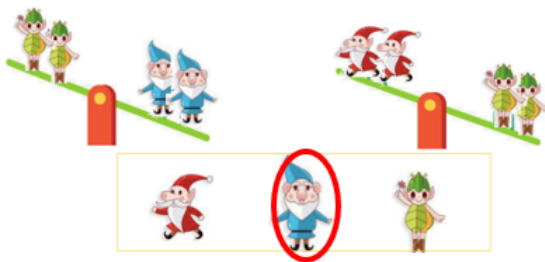
5



6



7



8

6

9

4

10

8

## Chapter 14 Addition & Subtraction

1

16; 4

6; 7

0; 6

2 10; 13

13; 20

8; 14

3 17; 7

19; 9

19; 19

4 10; 3

0; 13

4; 3

5 11; 15

8; 18

10; 8

6 11; 1

9; 0

1; 10

7 5; 7

11; 15

14; 16

8 11; 0

9; 10

1; 0

9 8; 0

12; 4

2; 16

10 1; 8

0; 3

1; 4

11 9; 7

4; 4

3; 8

12 18; 20

2; 10

0; 10

13 16; 12

10; 18

14; 16

14 5; 4

11; 3

8; 7

15 11; 13

13; 12

15; 12

16 4; 6

17; 8

20; 2

17 9; 10

9; 17

8; 20

18 10; 18

13; 7

16; 13

19 0; 15

5; 5

10; 5

20 8; 18

16; 16

19; 19

## Chapter 15 Pattern & Direction

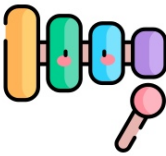
1



2



3



4



5



6





7



8



9



10

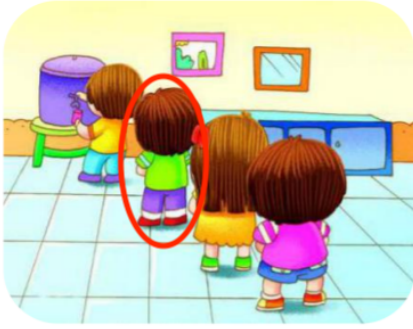


11

7

12

The kid in green shirt and purple pants.



13 The little girl.



14 5

15 4

Alternative:four

16 3

Alternative:three

17 5

Alternative:five

18 4

19 4

20



21

5

22

4

23

4

24

6

25





