Think Academy

Jolly Math



Grade K

Think Academy US ONLINE

Pre-K & Lower Elementary Math Program

Think Academy Pre-K and Lower Elementary Math Program is designed for ages **3–8**, offering a structured, year-round learning path based on North American standards. It builds **seven core abilities**—calculation, logic, spatial sense, measurement and data, creativity, expression, and critical thinking—to form a solid foundation for future STEM success.

The long-term program includes Honors and Challenge tracks tailored to each child’ s math level. **Both follow the same framework** to strengthen **thinking skills** from PreK–G2. The Challenge track **adds competition training** for a smooth transition to upper-elementary math contests.

PreK: The Pre-K course has no level divisions. Before entering Kindergarten, students take placement assessments; combined with classroom performance and learning goals, this determines the most suitable course level.

Honors: Focuses on developing seven core abilities, fostering interest and confidence in math, and building potential for advanced study and future competitions.

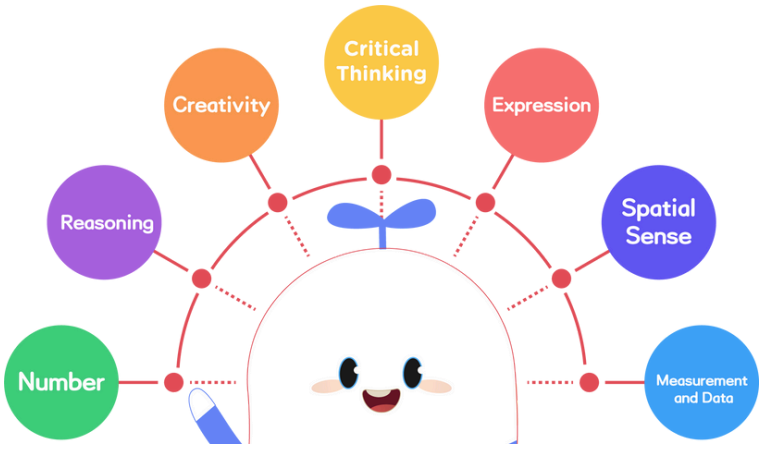
Challenge: Builds on the Honors curriculum with competition-focused enrichment aligned to the Math Kangaroo, encouraging children to explore and achieve in math contests from an early age.

Early childhood learning planning				
Tracks	Pre-K	K	G1	G2
Honors	Pre-K Think Ability	K Honors	G1 Honors	G2 Honors
Challenge		K Challenge	G1 Challenge	G2 Challenge
Competition				G2 Pre-ACE

What Are the Seven Core Abilities?

3 Comprehensive Output Skills – Apply What You Learn

4 Core Math Skills – Spark Interest in Learning



- Ages 3–8 are the key period for developing children's thinking skills
- Through scenario-based learning, we protect curiosity
- Enhance the joy of exploration, and help children build and strengthen their thinking frameworks
- Cultivating active thinking and lifelong learning ability

PreK-G2	G3-G5	G6-G8	G9-G12
Creativity	Complex Problem-Solving Ability Accelerated School Progress Competition Enrichment		
Critical Thinking			
Expression			
Reasoning	Word Problems		
Spatial Sense	Elementary Geometry	Introductory Algebra	Advanced Functions
Measurement and Data	Statistics and Graphs	Plane Geometry	High School Geometry
Number	Calculation and Smart Strategies	Science Courses	AP Science

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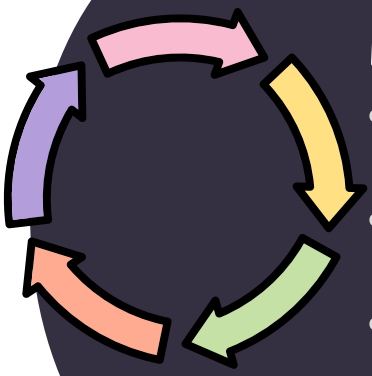
Course Highlights

Clear Structure, Worry-Free for Parents

Personalized Learning Plans with Full Progress Tracking



- **Before Enrollment:** Teachers create **personalized study plans** based on each student’ s goals and ability
- **During Learning:** Teachers give **regular feedback and targeted advice**, helping parents track progress
- **Mid-Term & Final Evaluations**: **Parent meetings** and updated study plans ensure steady improvement



Weekly Learning Cycle to Ensure Steady Progress

- **Pre-Class Preparation: 15-minute preview** to review key concepts and prepare for new lessons
- **Homework: Assigned after each class**, with teacher feedback shared with parents
- **Office Hour: Free live sessions** to review and clarify difficult problems
- **Homework Review Videos:** Each homework question includes a **detailed video explanation** for easy review

Year-Round Learning Support



- **Year-round Parent App service** providing fast responses
- Through the Parent App, parents get **direct contact with teachers** for efficient communication and real-time progress updates
- Instant online homework help for **timely learning support**

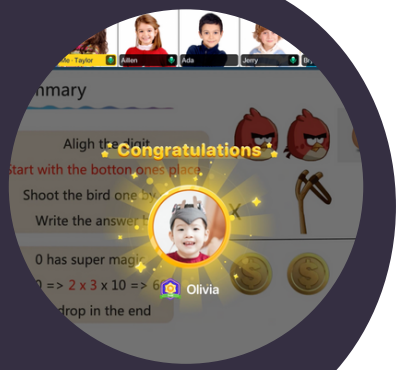
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Course Highlights

Happy Learning, Better Results

Thoughtfully Crafted Lessons Inspire a Love for Math

- **Interactive games and scenario-based teaching** make math fun and engaging
- **Gold coin reward system** lets students exchange coins for prizes, motivating them to complete learning tasks actively





Self-Developed Learning App Enhances Every Online Class

- **Think Academy learning app** enhances in-class interaction with hand-raising, polls, and group activities —**keeping students engaged every three minutes**
- Teachers **track progress in real time** for an effective learning experience

A Sense of Achievement Builds Intrinsic Motivation

- Students learn efficiently in class and get **full after-class support** with detailed homework videos and free weekly Office Hours.
- Students **gain higher grades, faster progress**. They are naturally motivated to put more effort in STEM learning and become **confident math learners**



Contents

Chapter 1 Count I / 1

Chapter 2 Compare / 19

Chapter 3 Count II / 28

Chapter 4 Addition & Subtraction within 10 (1) / 39

Chapter 5 Draw Shapes / 52

Chapter 6 Addition & Subtraction within 10 (2) / 66

Chapter 7 Addition within 20 / 83

Chapter 8 Compare Length / 93

Chapter 9 Subtraction / 108

Chapter 10 Pattern / 118

Chapter 11 Cut & Form Shapes / 130

Chapter 12 Direction / 141

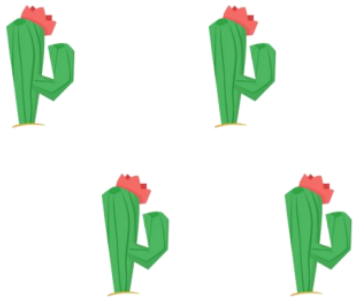
Chapter 13 Balance / 155

Chapter 14 Addition & Subtraction within 20 / 160

Chapter 15 Pattern & Direction / 170

Chapter 1 Count I

1 Count!





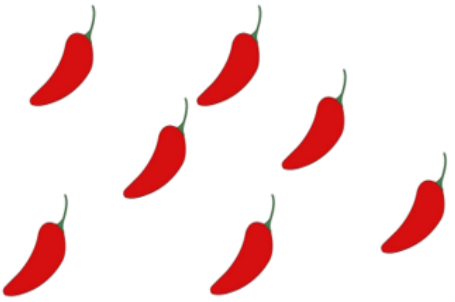
2 Count!



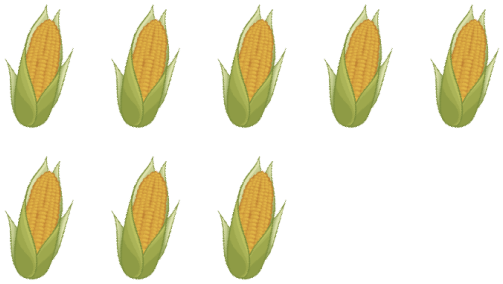


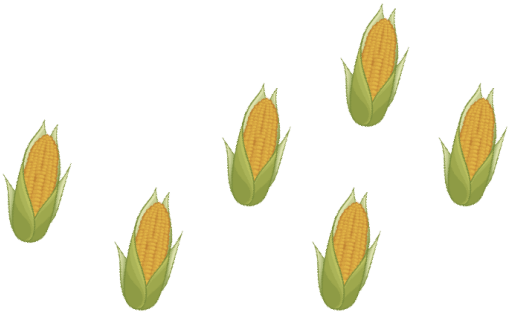
3 Count!



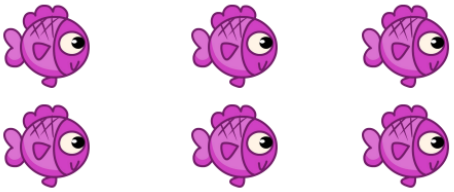


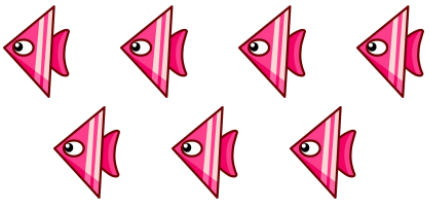
4 Count!





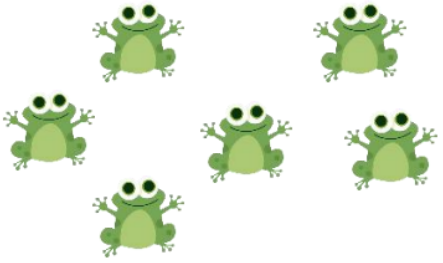
5 Count!





6 Count!



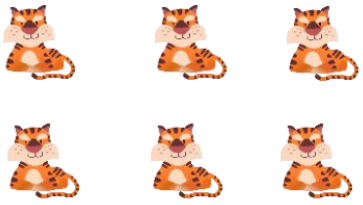


7 Count!





8 Count !





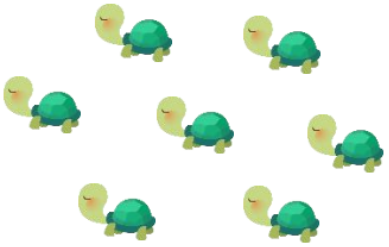
9 Count !





10 Count!



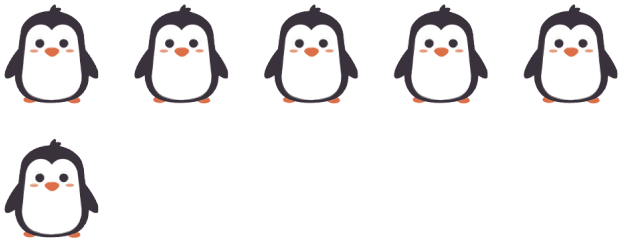


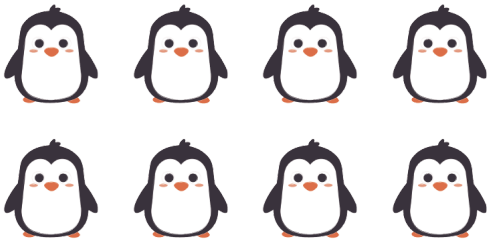
11 Count!



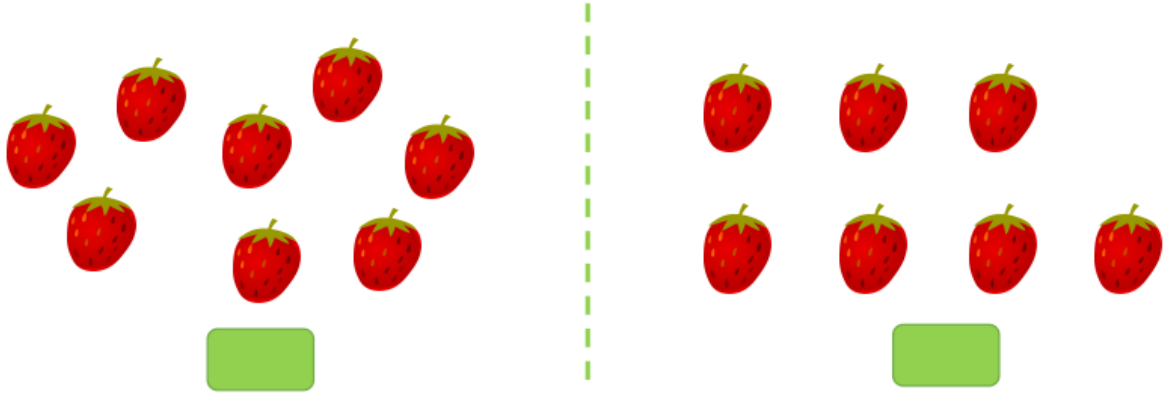


12 Count!





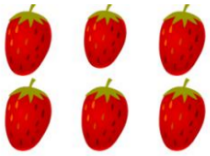
13 Count!

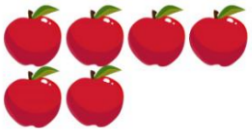


14 Count!



15 Count!



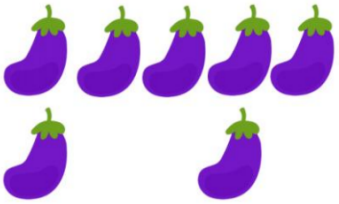




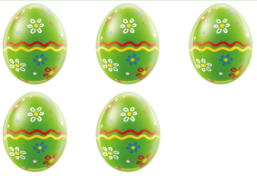
16 Count!







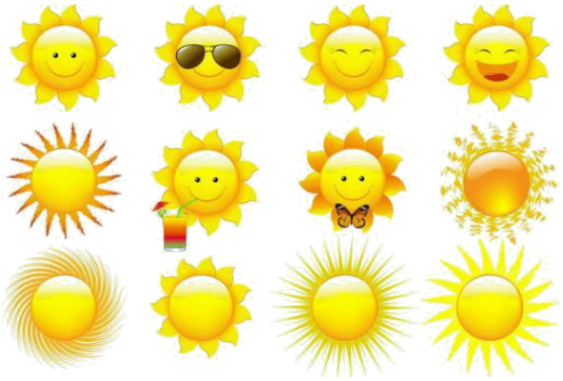
17 Count!

18 Count!



19 Count!



20 Count!



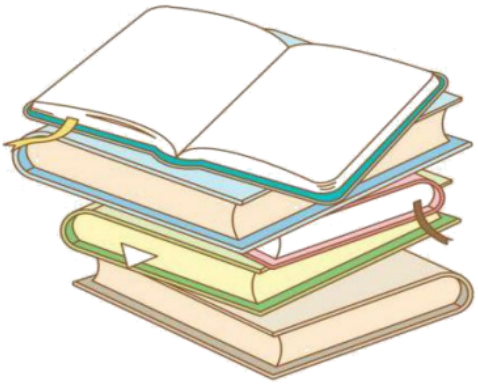
21 Count!



22 Count!



23 Count!



24 Count!



25 Count the number of legs!



26 Count!



27 Count!





28 Count!



29 Count!



30 Count!



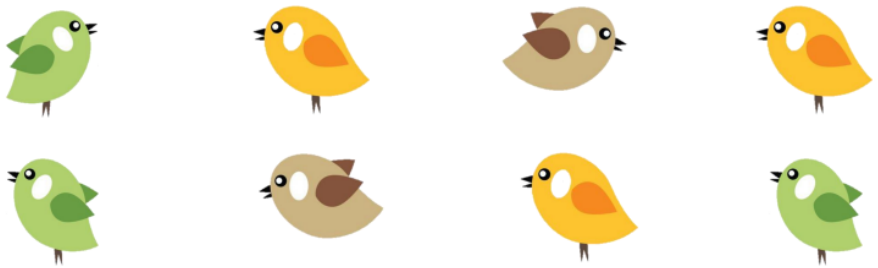
31 How many pairs of heels are there?



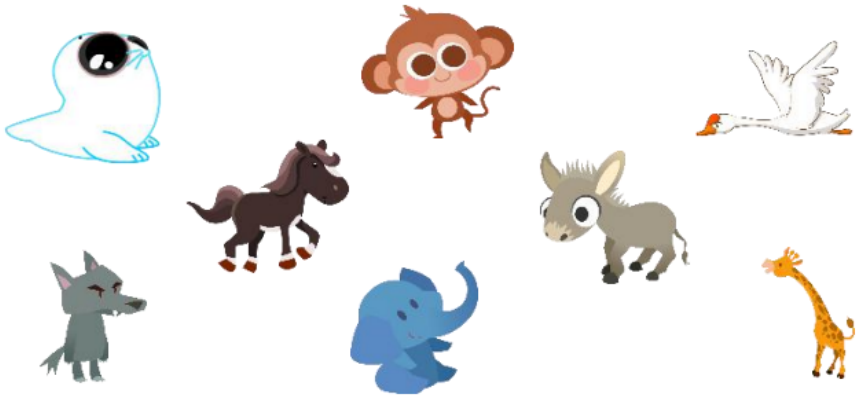
32 How many animals are there?



33 How many birds are there?



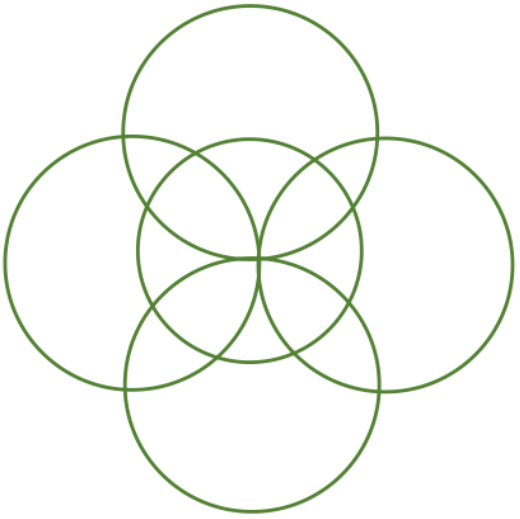
34 How many animals are there?



35 How many flowers are there?

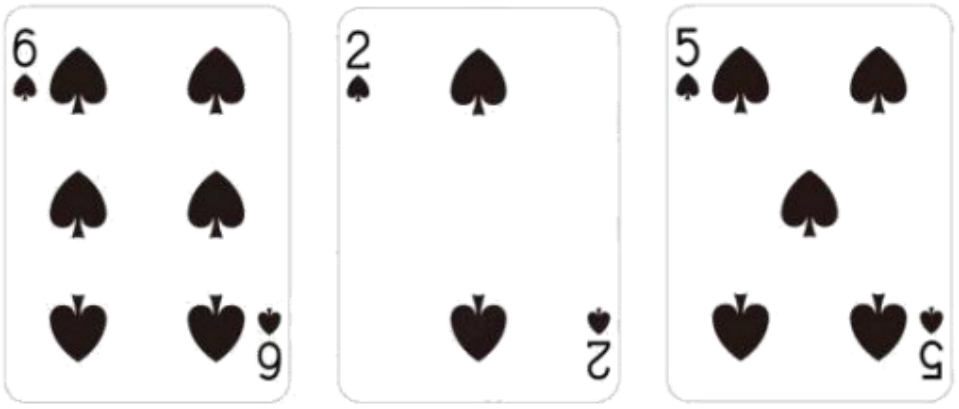


36 How many circles are there?

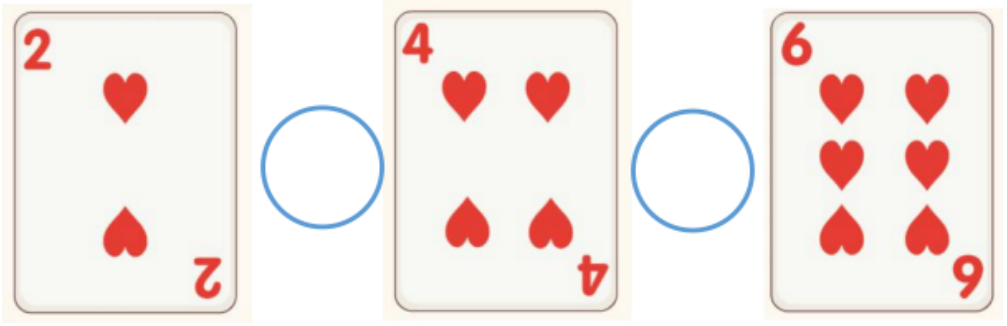


Chapter 2 Compare

1 Circle the card with the largest number!



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



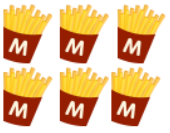
3 Which food on the right has the same number of oranges on the left?











4 Who has more, and how many more?

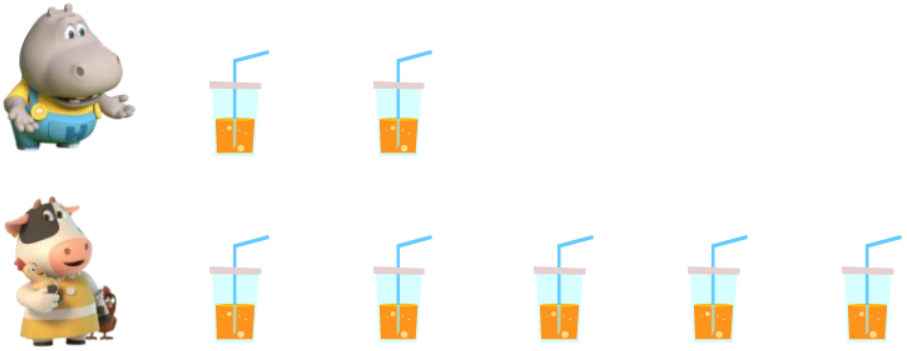








5 Who has more, and how many more?



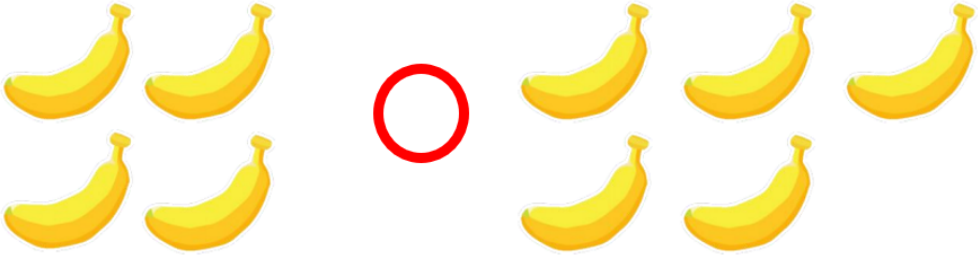
6 How many stars can there be in the box?



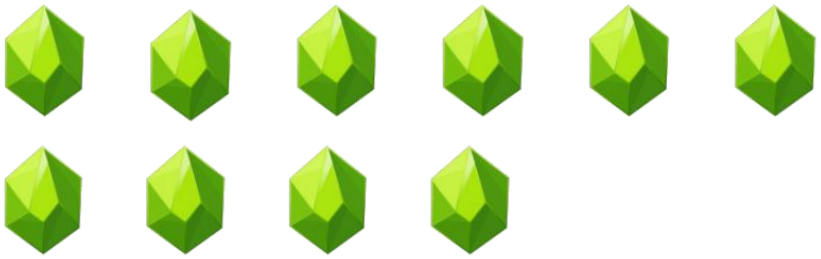
7 Which fruit is the most?



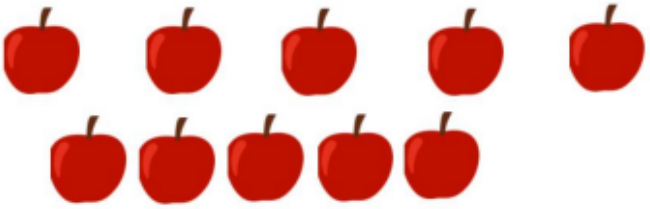
8 Fill ">" or "<" in the circle.



9 Which row has more, and how many more?



10 Which row has more apples?



11 Which two kinds of foods have the same number?



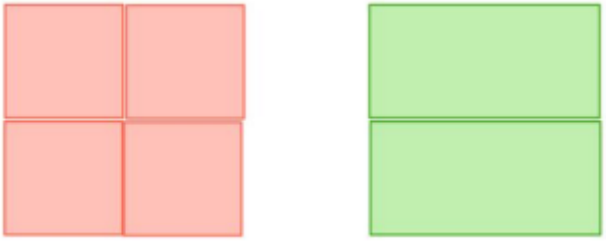
12 How many oranges and strawberries are there? Which fruit has more?



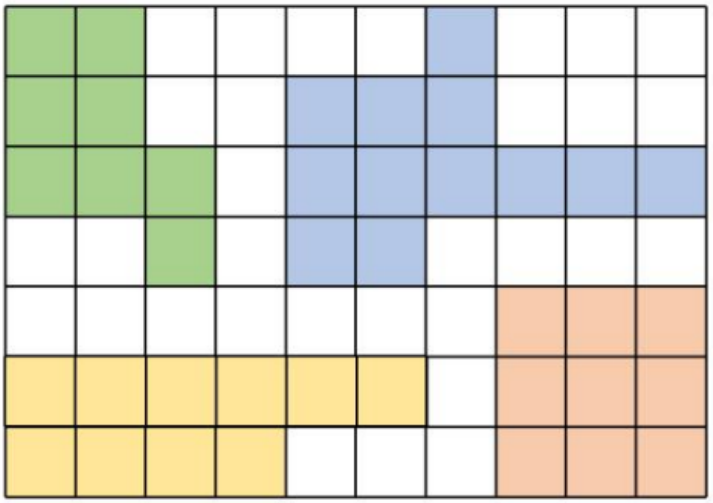
13 Which tree has the most apples? How many does it have?



14 Which cookie is larger?

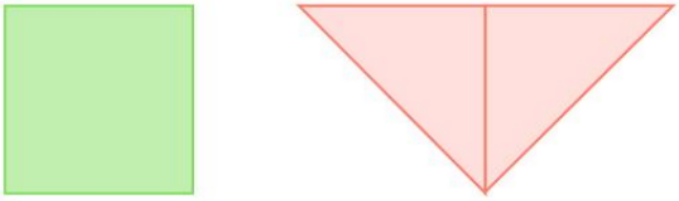


15 Which color of the block is the largest?



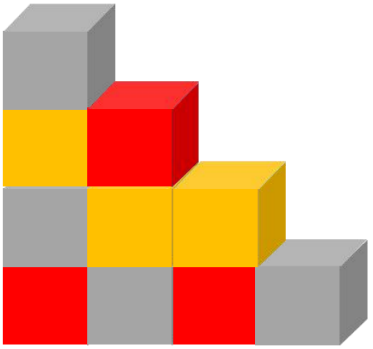
16 Which color of the figure is larger?

17 Which color of the figure is larger?

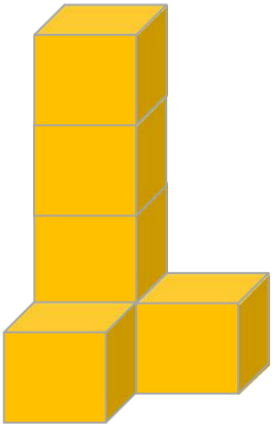


Chapter 3 Count II

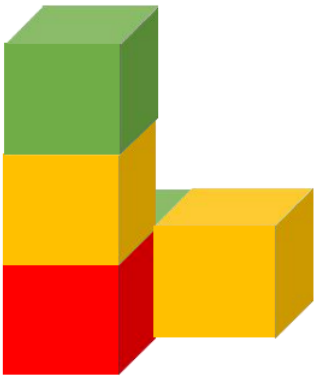
1 How many cubes are there?



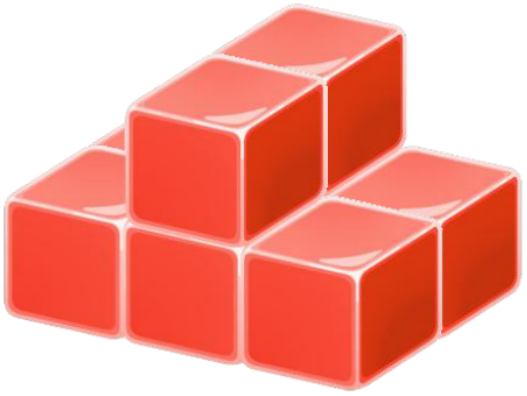
2 How many cubes are there?



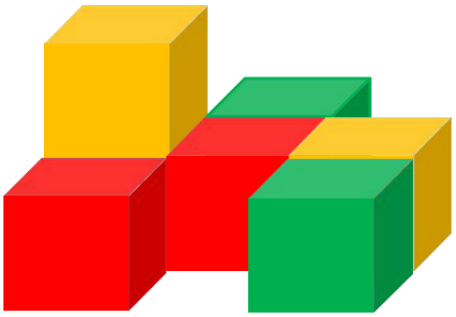
3 How many cubes are there?



4 How many cubes are there?



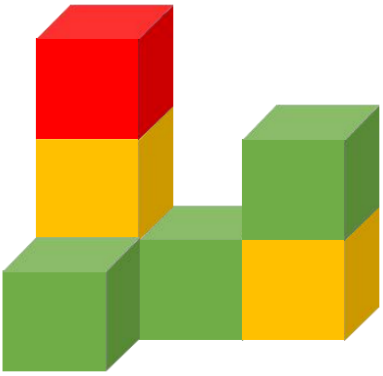
5 How many cubes are there?



6 How many cubes are there?



7 How many cubes are there?



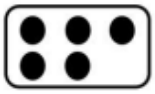
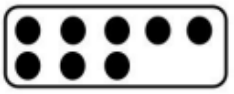
8 There are _____ kinds of fruits, and _____ kinds of vegetables.

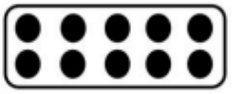


9 Count the number of each item and then match!





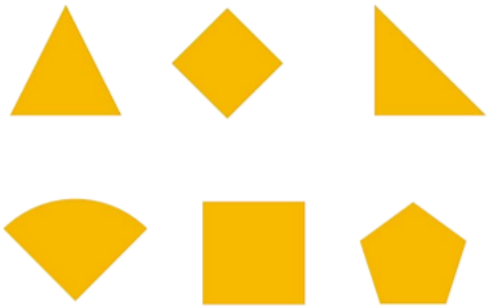






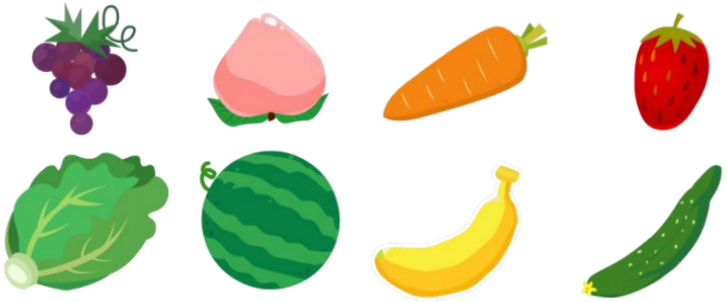
10 How many bubbles are left if removing all the yellow bubbles?



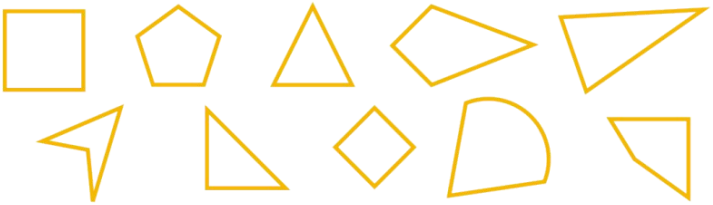
11 How many triangles are there?



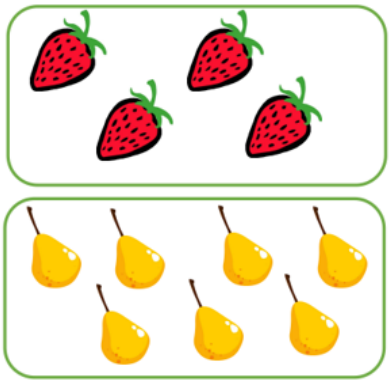
12 There are _____ kinds of fruits, and _____ kinds of vegetables.

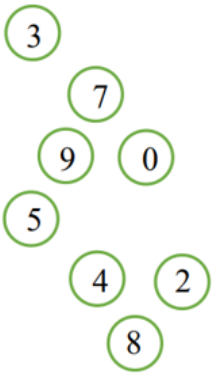


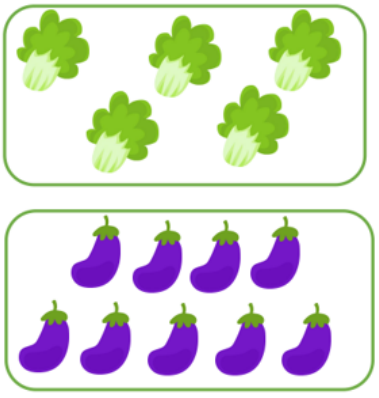
13 How many triangles are there?



14 Count the number of each item and then match!







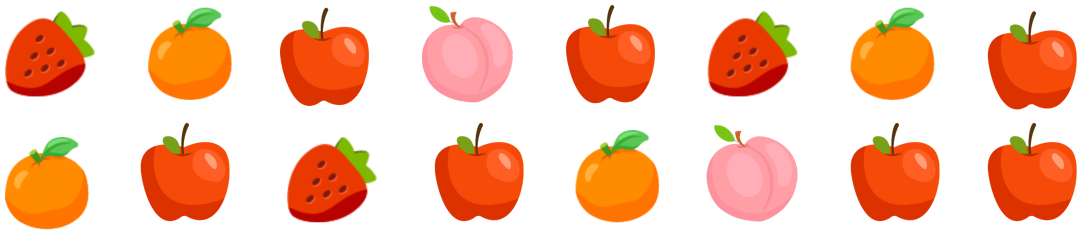
15 Circle seven donuts!



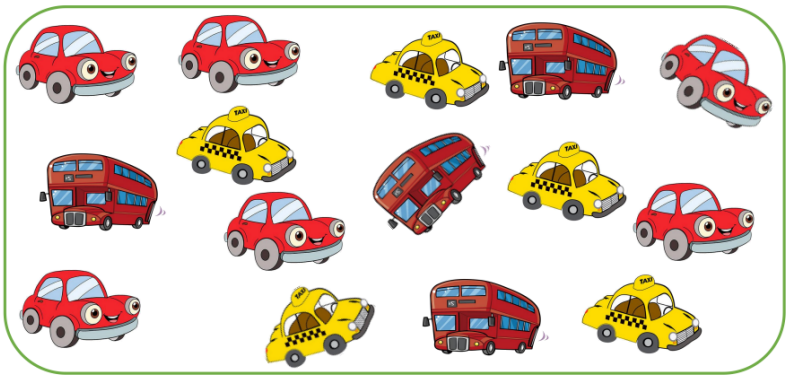
16 How many digit 5s are there? Circle them.

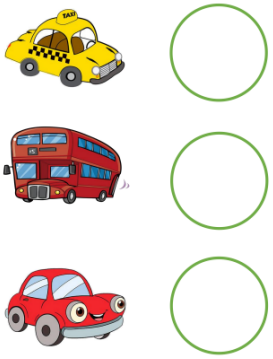


17 How many apples are there?



18 How many toy cars are there?

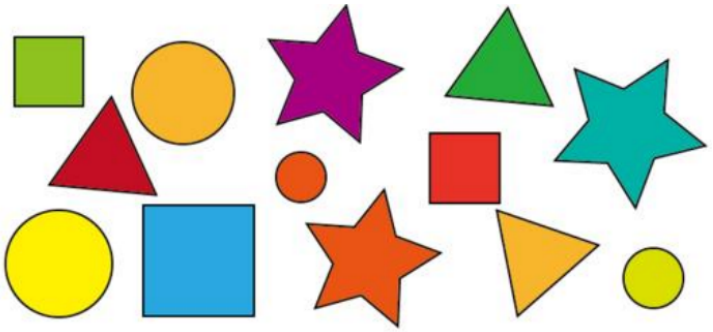




19 Which fruit has 5? Find it.



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?





_____



_____



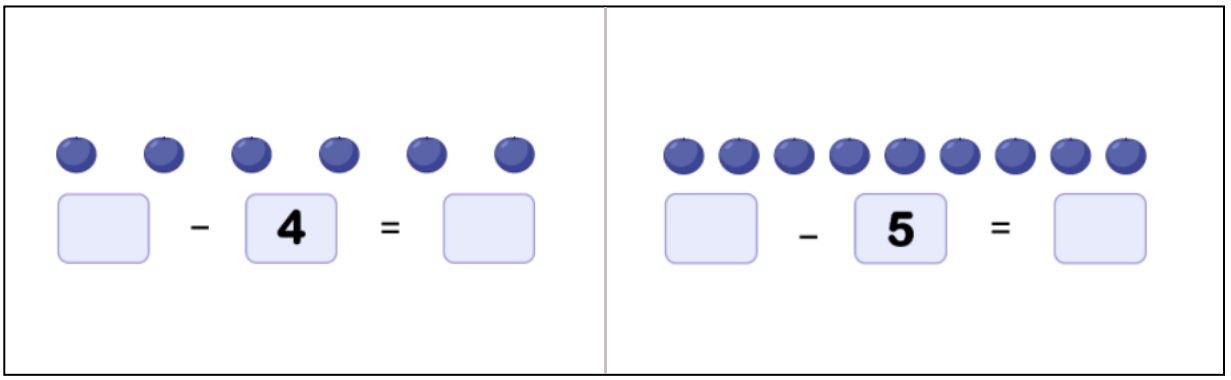
_____

22 Record the number of each fruit!

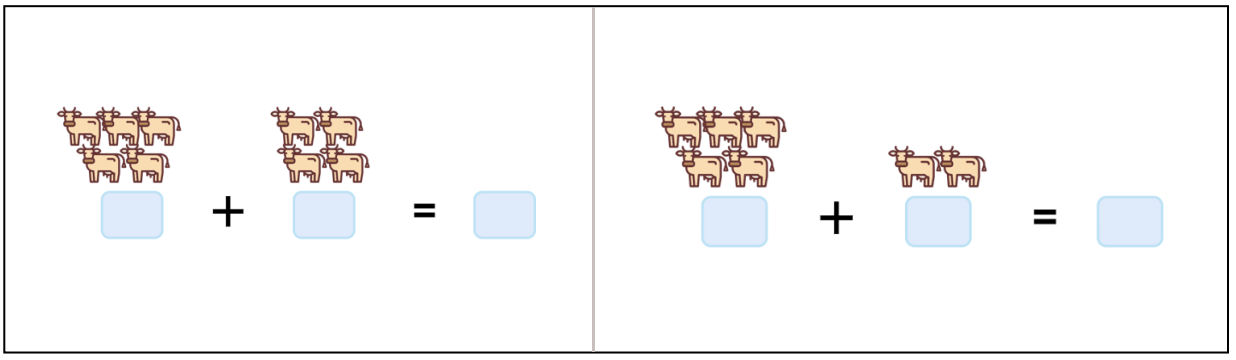


Chapter 4 Addition & Subtraction within 10 (1)

1 Cross off some fruits and do subtraction.



2 Write addition with cows.



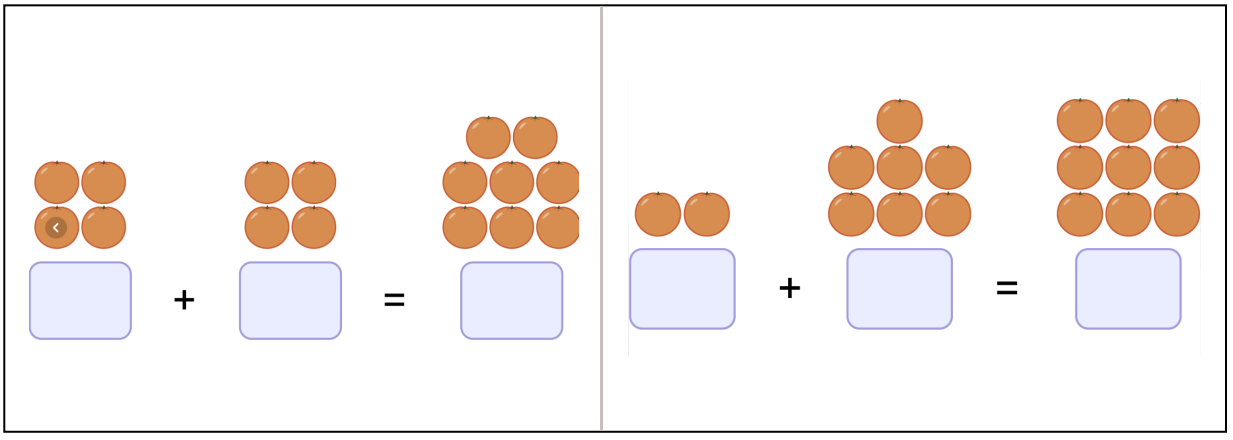
3 $1 + 8 =$ $1 + 7 =$ $1 + 6 =$

$4 + 1 =$ $4 + 2 =$ $4 + 3 =$

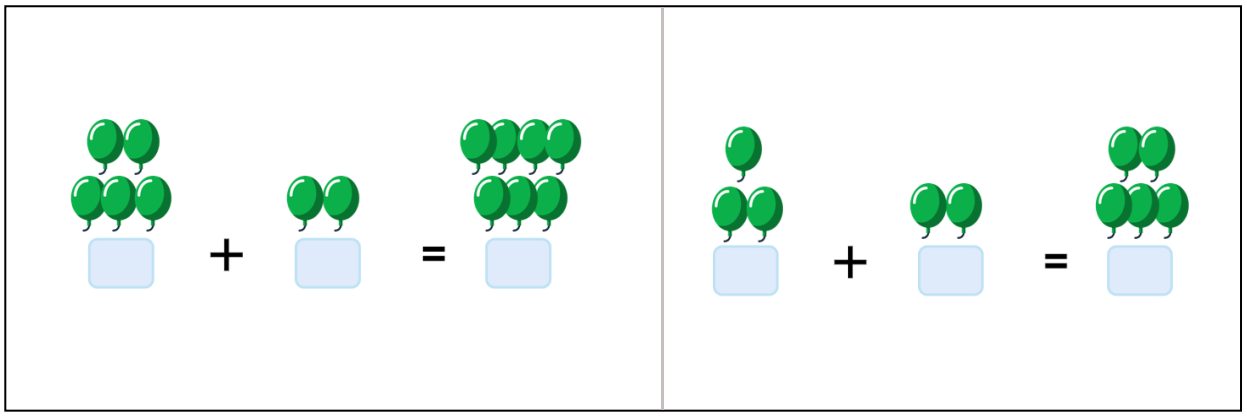
$2 + 5 =$ $1 + 1 =$ $1 + 3 =$

$4 + 2 =$ $3 + 1 =$ $3 + 2 =$

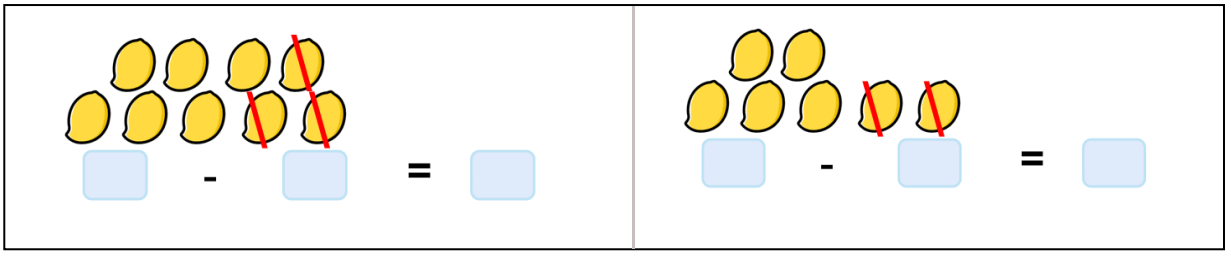
4 Write addition with fruits.



5 Write addition with balloons.



6 Write subtraction with fruits.



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 =

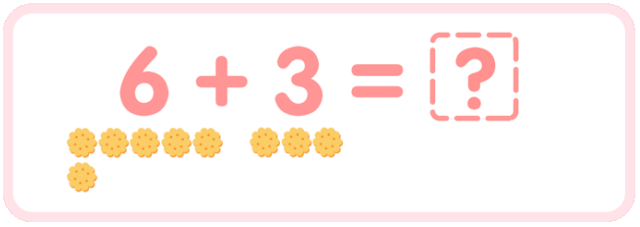
9 $5 - 4 =$ $8 - 2 =$ $6 - 5 =$

$4 - 2 =$ $7 - 3 =$ $9 - 4 =$

$5 - 5 =$ $7 - 4 =$ $9 - 1 =$

$6 - 2 =$ $9 - 2 =$ $9 - 6 =$

10 How many cookies are there in total?



A. 7 B. 8 C. 9

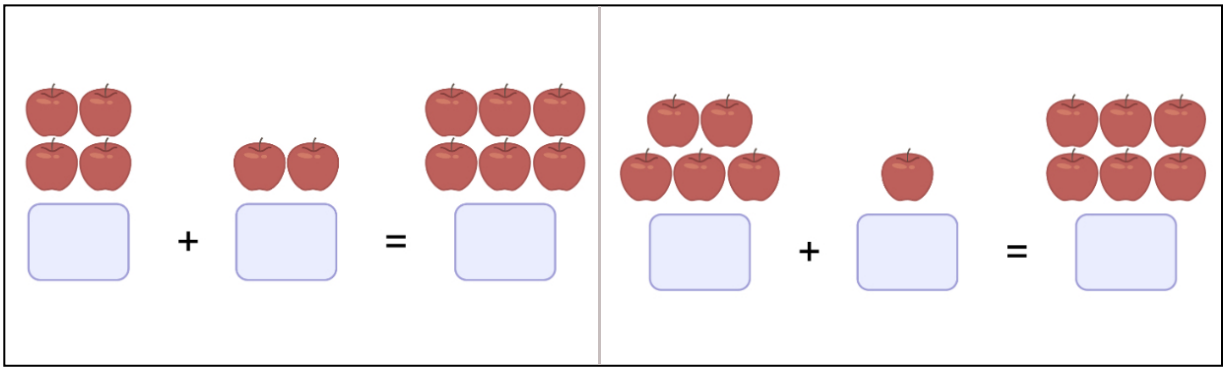
11 $5 + 1 =$ $1 + 6 =$ $2 + 3 =$

$1 + 1 =$ $6 + 3 =$ $3 + 4 =$

$2 + 2 =$ $4 + 4 =$ $3 + 5 =$

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

12 Write addition with fruits.



13 $7 - 1 =$ $6 - 2 =$ $6 - 5 =$

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

$10 - 5 =$ $10 - 4 =$ $9 - 9 =$

$5 - 4 =$ $1 - 1 =$ $8 - 8 =$

14 $2 + 1 =$ $1 + 3 =$ $2 + 4 =$

$6 + 3 =$ $2 + 3 =$ $3 + 5 =$

$2 + 5 =$ $1 + 4 =$ $3 + 1 =$

$1 + 2 =$ $3 + 3 =$ $2 + 2 =$

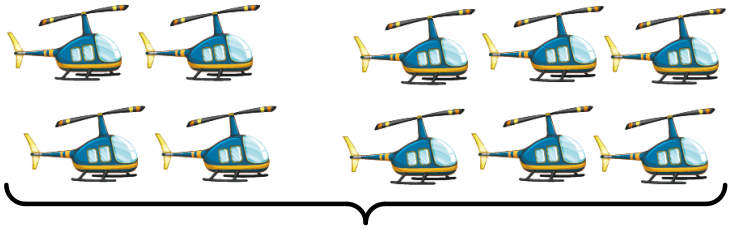
15 $3 + 3 =$ $1 + 1 =$ $2 + 2 =$

$7 + 1 =$ $4 + 3 =$ $5 + 3 =$

$1 + 3 =$ $7 + 2 =$ $4 + 4 =$

$2 + 6 =$ $1 + 6 =$ $2 + 1 =$

16 How many helicopters are here?



?

_____ + _____ = _____

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 =

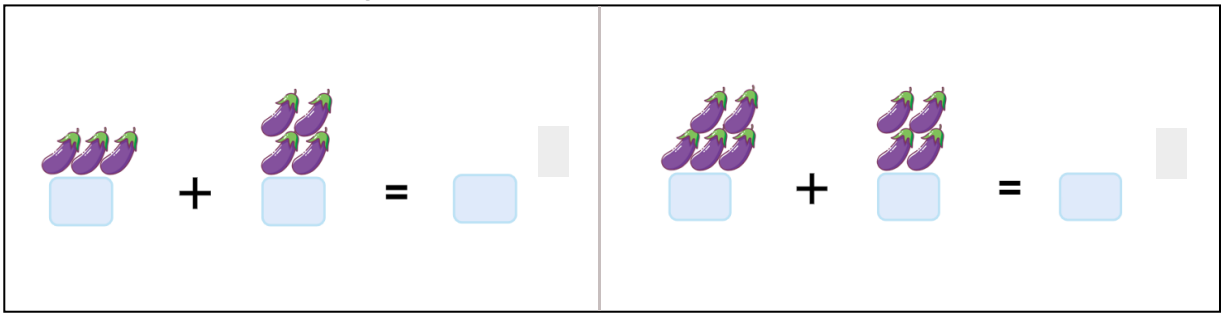
18 3 – 2 =　　10 – 4 =　　5 – 3 =

5 – 2 =　　3 – 3 =　　7 – 4 =

4 – 3 =　　8 – 4 =　　9 – 2 =

4 – 1 =　　7 – 4 =　　8 – 7 =

19 Write addition with vegetables.



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 $10 - 1 =$ $5 - 2 =$ $1 - 1 =$

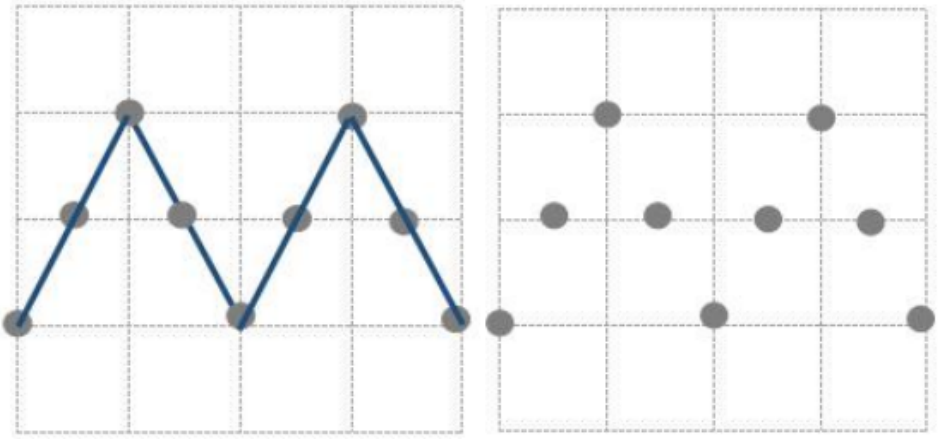
$6 - 2 =$ $9 - 3 =$ $9 - 3 =$

$10 - 5 =$ $8 - 4 =$ $3 - 2 =$

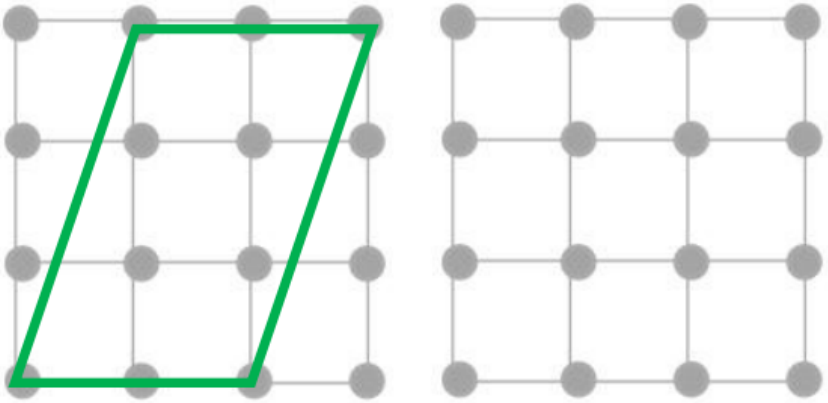
$7 - 4 =$ $2 - 1 =$ $9 - 6 =$

Chapter 5 Draw Shapes

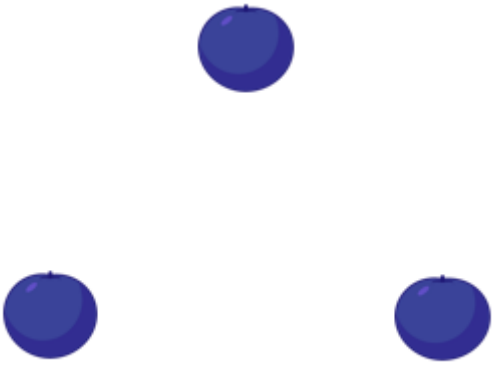
1 Can you copy down the left picture?



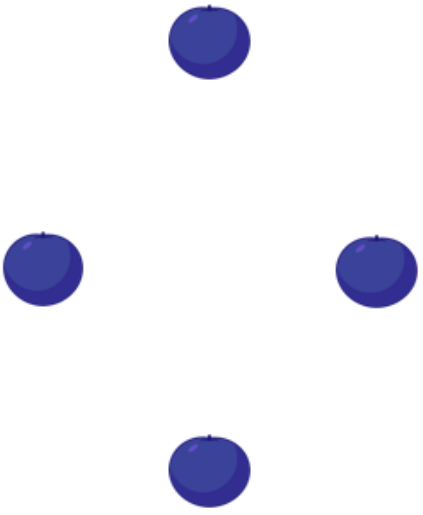
2 Can you copy down the left picture?



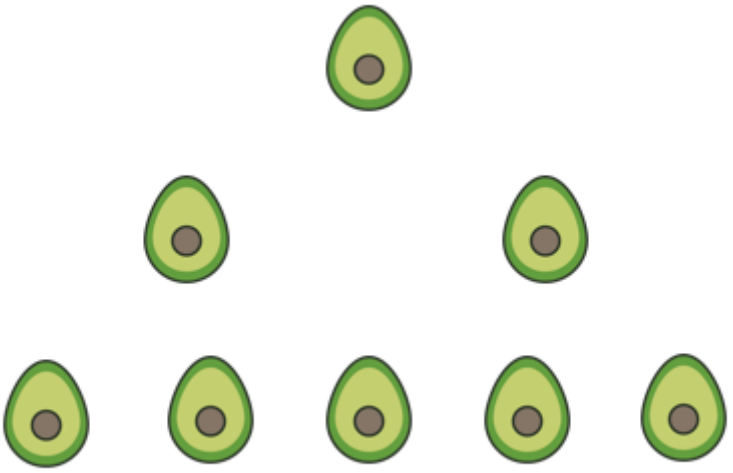
3 What shape can you form by connecting the blueberries ?



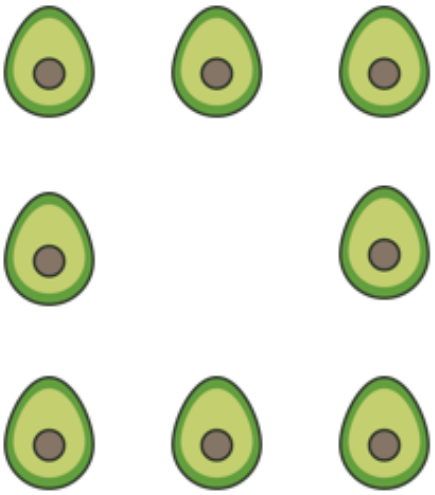
4 What shape can you form by connecting the blueberries ?



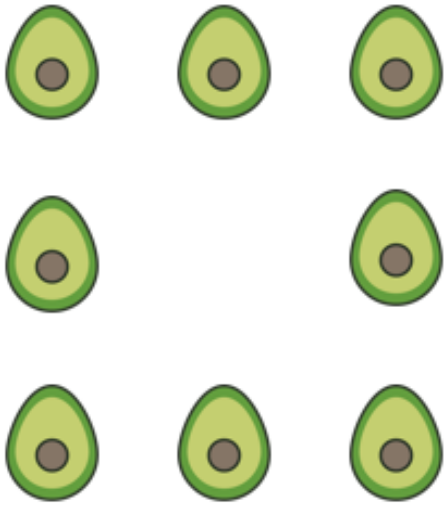
5 What shape can you form by connecting the kiwi fruits ?



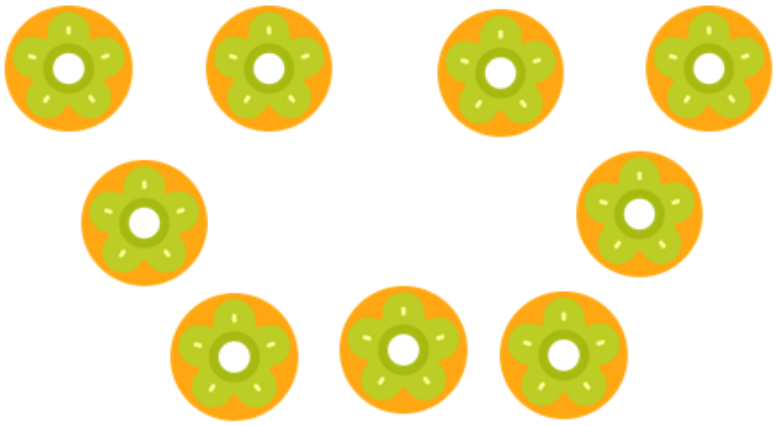
6 What shape can you form by connecting the kiwi fruits ?



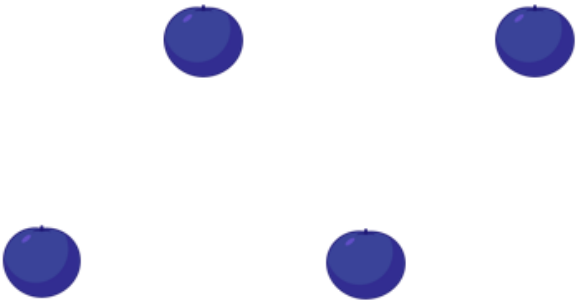
7 What shape can you form by connecting the kiwi fruits ?



8 What shape can you form by connecting the cakes ?



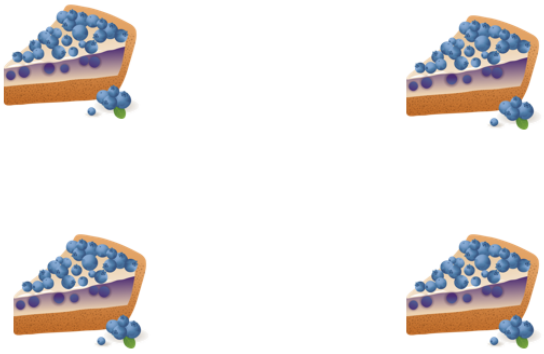
9 What shape can you form by connecting the blueberries ?



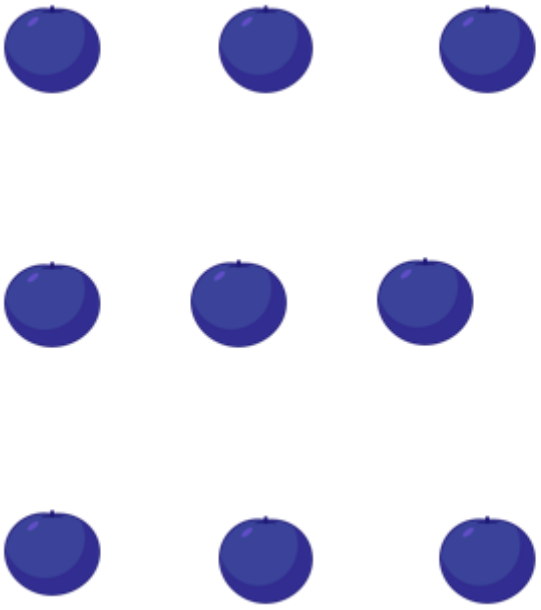
10 What shape can you form by connecting the ice cream cones?



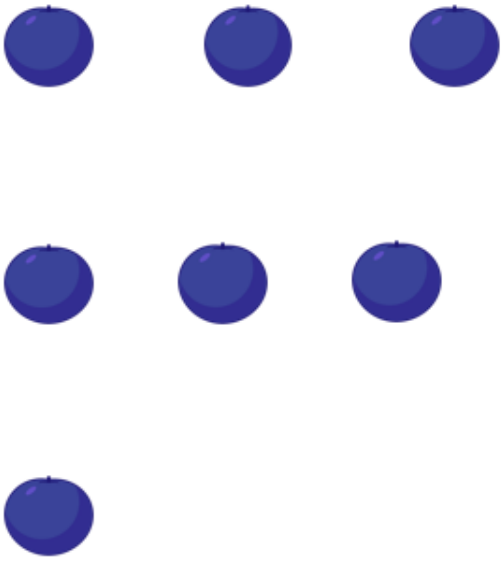
11 What shape can you form by connecting the cakes?



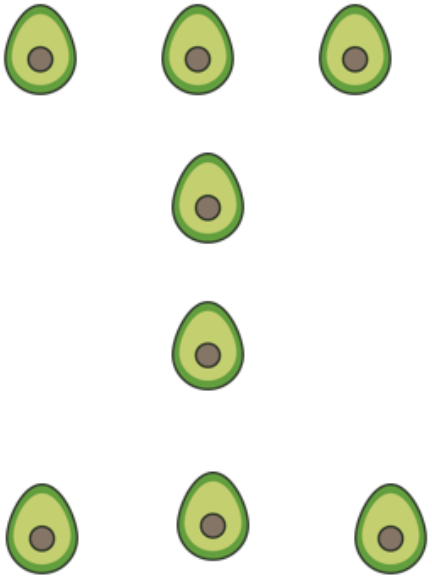
12 Which letter can you form by connecting the blueberries?



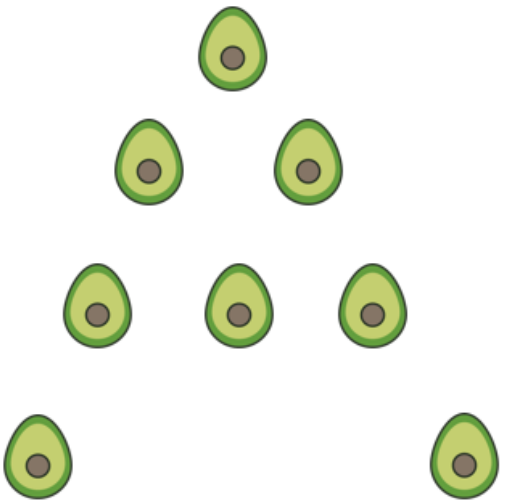
13 Which letter can you form by connecting the blueberries?



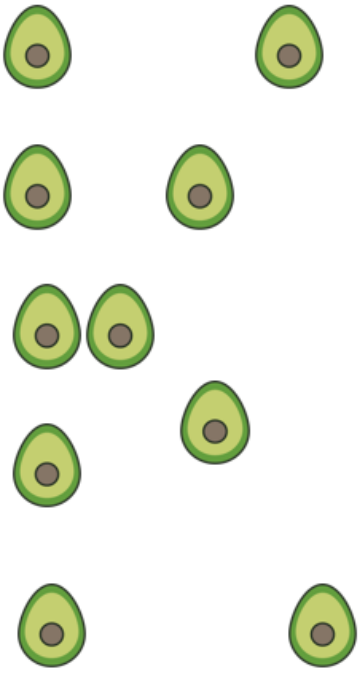
14 Which letter can you form by connecting the kiwi fruits?



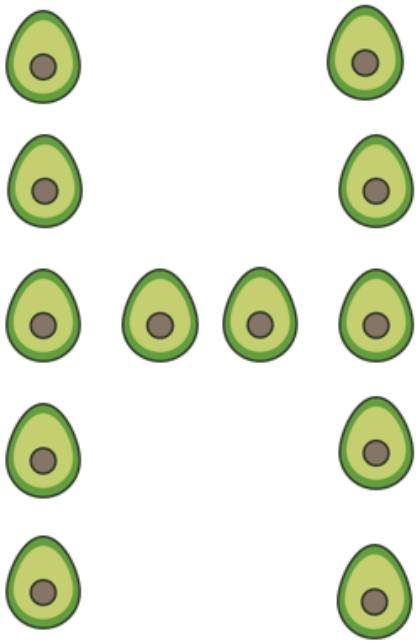
15 Which letter can you form by connecting the kiwi fruits?



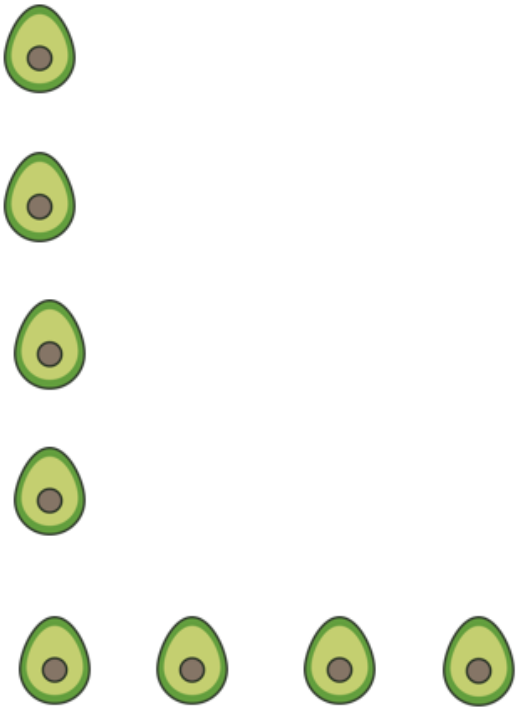
16 Which letter can you form by connecting the kiwi fruits?



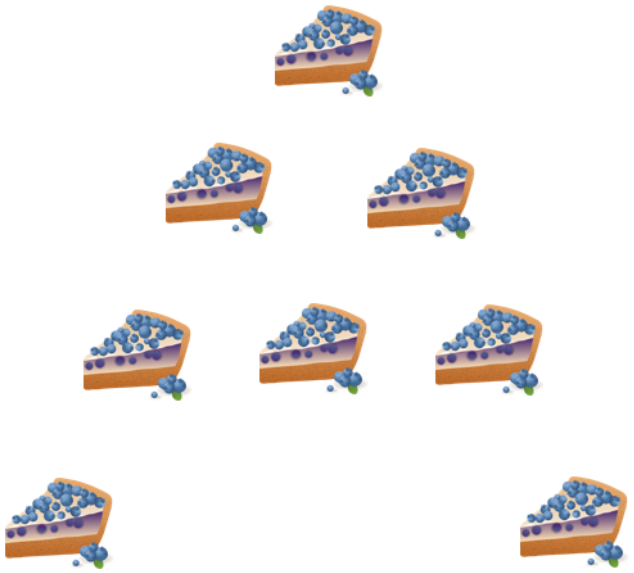
17 Which letter can you form by connecting the kiwi fruits?



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



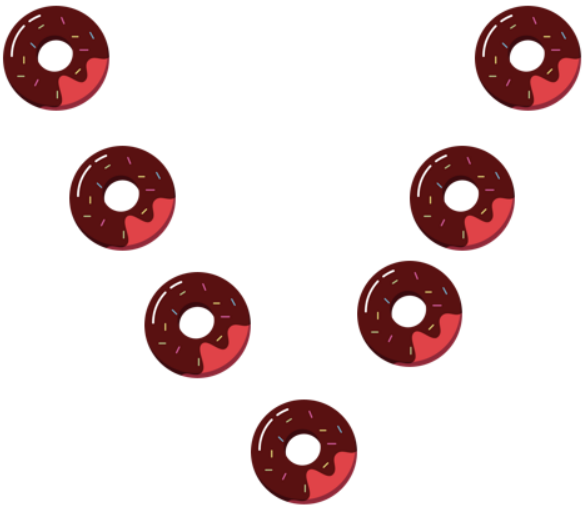
19 Which letter can you form by connecting the cakes?



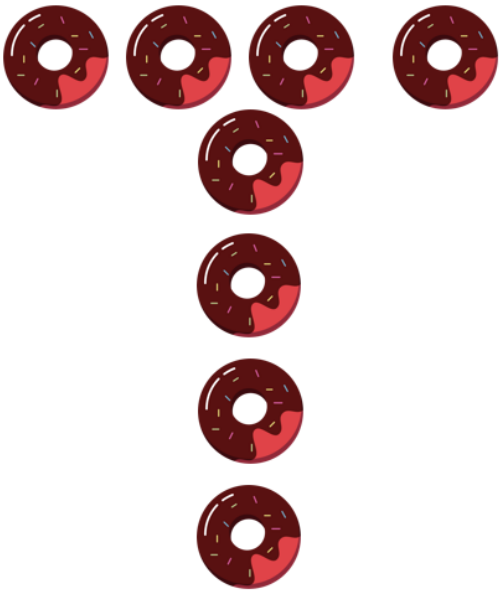
20 Which letter can you form by connecting the flowers?



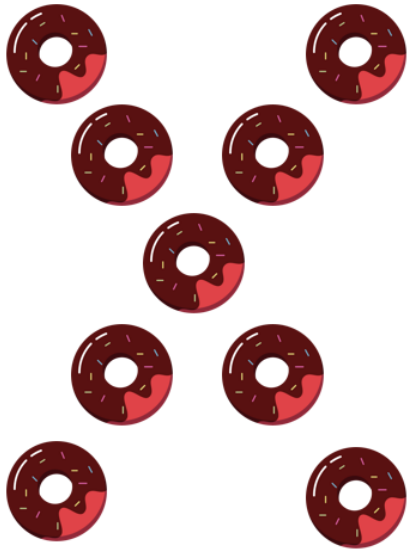
21 Which letter can you form by connecting the donutss?



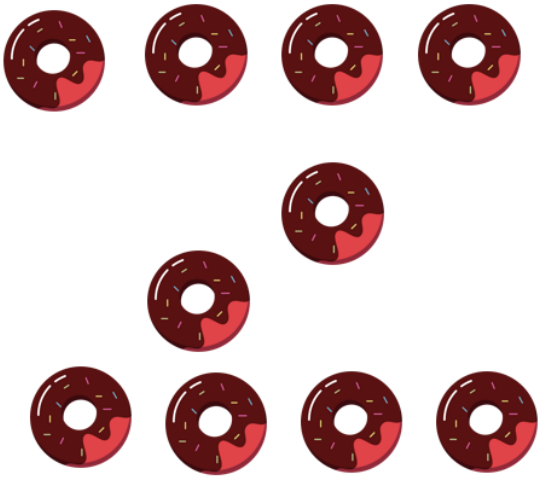
22 Which letter can you form by connecting the donuts?



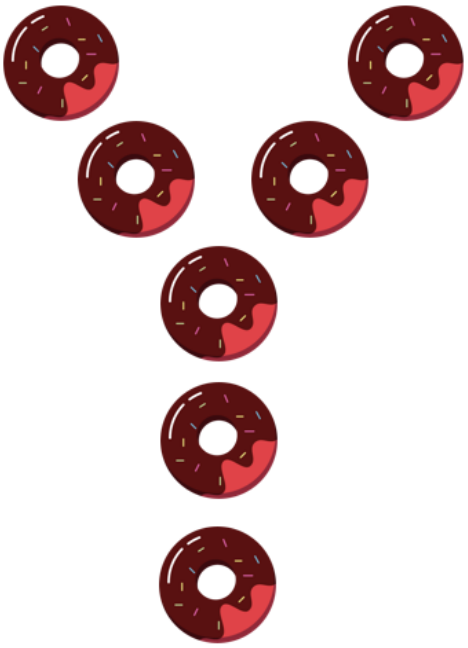
23 Which letter can you form by connecting the donuts?



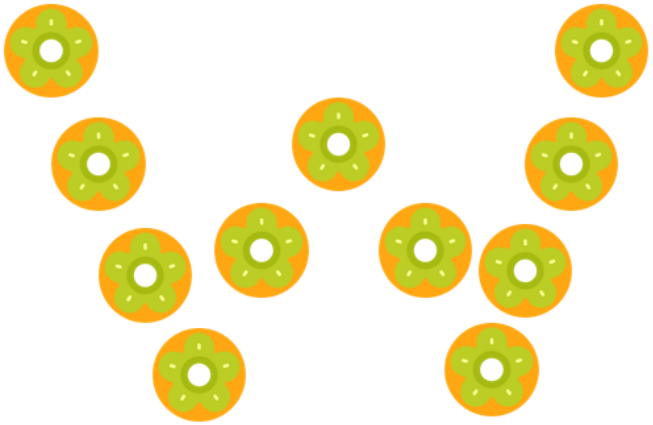
24 Which letter can you form by connecting the donuts?



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 Addition & Subtraction within 10 (2)

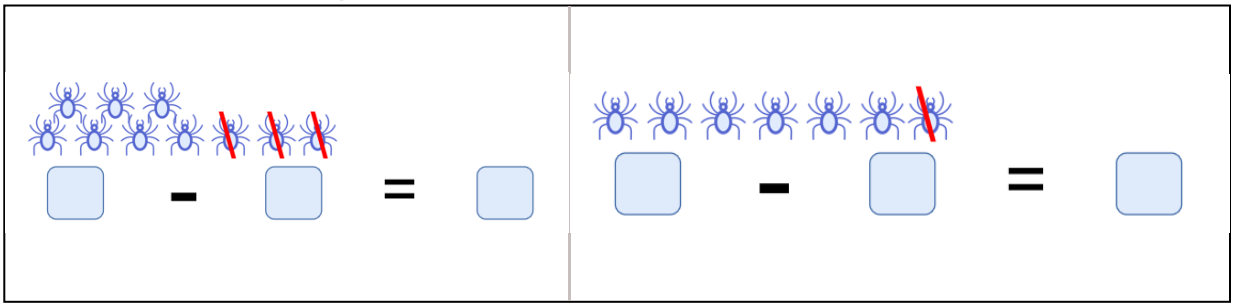
1 $5 + 3 =$ $\quad 8 - 2 =$ $\quad 6 + 3 =$

$1 + 3 =$ $\quad 9 - 3 =$ $\quad 8 - 1 =$

$5 + 4 =$ $\quad 4 + 1 =$ $\quad 9 - 8 =$

$7 - 4 =$ $\quad 1 + 2 =$ $\quad 7 + 1 =$

2 Write addition with spiders



3 $5 + 3 =$ $5 - 2 =$ $1 + 6 =$

$8 - 4 =$ $3 - 1 =$ $4 + 2 =$

$6 - 4 =$ $4 - 3 =$ $8 - 3 =$

$7 + 3 =$ $1 + 9 =$ $10 - 6 =$

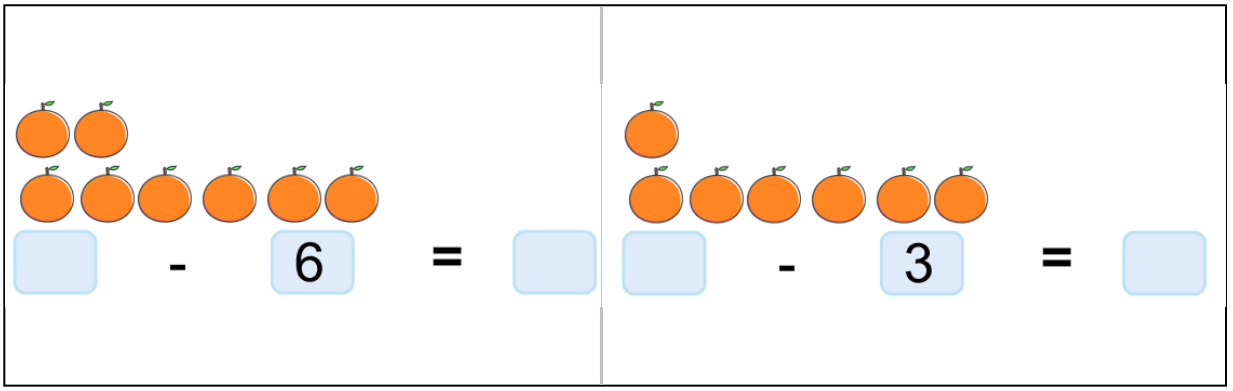
4 $5 - 3 =$ $7 - 5 =$ $7 - 4 =$

$3 + 2 =$ $3 - 2 =$ $5 - 2 =$

$6 - 3 =$ $4 - 1 =$ $4 - 3 =$

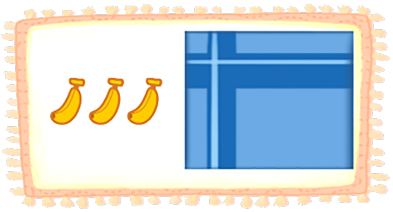
$10 - 5 =$ $1 - 1 =$ $8 + 1 =$

5 Cross off some fruits and do subtraction.



6 How many bananas are covered by the cloth?





A. 5 B. 6 C. 8

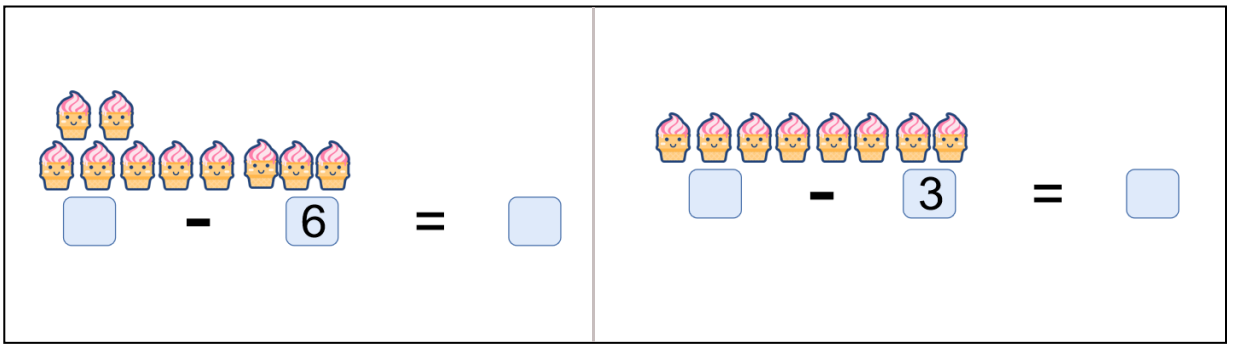
7 $6 + 1 =$ $5 + 2 =$ $2 + 7 =$

$2 - 1 =$ $9 - 3 =$ $3 - 2 =$

$7 - 4 =$ $5 - 1 =$ $4 - 1 =$

$6 - 3 =$ $1 + 6 =$ $8 - 5 =$

8 Cross off some ice-cream and do subtraction.



9 $3 + 3 =$ $7 - 2 =$ $1 + 1 =$

$4 + 4 =$ $7 - 5 =$ $8 - 2 =$

$9 - 1 =$ $6 - 5 =$ $4 + 3 =$

$9 - 3 =$ $6 - 1 =$ $8 + 1 =$

10 $1 + 1 =$ $7 + 2 =$ $8 - 5 =$

$2 + 3 =$ $3 + 1 =$ $2 + 1 =$

$5 + 4 =$ $9 - 8 =$ $4 + 3 =$

$6 - 2 =$ $10 - 6 =$ $7 + 3 =$

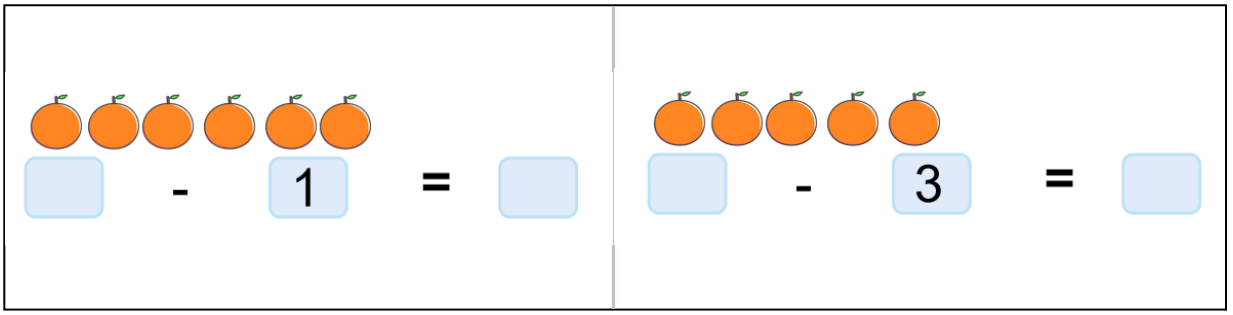
11 $9 + 1 =$ $5 + 2 =$ $2 + 3 =$

$2 + 5 =$ $6 - 2 =$ $5 + 2 =$

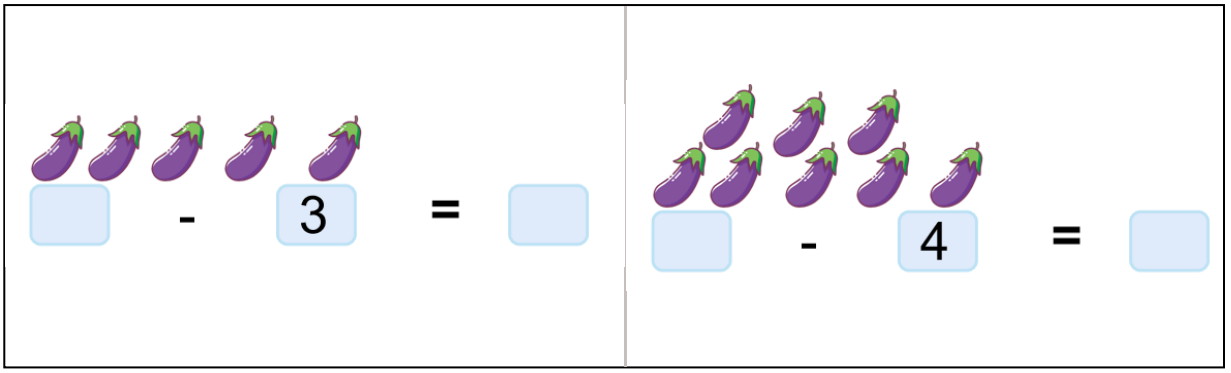
$10 - 4 =$ $6 - 1 =$ $9 - 3 =$

$7 - 5 =$ $1 + 7 =$ $5 - 1 =$

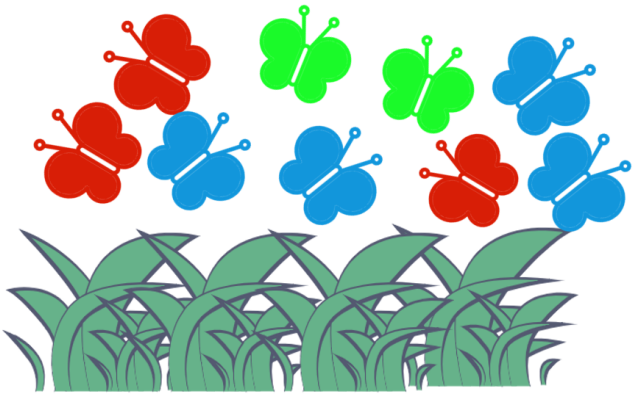
12 Cross off some fruits and do subtraction.



13 Cross off some fruits and do subtraction.



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

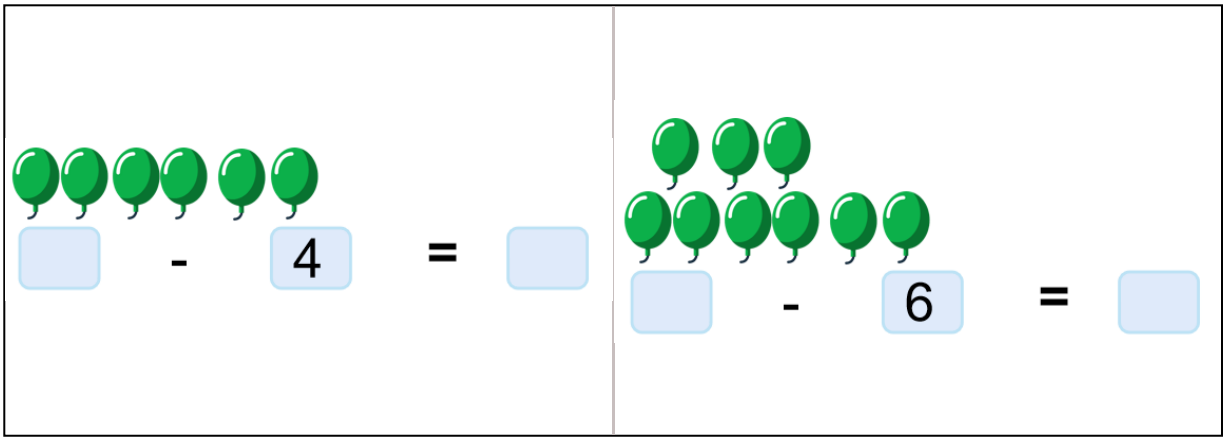


blue butterflies _____

red butterflies _____

green butterflies _____

15 Cross off some balloons and do subtraction.



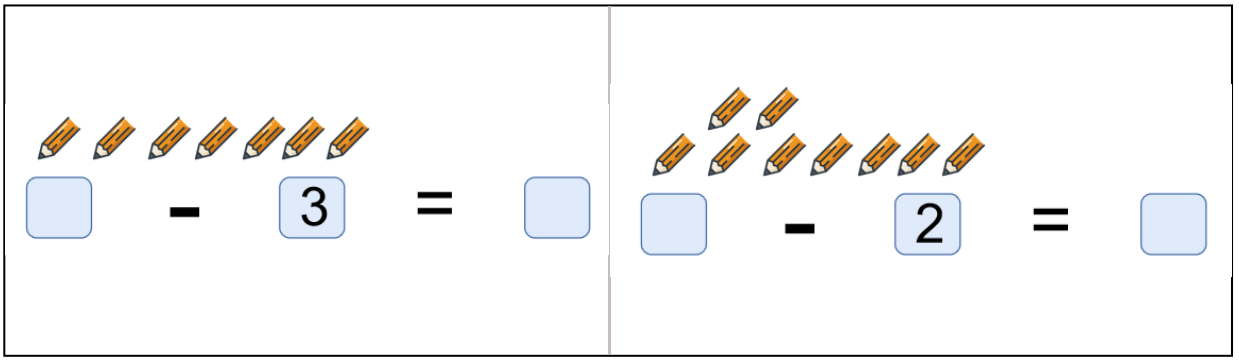
16 $7 + 2 =$ $6 - 4 =$ $4 + 2 =$

$2 + 2 =$ $9 - 4 =$ $9 - 2 =$

$6 + 3 =$ $3 + 3 =$ $5 - 3 =$

$8 - 3 =$ $2 + 6 =$ $1 + 1 =$

17 Cross off some pencils and do subtraction.



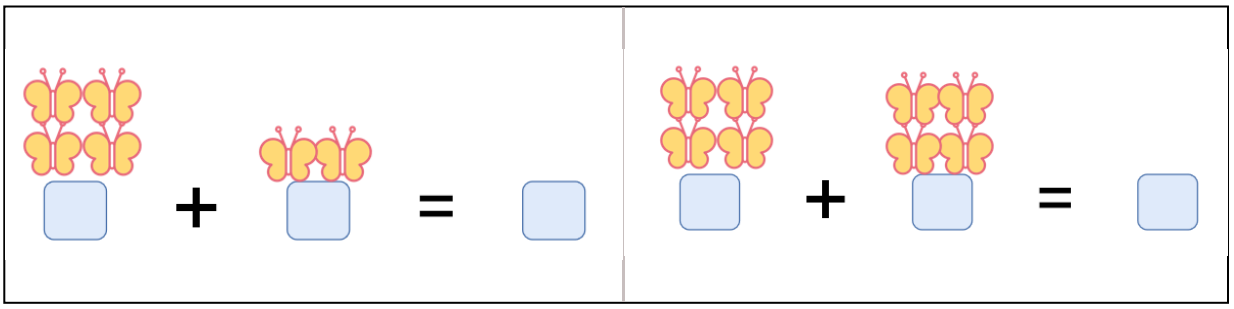
18 $5 + 1 =$ $1 + 5 =$ $5 - 3 =$

$3 + 4 =$ $3 - 1 =$ $5 + 2 =$

$6 - 1 =$ $6 + 2 =$ $4 + 3 =$

$4 - 3 =$ $1 + 7 =$ $9 - 7 =$

19 Write addition with butterflies



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 $8 - 4 =$ $9 - 2 =$ $7 - 4 =$

$3 + 2 =$ $6 + 3 =$ $4 + 2 =$

$5 + 3 =$ $5 - 4 =$ $4 + 4 =$

$8 - 5 =$ $2 + 1 =$ $10 - 8 =$

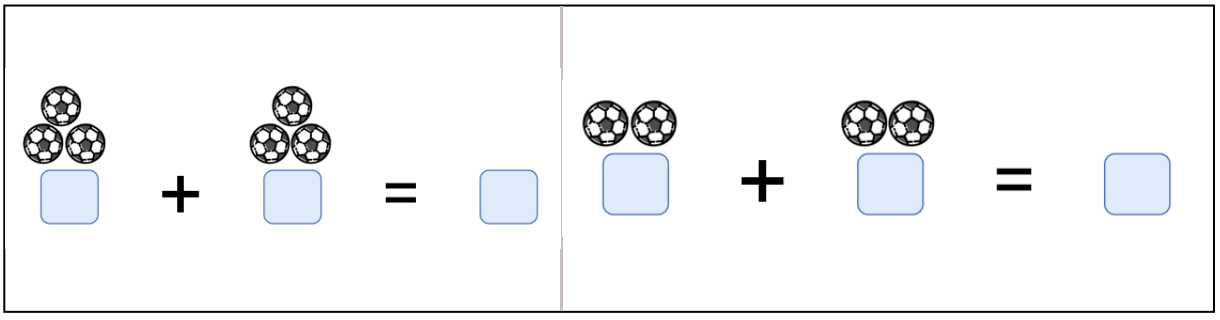
22 $6 - 1 =$ $5 - 2 =$ $3 - 1 =$

$3 - 3 =$ $7 - 3 =$ $4 - 4 =$

$6 - 5 =$ $9 - 4 =$ $1 - 1 =$

$10 - 4 =$ $5 - 1 =$ $7 - 6 =$

23 Write addition with soccers



24 Cross off some butterflies and do subtraction.

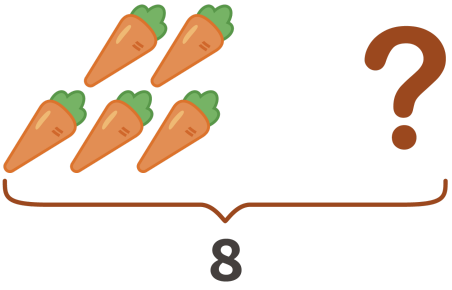


□ - 1 = □



□ - 3 = □

25



? = _____.

NOTE



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:

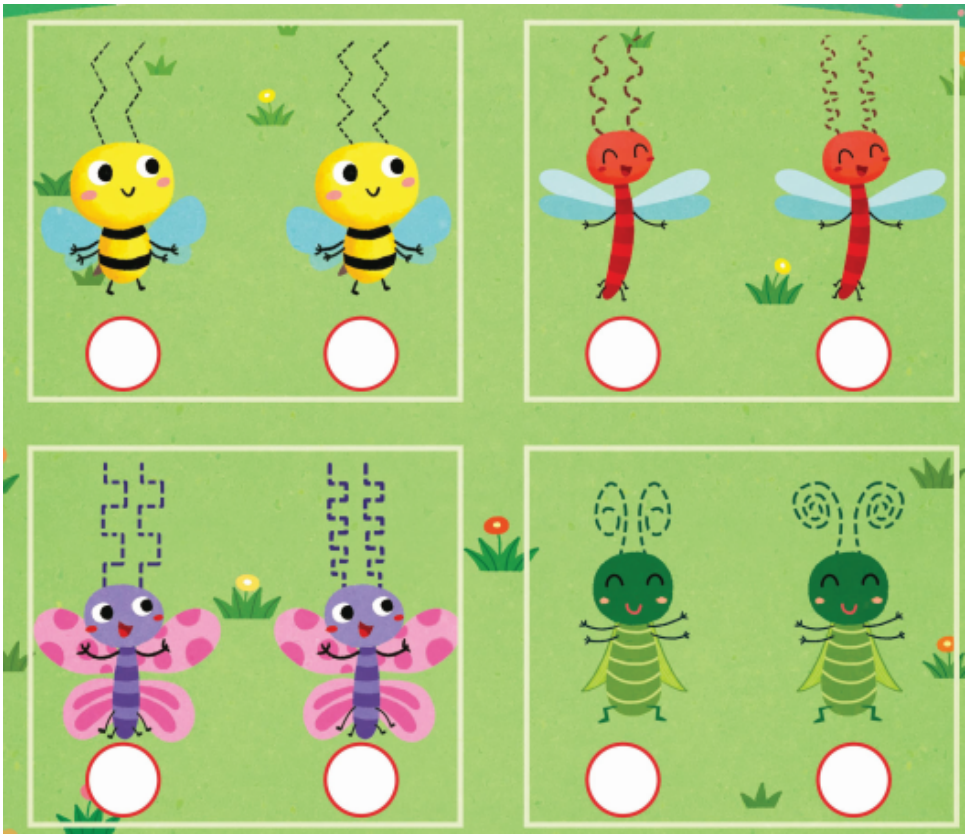
$4+5=$ $2+10=$

$7+8=$ $0+12=$

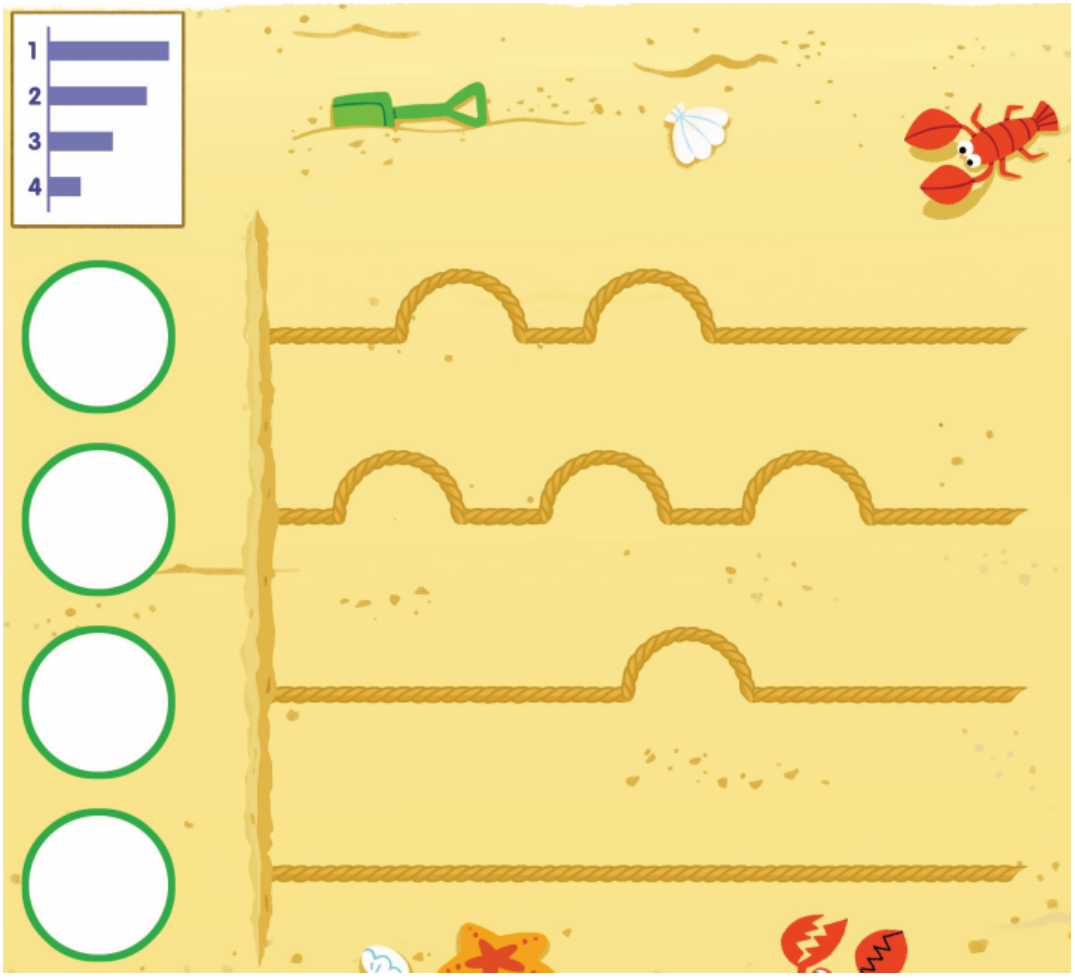
$10+4=$ $4+8=$

Chapter 8 Compare Length

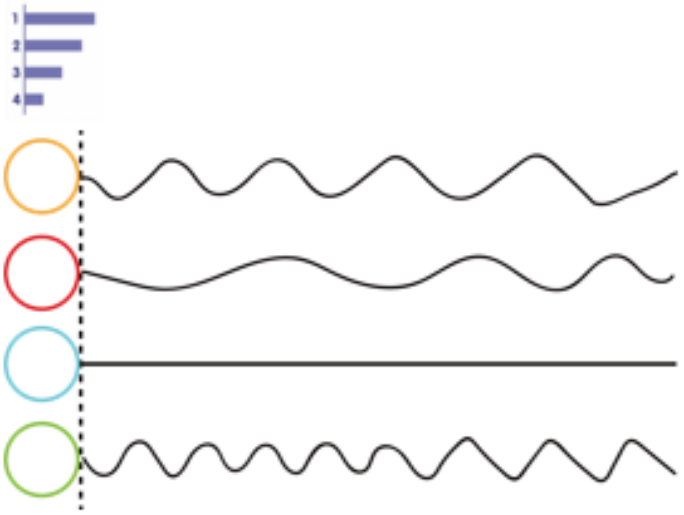
1 Find the insect in each group with longer antennae, and color "◯" in red.



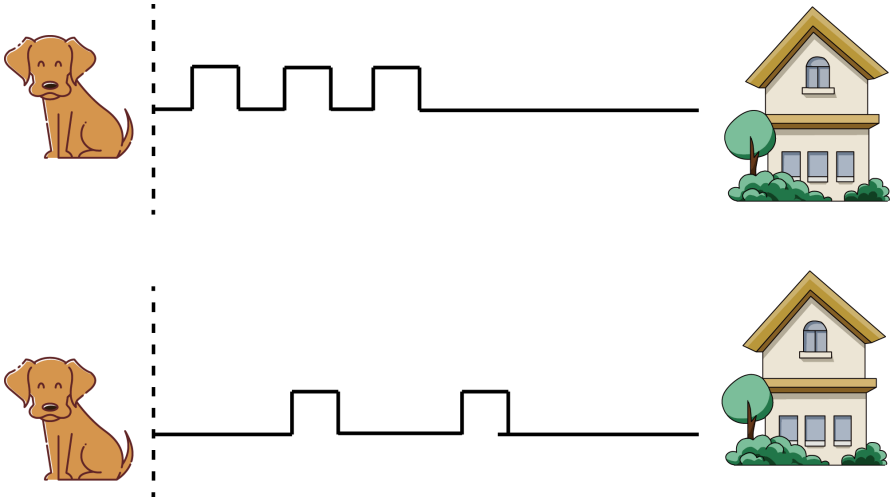
2 Fill 1 to 4 in the circles based on the length of each rope.



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



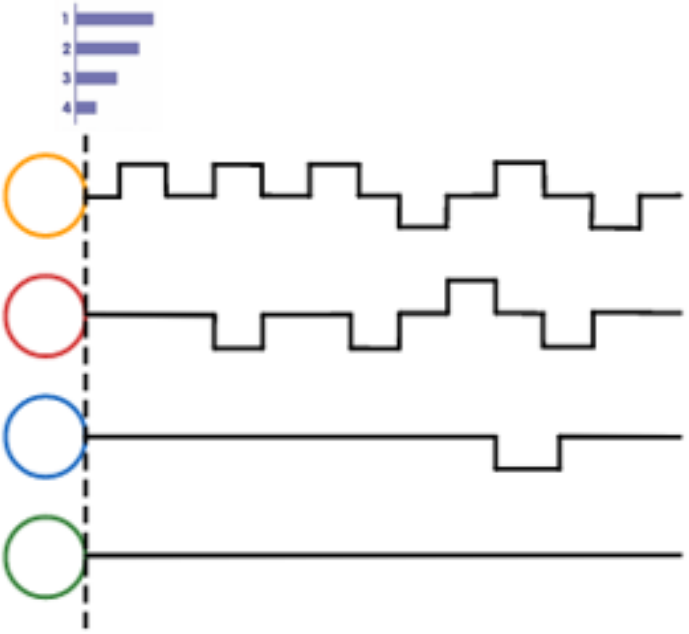
4 Which line is longer? Circle it!



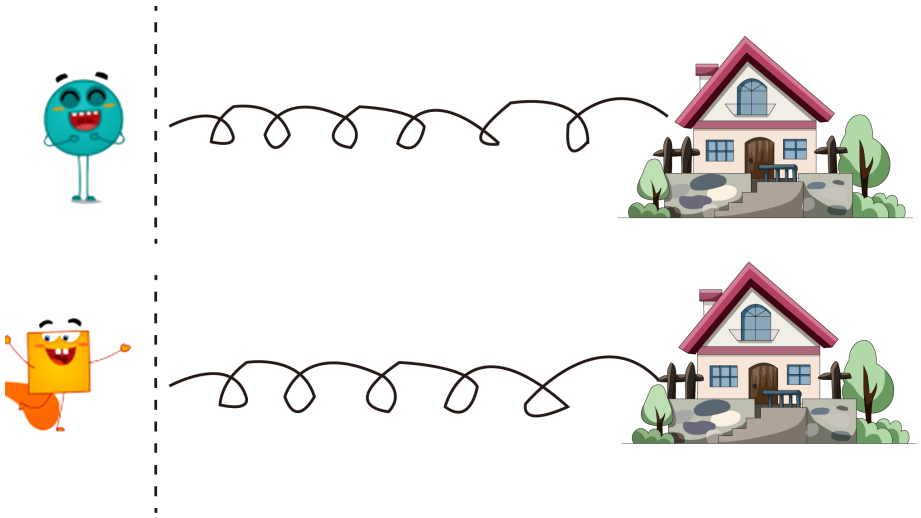
5 Which line is the longest?

A. B. C.  D.  E.

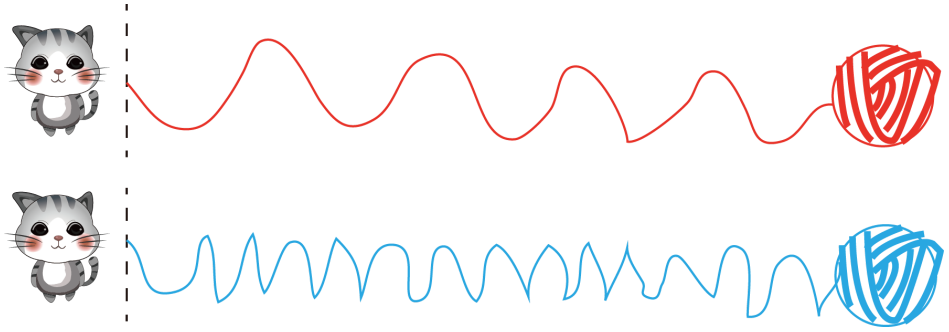
6 Fill 1 to 4 in the circles based on the length of each rope



7 Which line is longer? Circle it!



8 Which line is longer? Circle it!



9 Which line is the shortest?

A. 

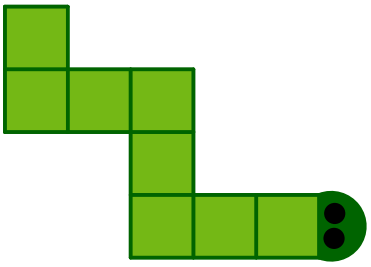
B. 

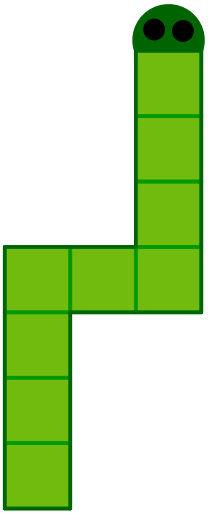
C. 

D.

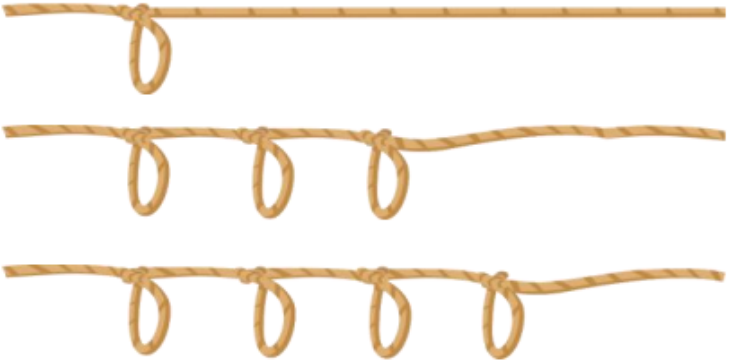
E. 

10 Which caterpillar is longer? Circle it!

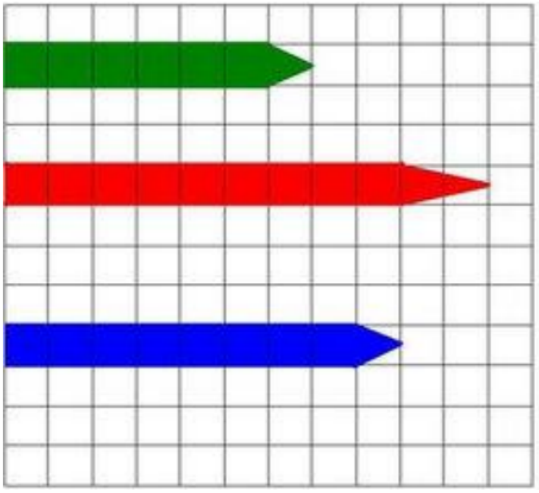




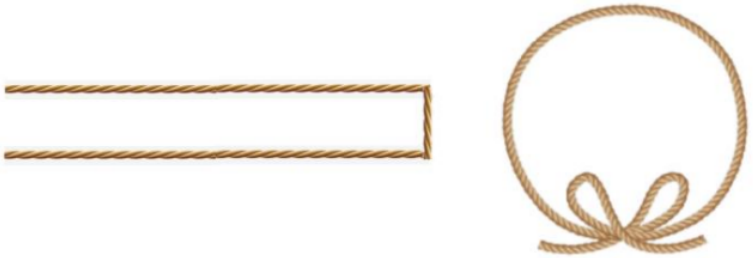
11 Which rope is the longest?



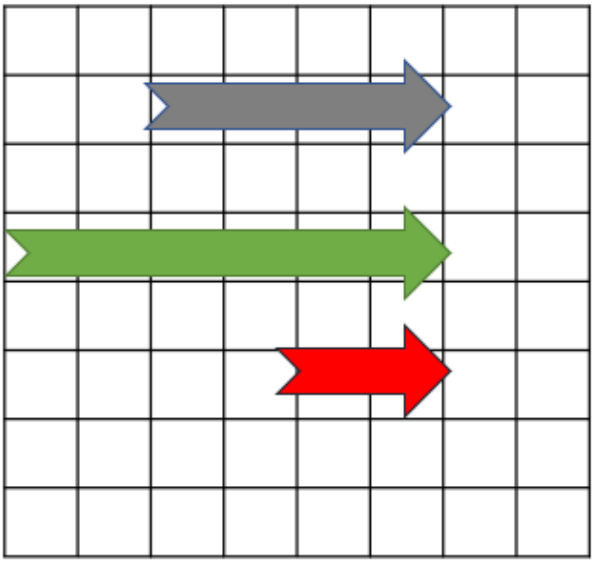
12 Which pencil is the longest?



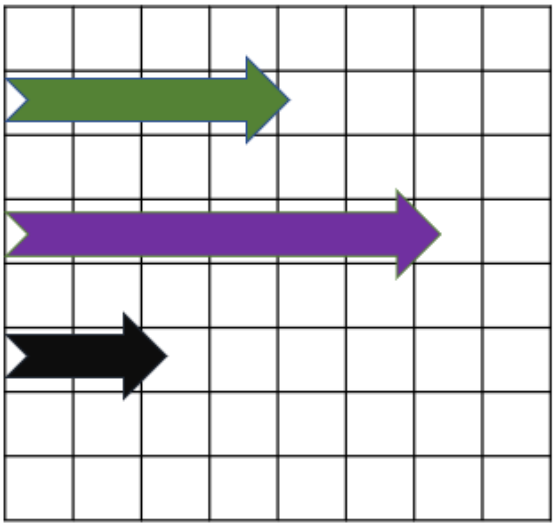
13 Two ropes of the same length are fold differently as below. Now, which rope is longer?



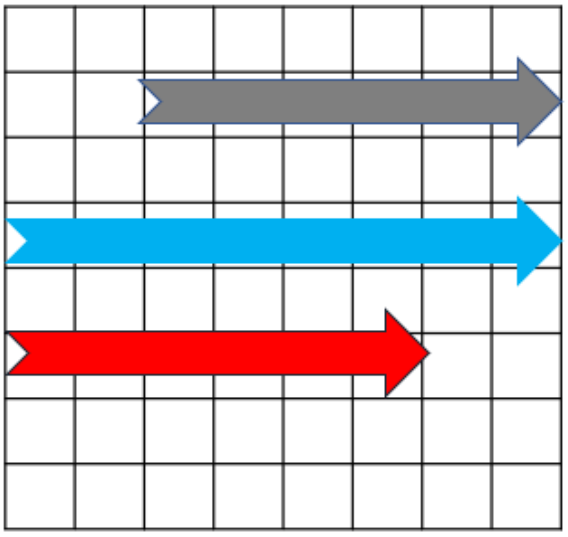
14 Which arrow is the shortest?



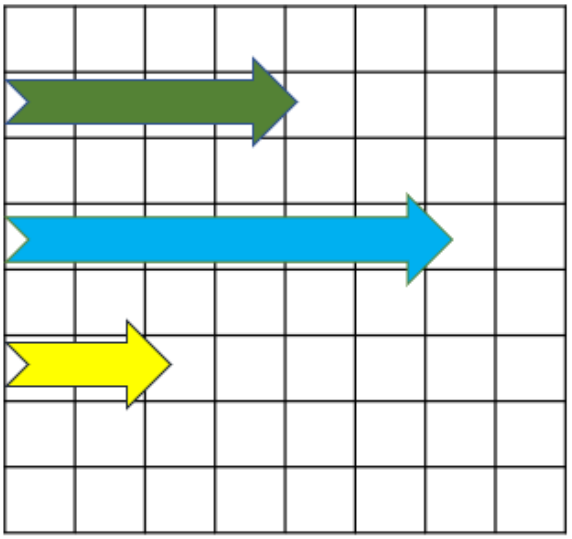
15 Which arrow is the shortest?



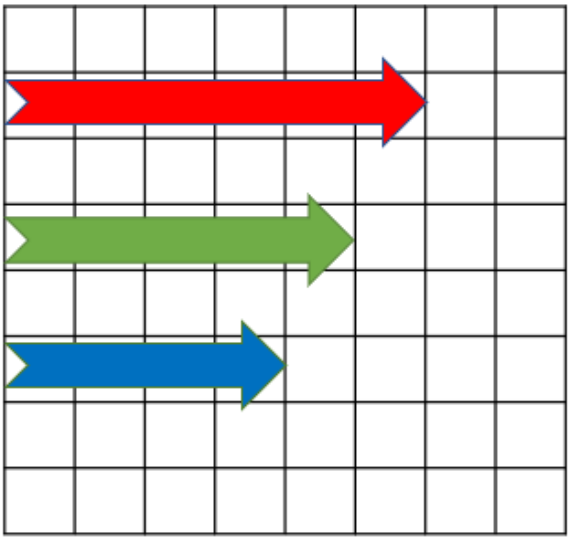
16 Which arrow is the longest?



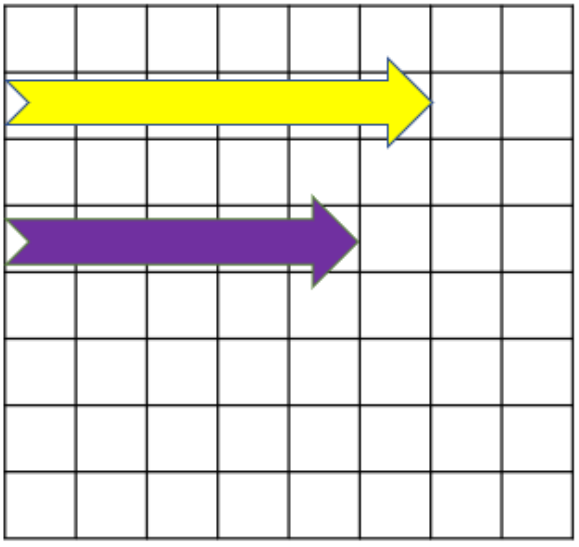
17 Which arrow is the longest?



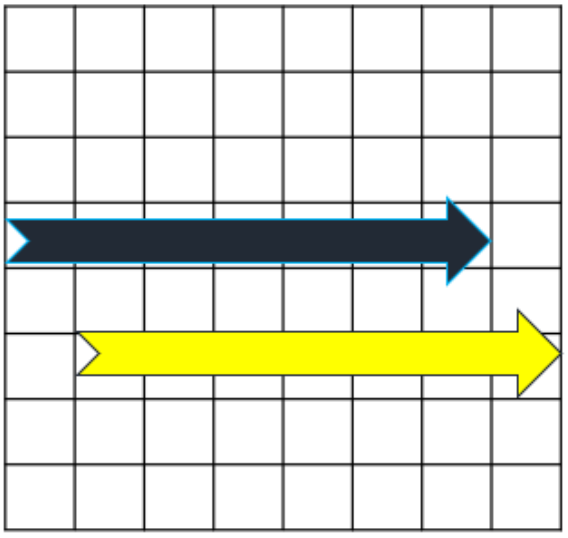
18 Which arrow is the longest?



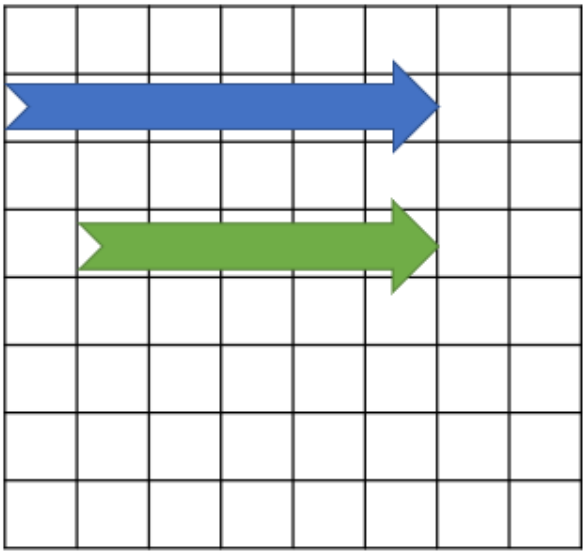
19 Which arrow is shorter?



20 Which arrow is longer?



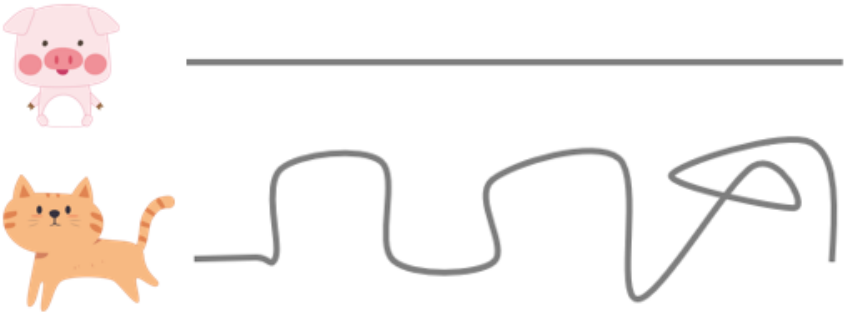
21 Which arrows is longer?



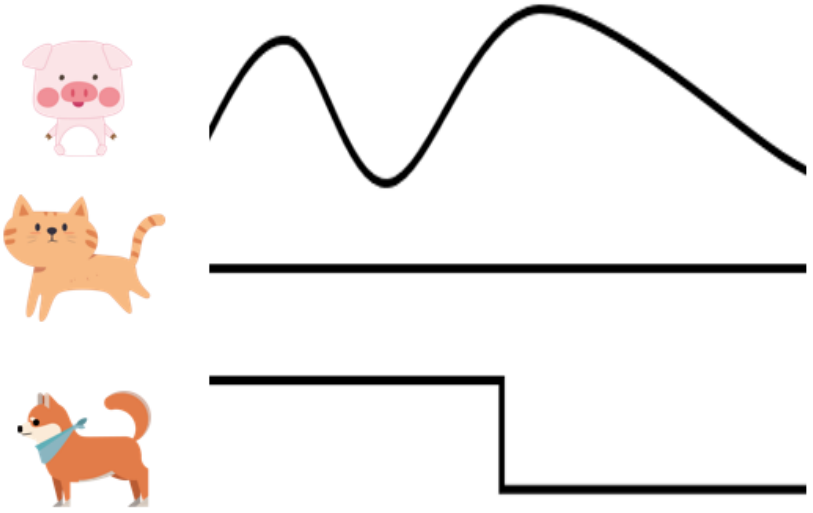
22 Which line is longer? Circle it!



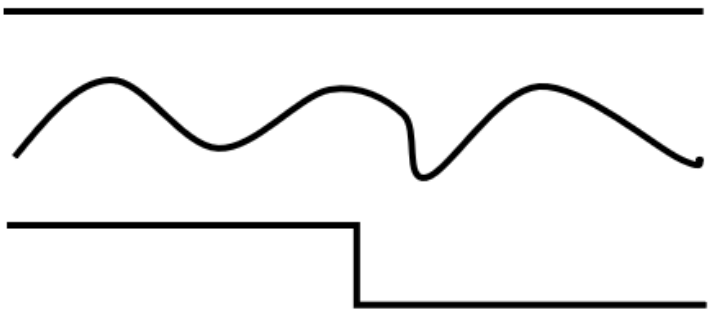
23 Which line is shorter? Circle it!



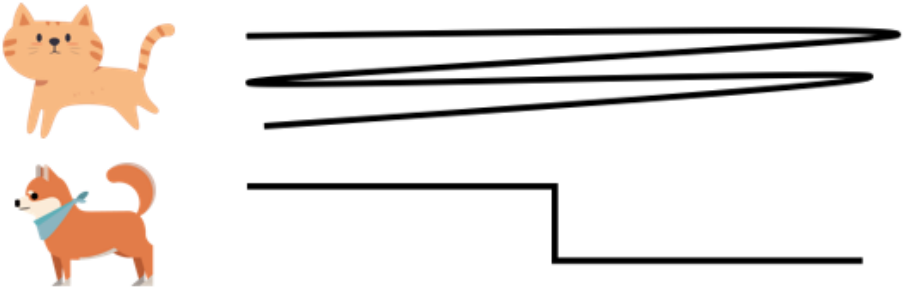
24 Which line is the longest? Circle it!



25 Which line is the shortest? Circle it!



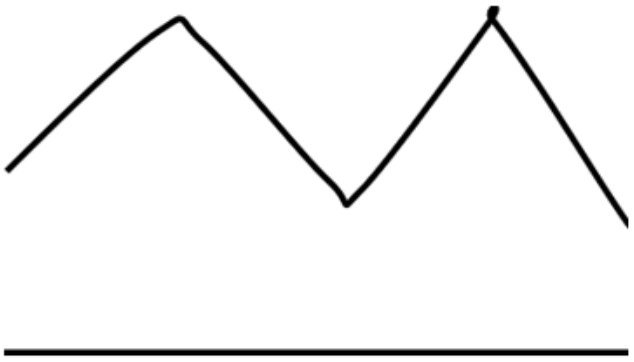
26 Which line is longer? Circle it!



27 Which line is shorter? Circle it!



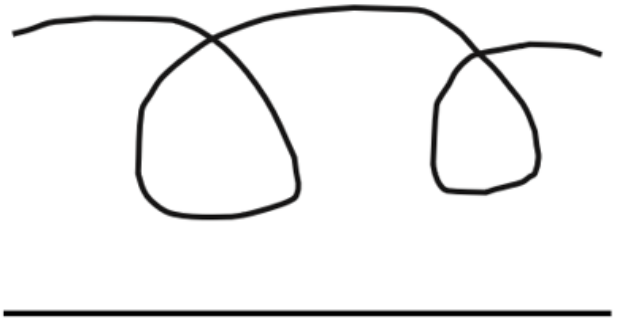




28 Which line is longer? Circle it!







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 ballon?



5 Find the partten. 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?



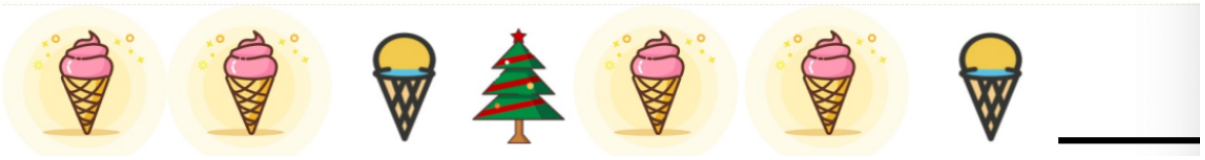
21 Find the pattern. Fill in the blank.



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 11 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



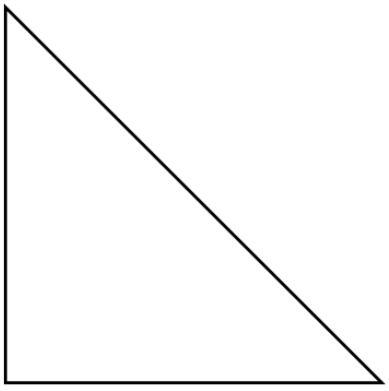
4 Divide the shape below into 4 equal triangles.



5 Divide the shape below into 4 equal triangles.



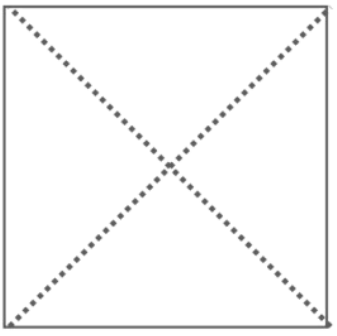
6 Divide the shape below into 4 equal triangles.



7 Divide the shape below into 6 equal triangles.



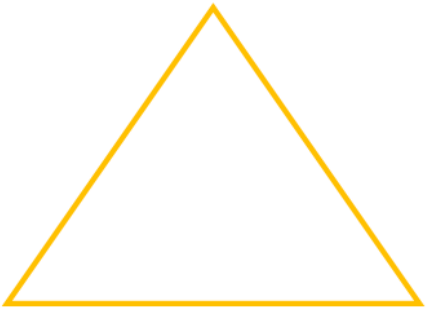
8 How many triangles is the square divided into?



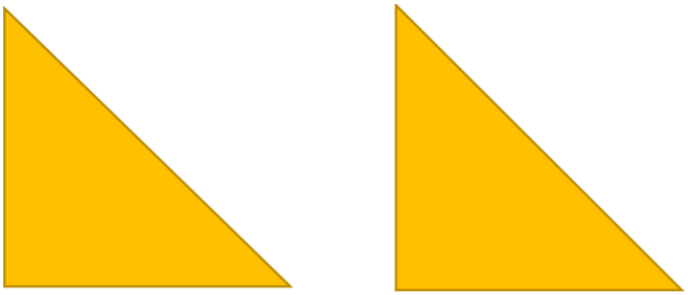
9 Divide the shape below into a triangle and a quadrilateral (a shape with 4 sides).



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 a 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).



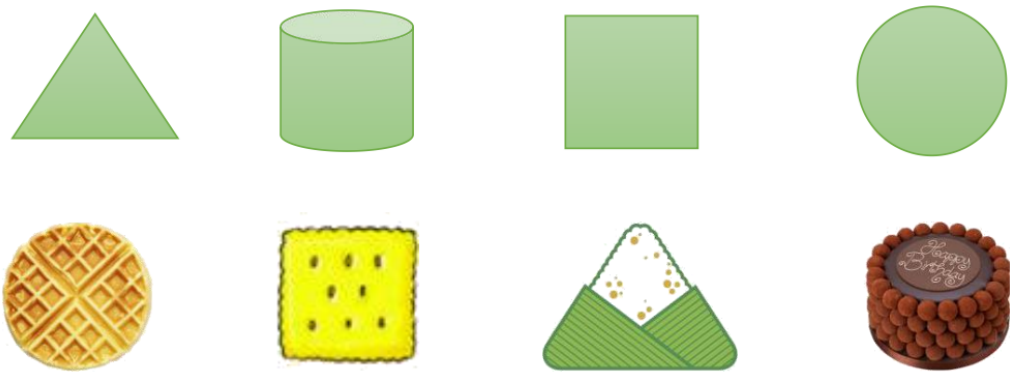
19 Add side(s) to make quadirlaterals (a shape with 4 sides).



20 Add 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.



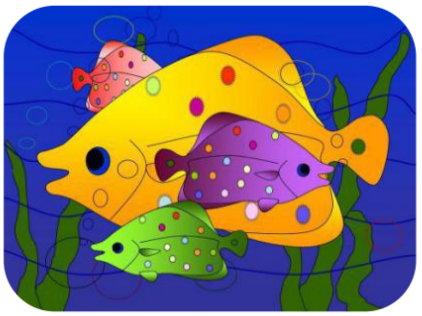
9 Which animal is in the most front place? Why?



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?

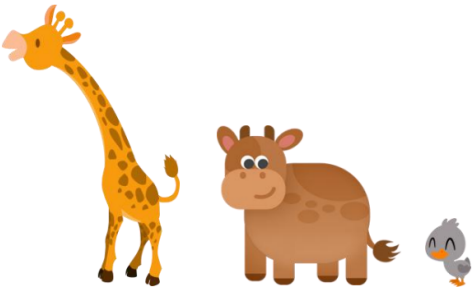


12 Counting from the left, the cucumber is the _____ one.



A. first B. second C. third

13 Counting from the right, the tallest animal is the _____ one.



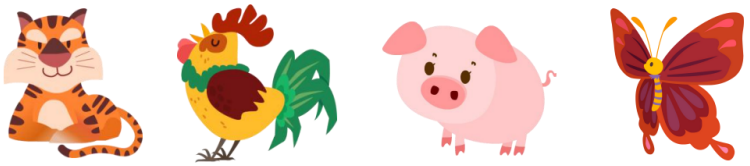
A. first B. second C. third

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. 1st B. 2nd C. 3rd D. 4th

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



A. 1st B. 2nd C. 3rd D. 4th E. 5th

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



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



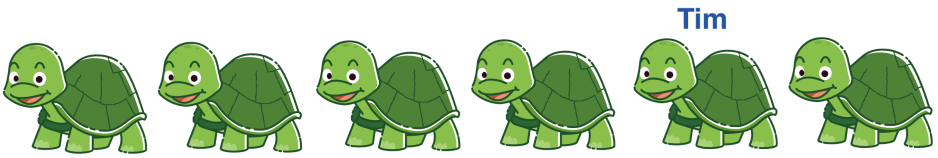
19 Counting from the left, which is the fifth sock?



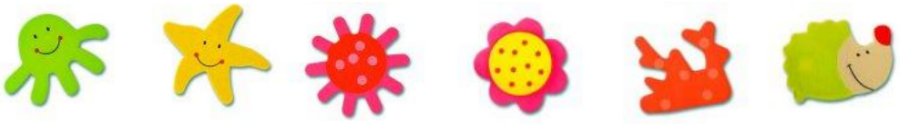
20 There are Joann's stickers. Counting from the right, she likes the fifth one best. Which one is her favorite sticker?



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!



NOTE

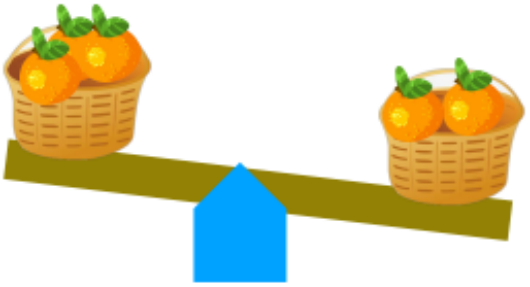


NOTE

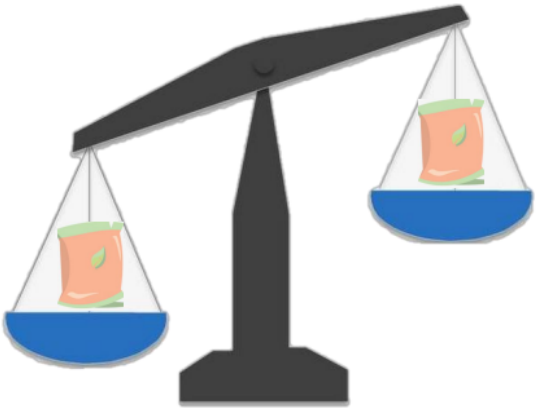


Chapter 13 Balance

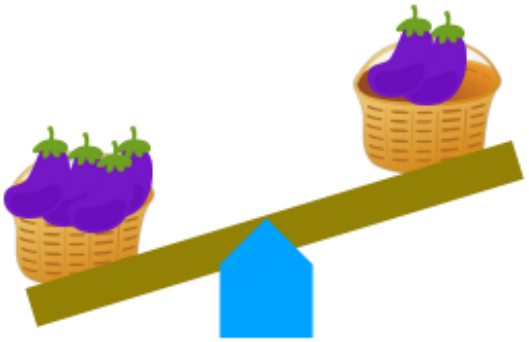
1 Which side is heavier? Circle it.



2 Which side is heavier? Circle it.



3 Which side is lighter? Circle it.

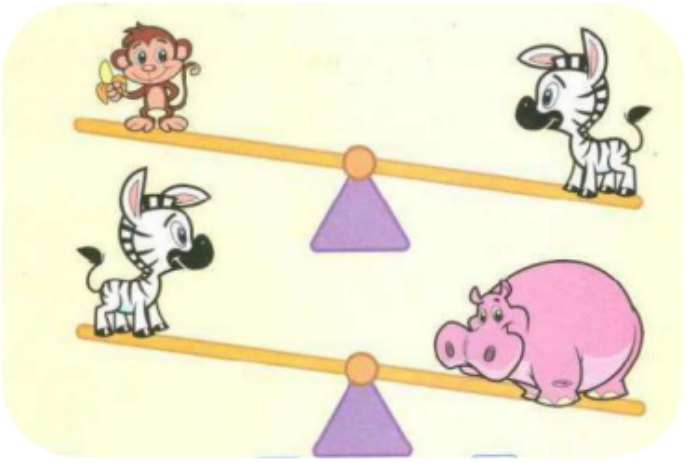


4 In the figure below, which is the heaviest? Which is the lightest? Order from heaviest to lightest.

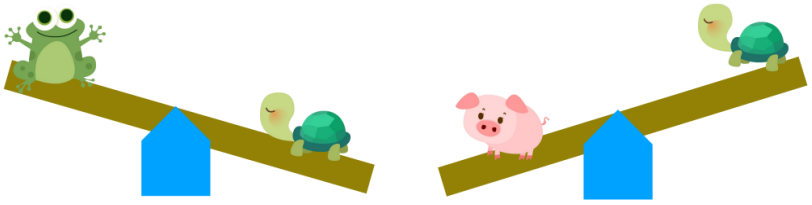


___ > ___ > ___

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



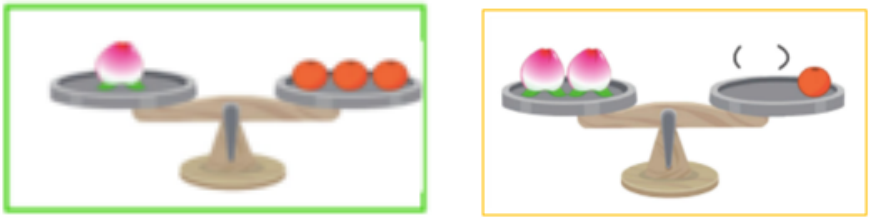
6 In the figure below, which is the heaviest? Circle it!



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

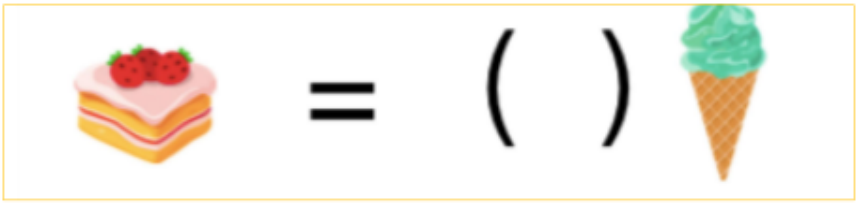


8 How many oranges weigh the same as 2 peaches?

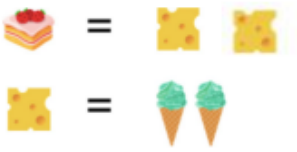


9 Fill in the blank.





10 Fill in the blank.





Chapter 14 Addition & Subtraction within 20

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?



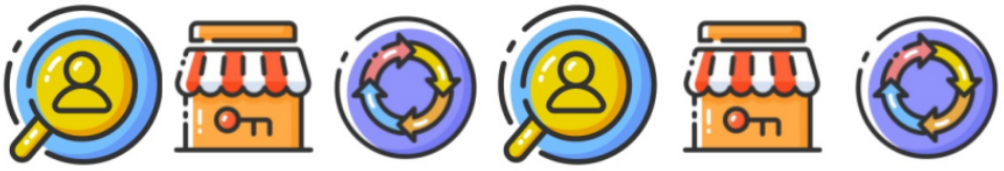
6 Complete the pattern below.



7 Find the pattern. What is the next figure?



8 Find the pattern. What is the next figure?



9 Complete the pattern below.



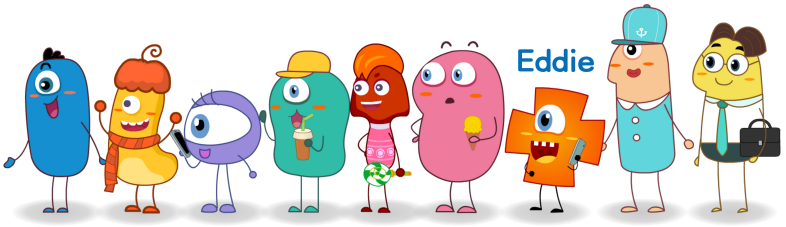
_____

10 Find the pattern. What is the next figure?



_____

11 Eddie is the _____ th 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 6th 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?



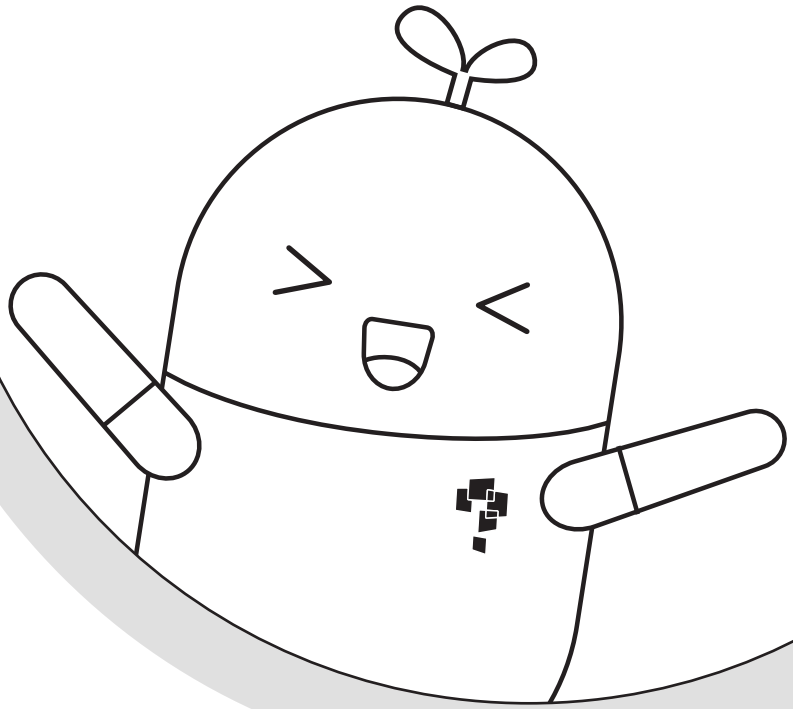
NOTE



NOTE



Answers



Think Academy

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

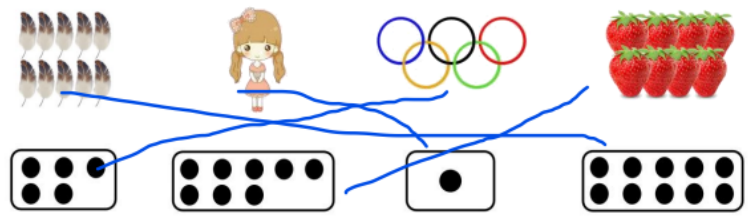
5 7

6 8

7 7

8 4

4

9 

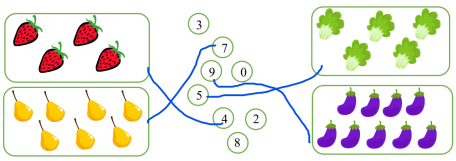
10 10

11 2

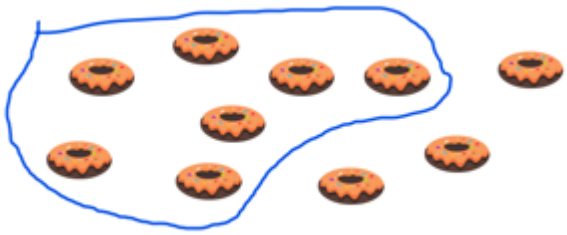
12 5;

3

13 3

14 

15



16 4



17 7

18 5;

4;

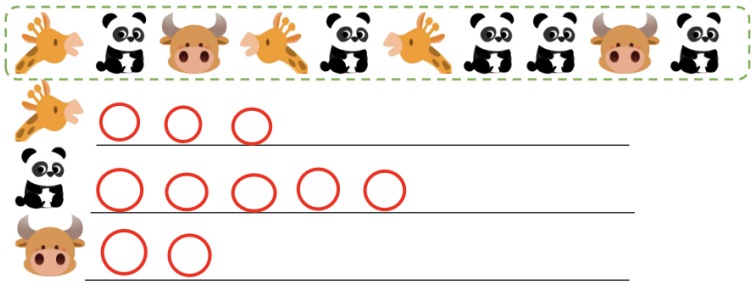
6

19 Oranges;



20 3

21



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

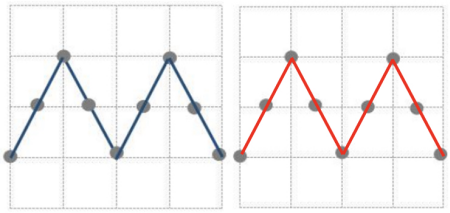
$3+3=6$	$2+3=5$	$2+2=4$
$5+1=6$	$2+1=3$	$2+5=7$
$2+5=7$	$5+4=9$	$3+5=8$
$3+6=9$	$1+3=4$	$4+4=8$

21

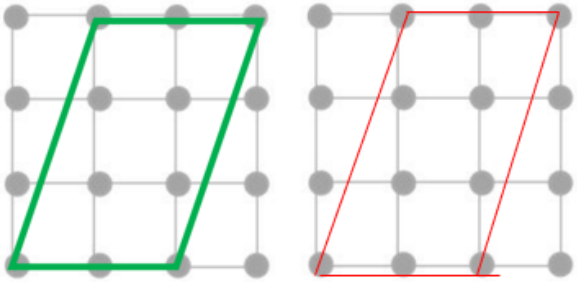
$10-1=9$	$5-2=3$	$1-1=0$
$6-2=4$	$9-3=6$	$9-3=6$
$10-5=5$	$8-4=4$	$3-2=1$
$7-4=3$	$2-1=1$	$9-6=3$

Chapter 5 Draw Shapes

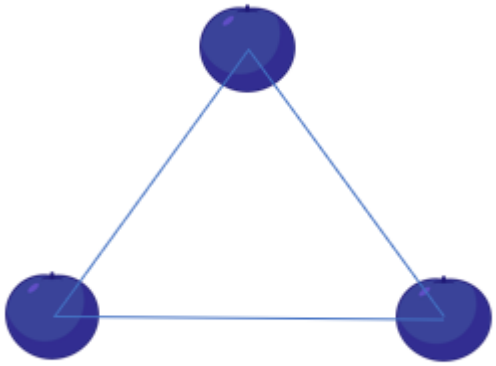
1



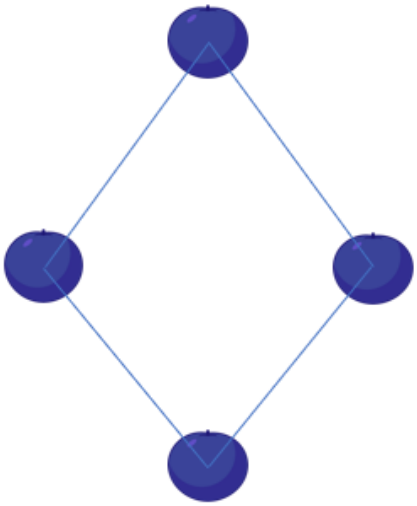
2



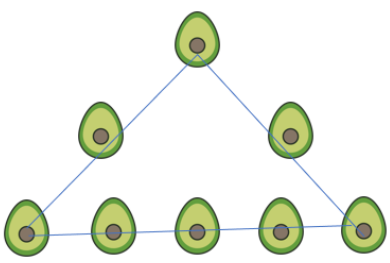
3



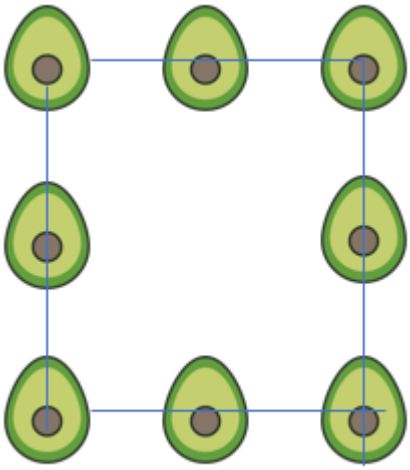
4



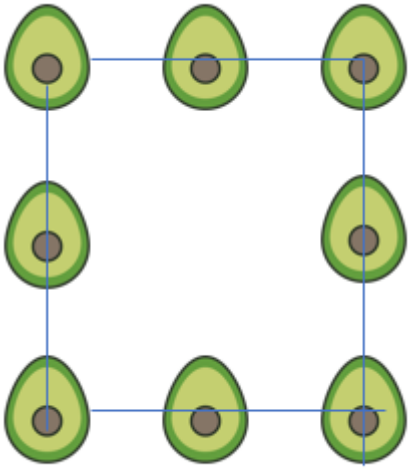
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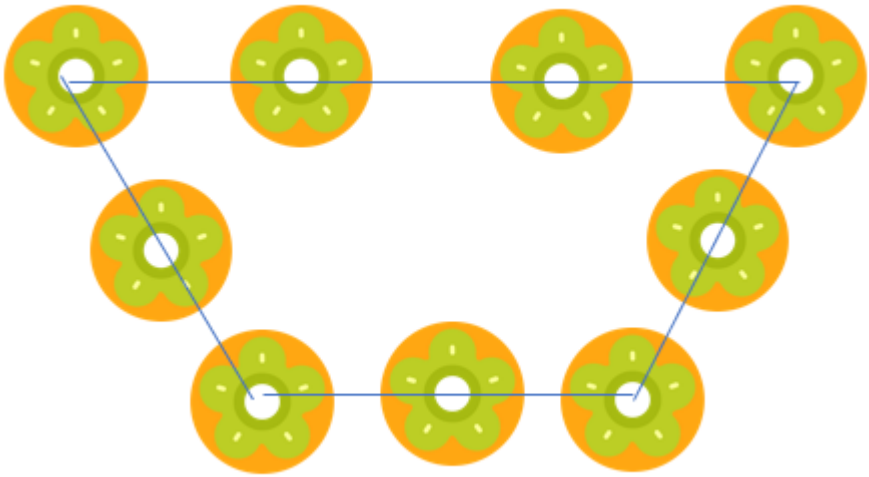
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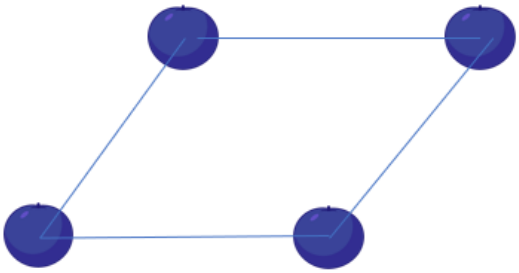
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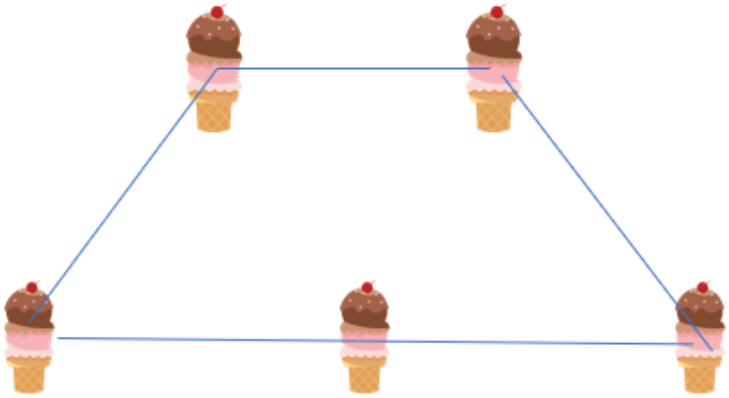
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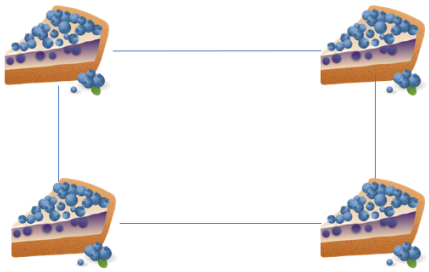
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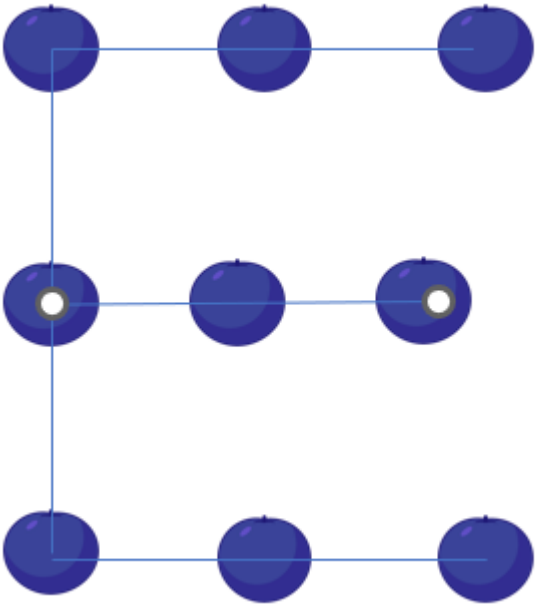
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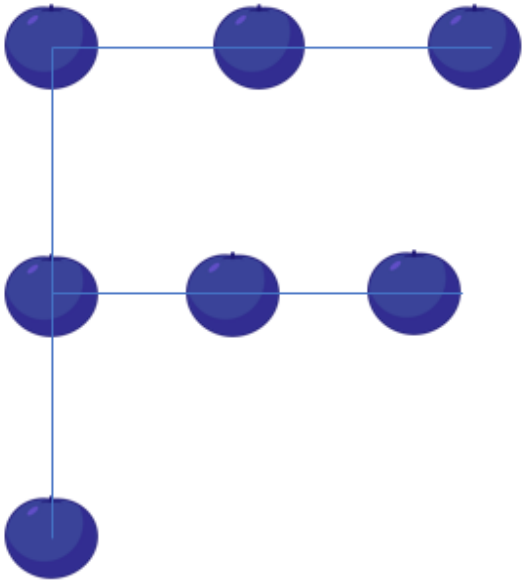
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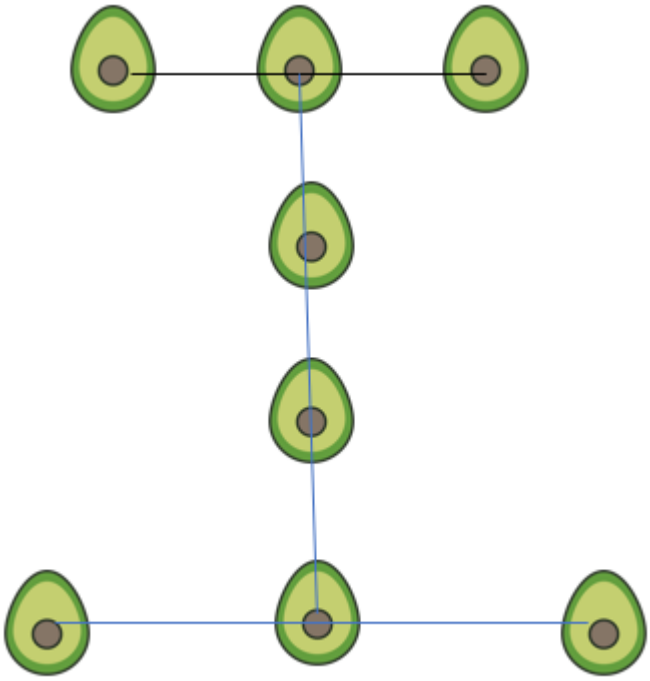
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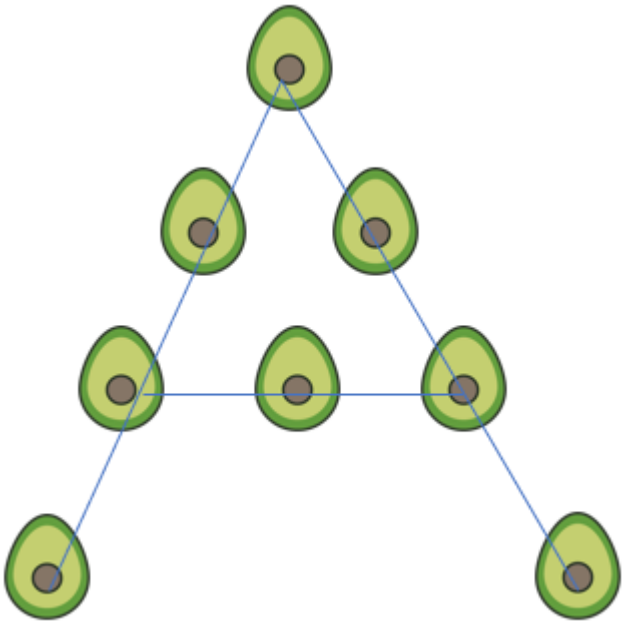
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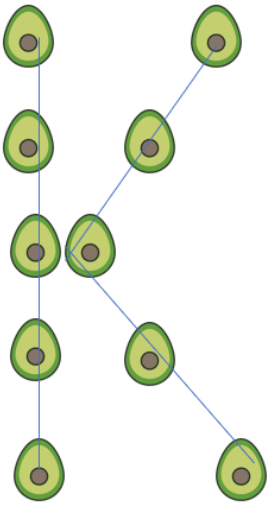
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15 A

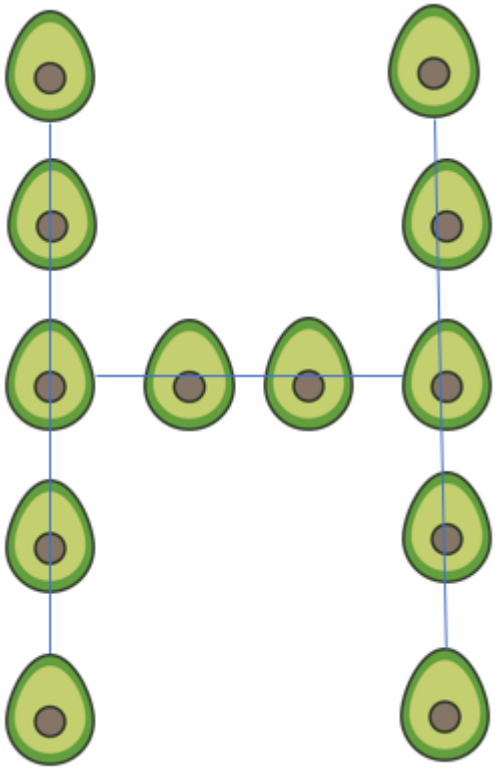


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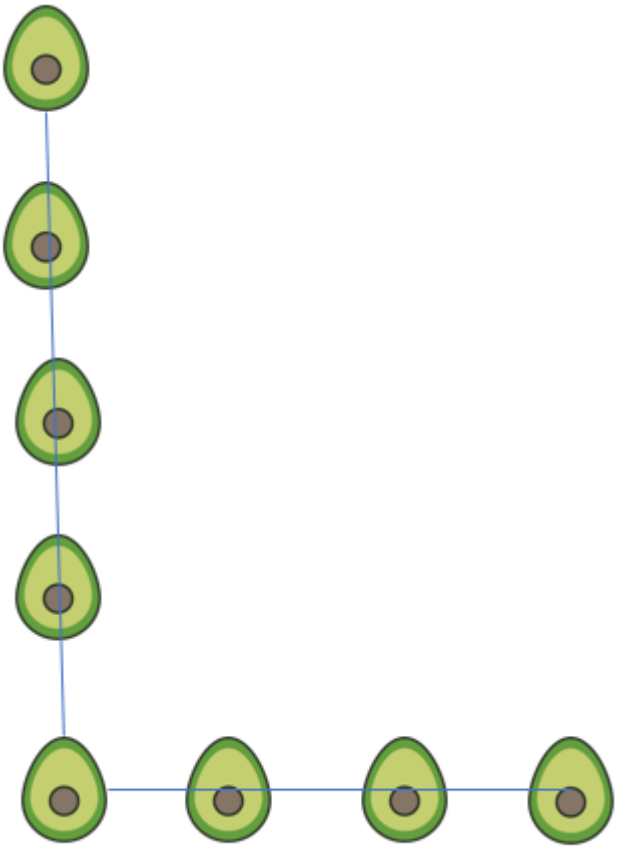


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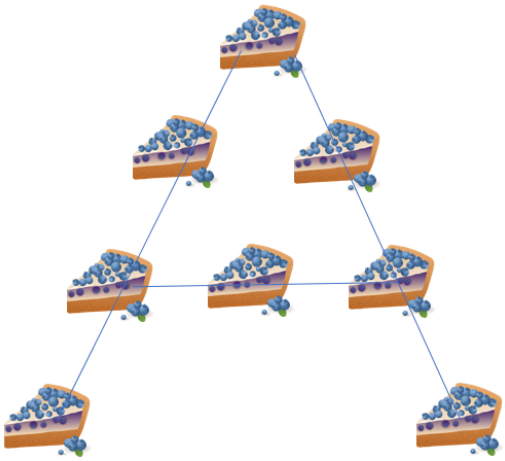
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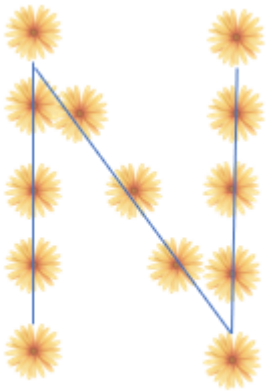
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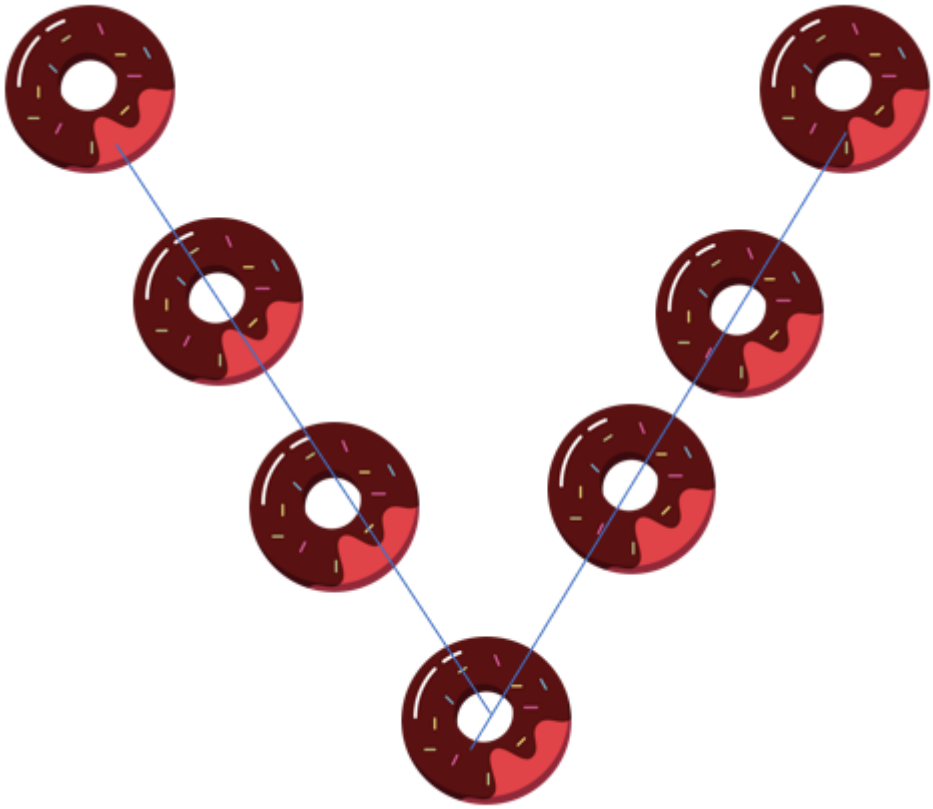
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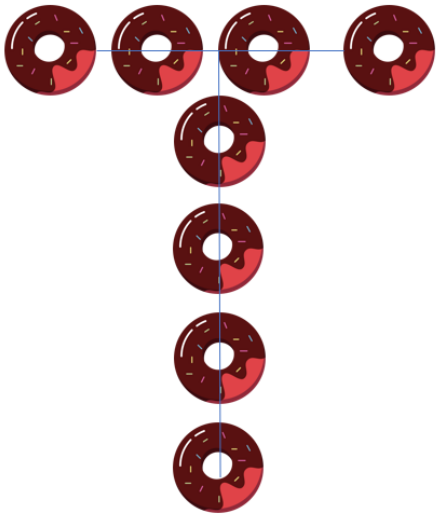
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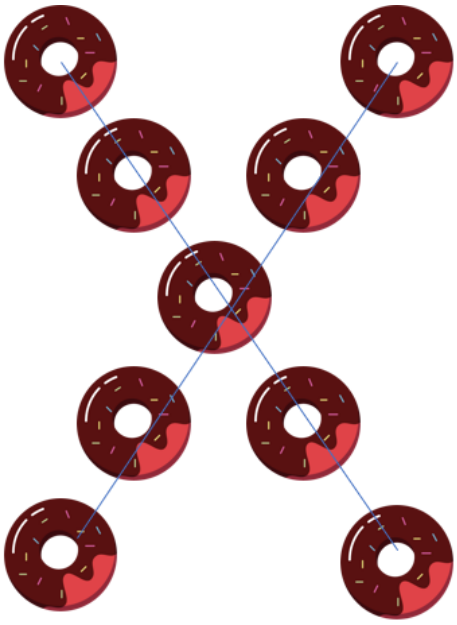
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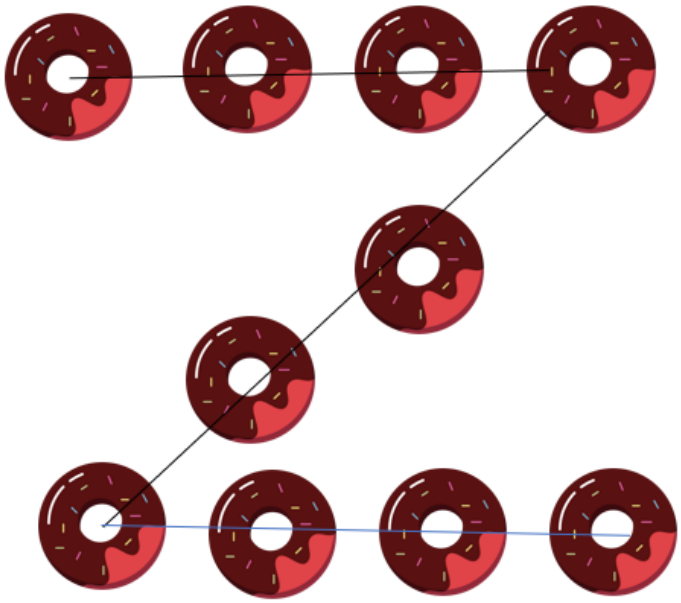
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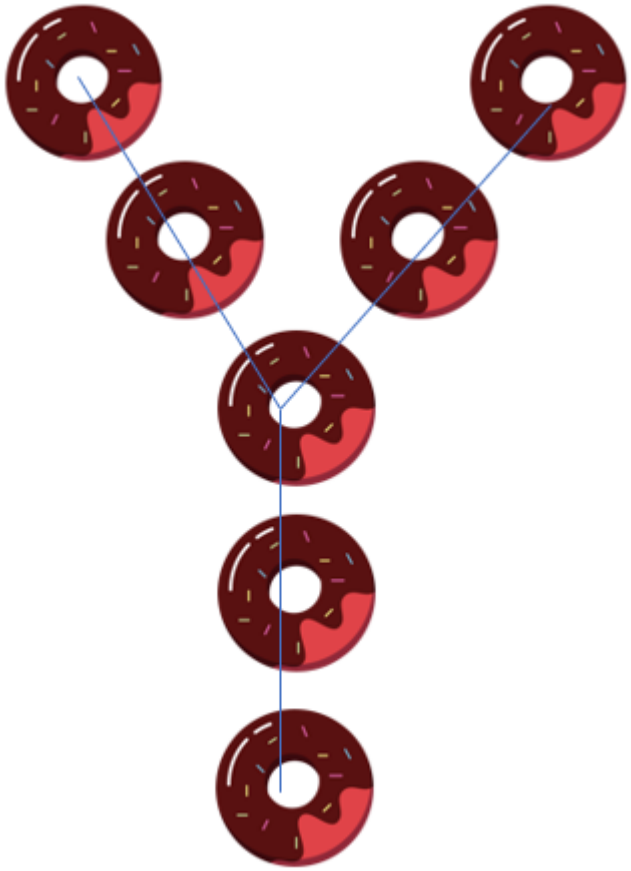
23 x



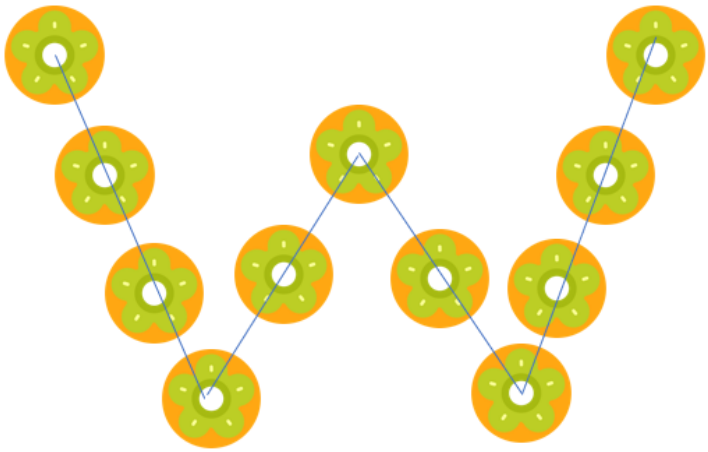
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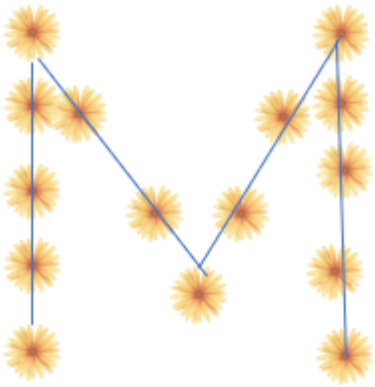
25 Y



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

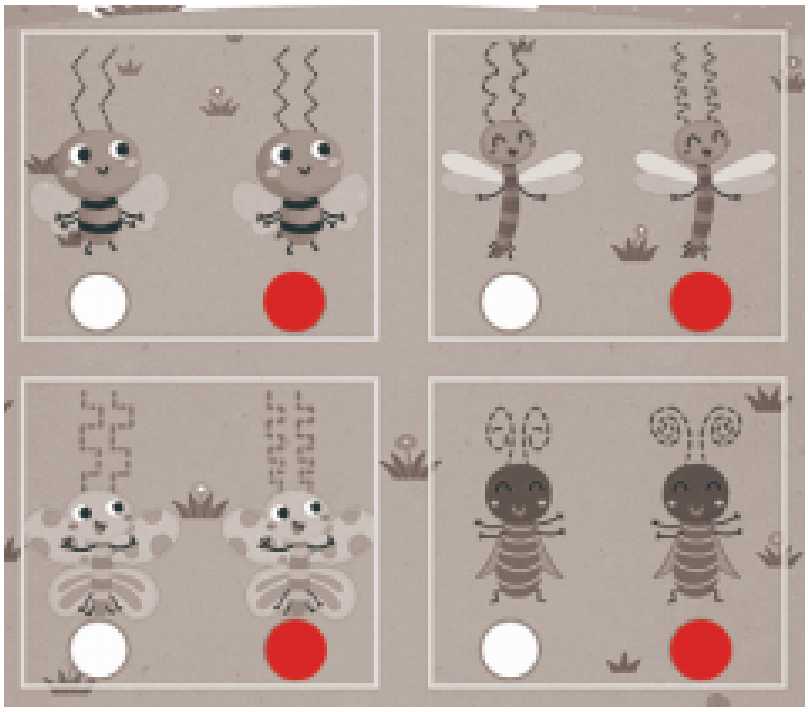
20 9;12

15;12

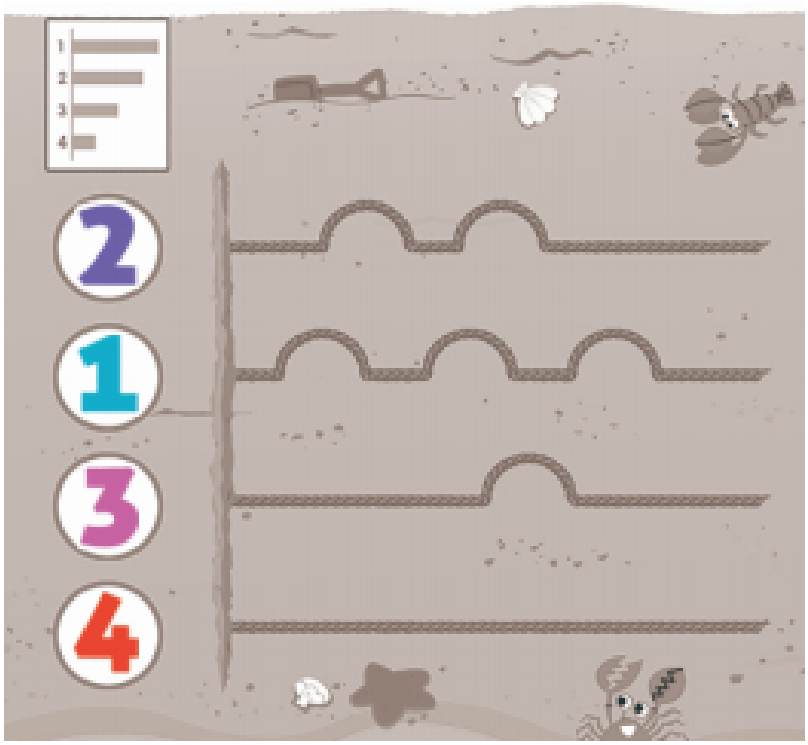
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Chapter 8 Compare Length

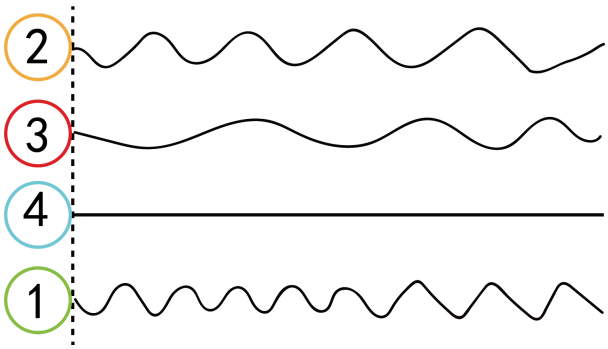
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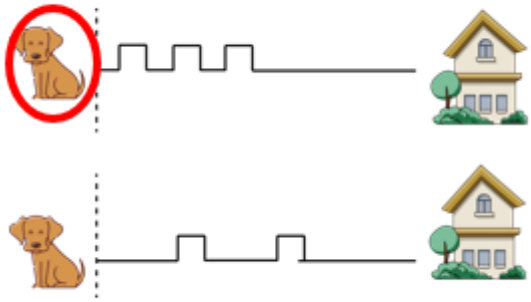
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3



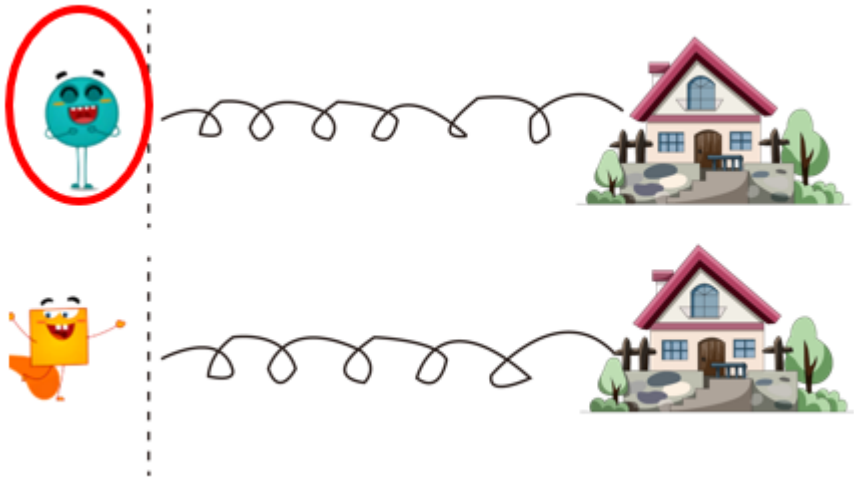
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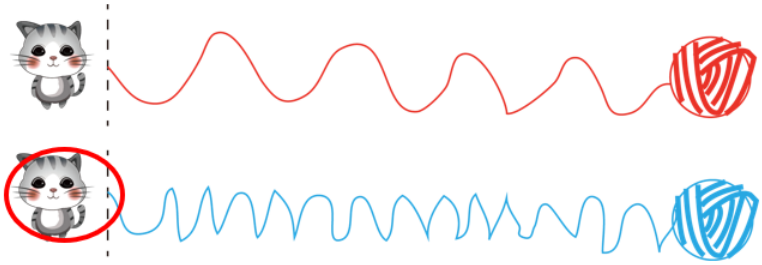
5 D

6 4 3 2 1.

7

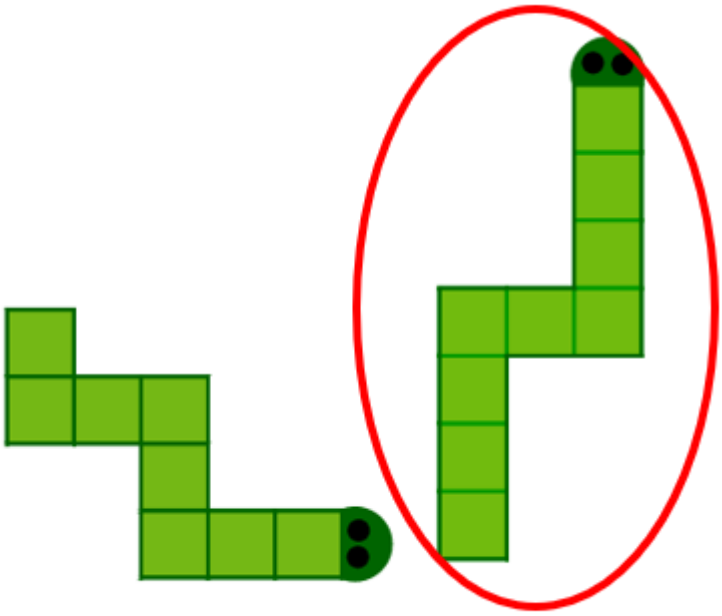


8



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.

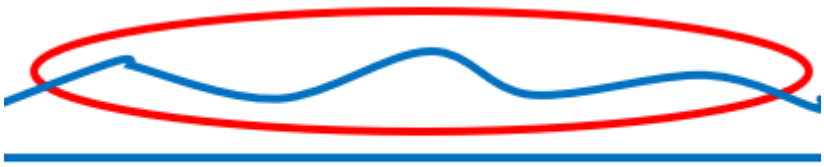
17 The blue arrow.

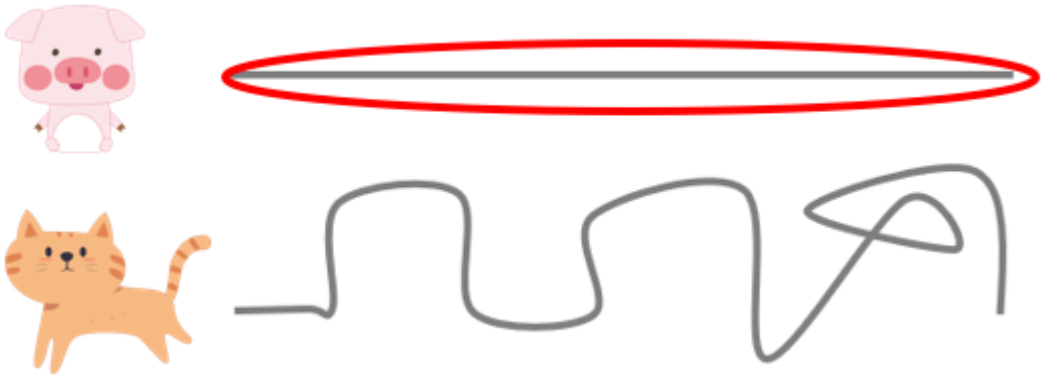
18 The red arrow.

19 The purple arrow.

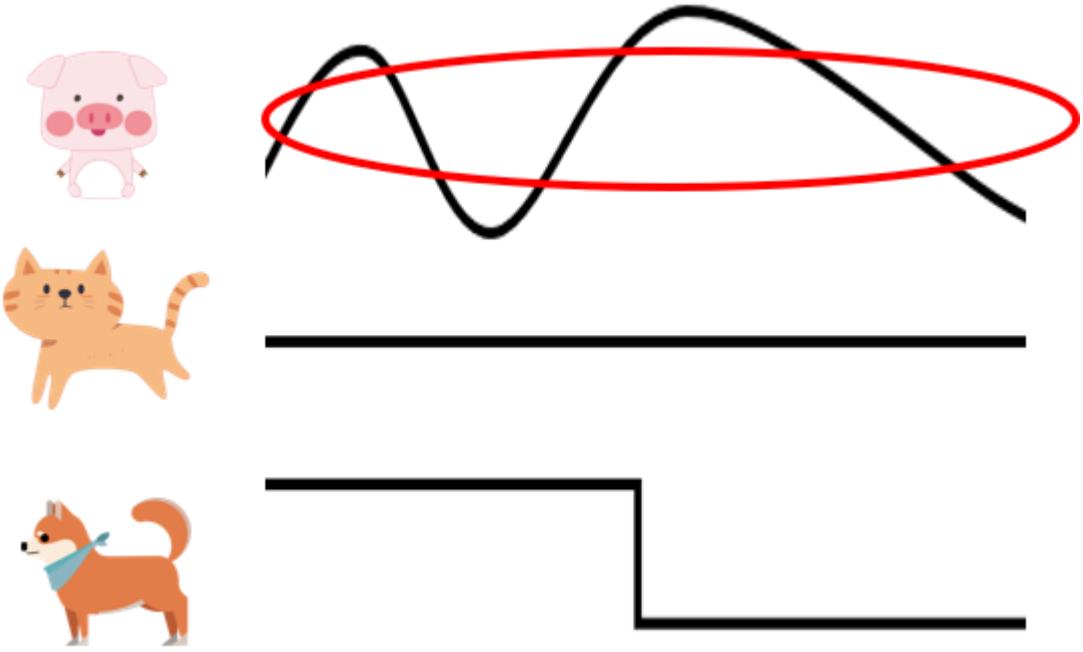
20 As long as.

21 The blue arrow.

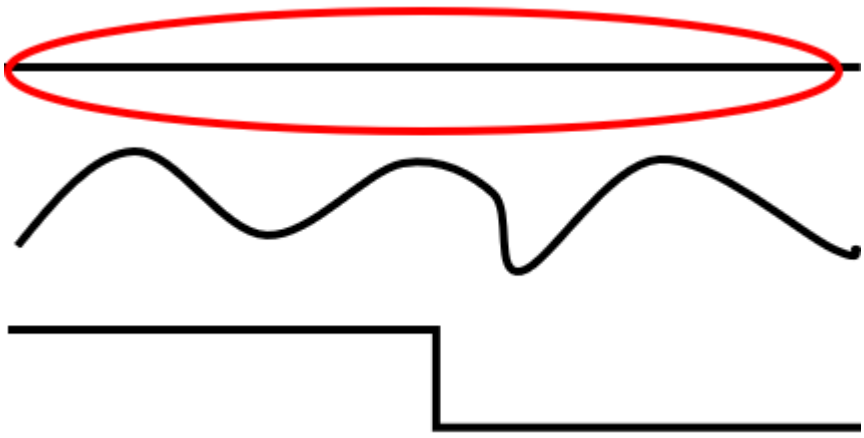
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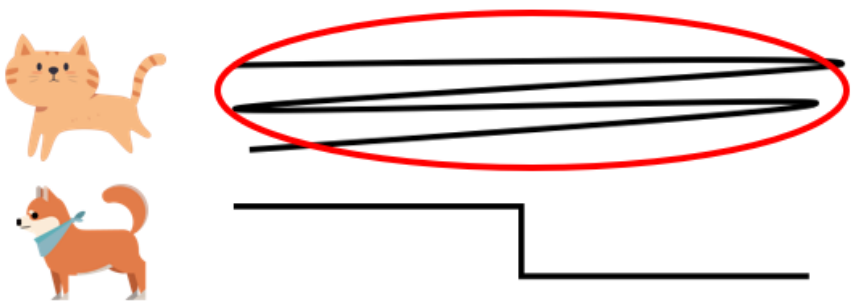
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25



26

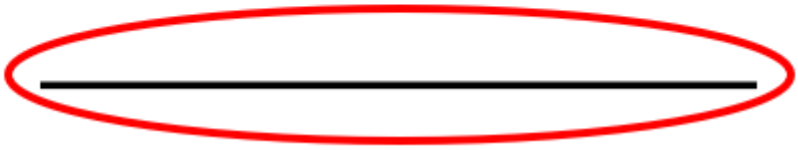


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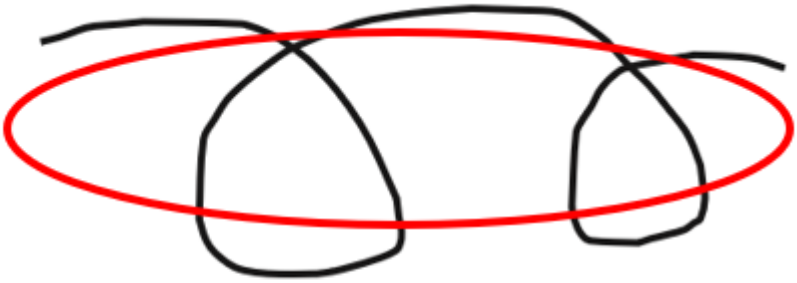






28







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



5



6



7



8



9



10



11



12



13



14



15



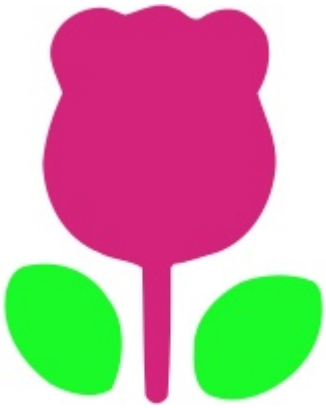
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17



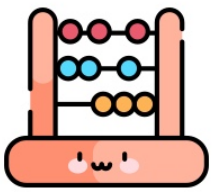
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19



20



21



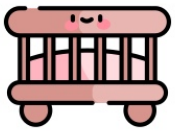
22



23



24



Chapter 10 Cut & Form Shapes

1



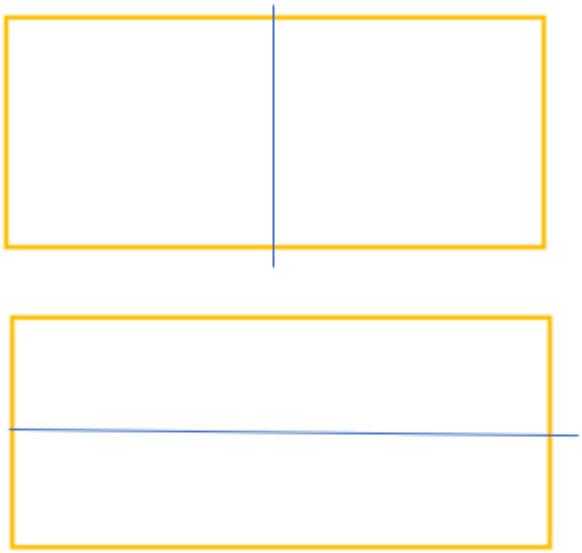
More than 1 correct answer.

2

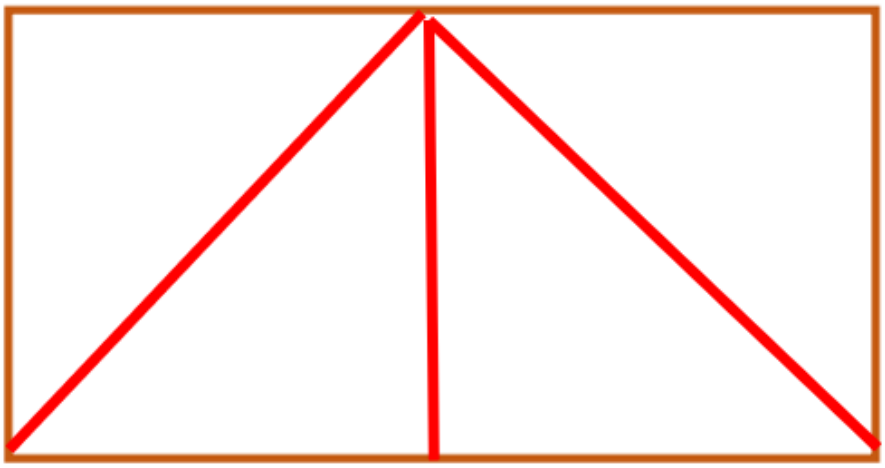


More than 1 correct answer.

3

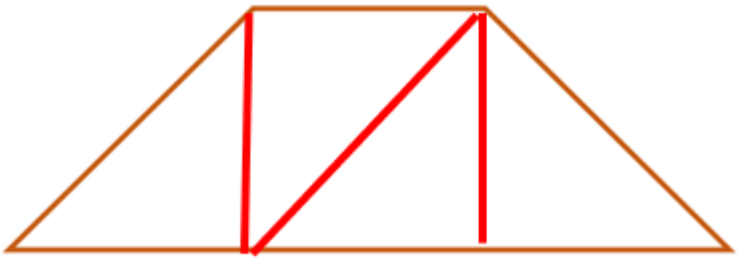


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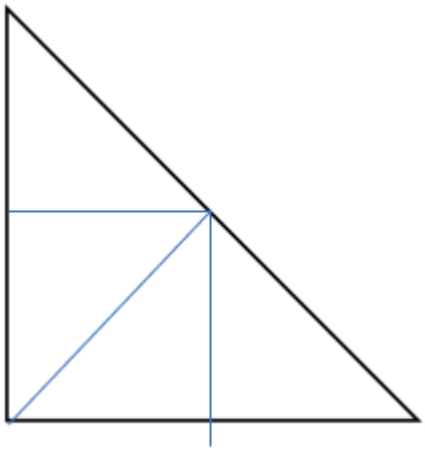
More than 1 correct answer.

5



More than 1 correct answer.

6



More than 1 correct answer.

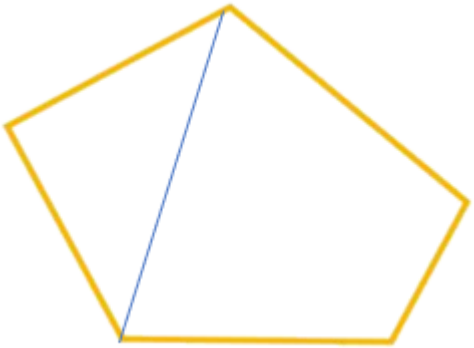
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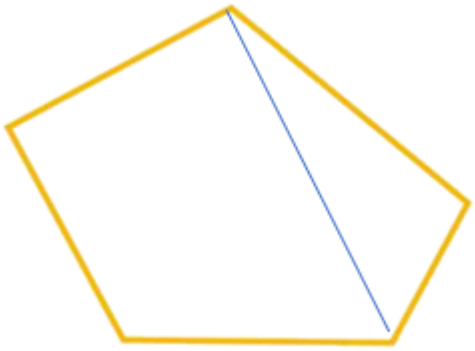
More than 1 correct answer.

8 4

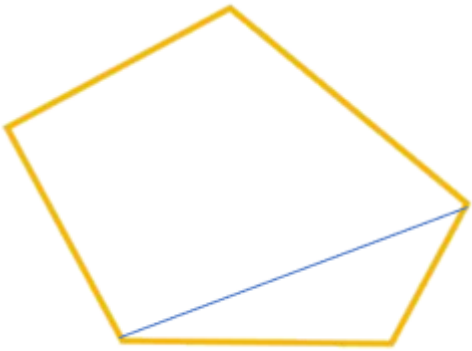
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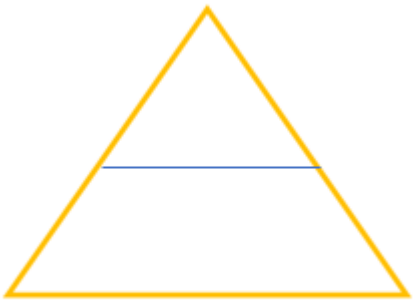
or



or



10



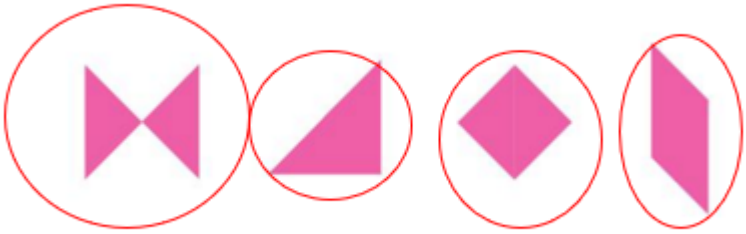
More than 1 correct answer.

11 Square, triangle and parallelogram

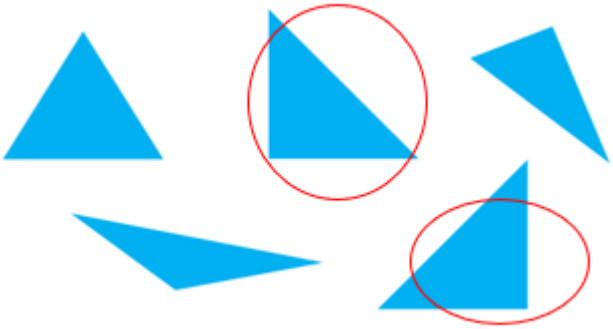
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13



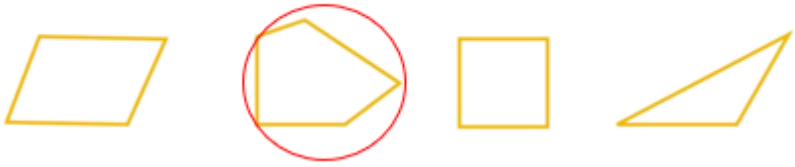
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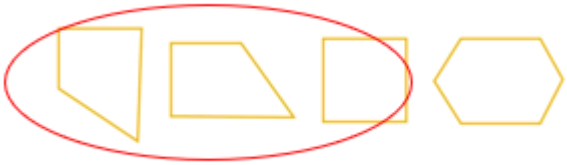
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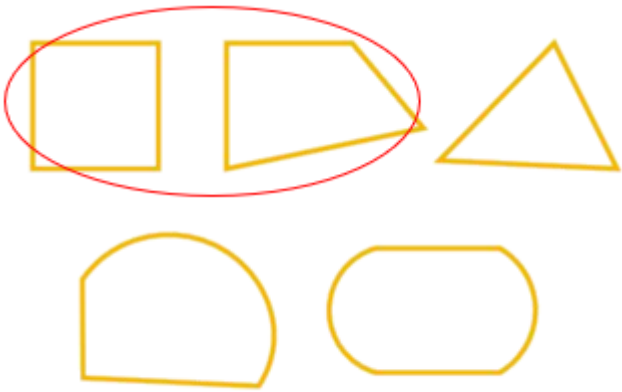
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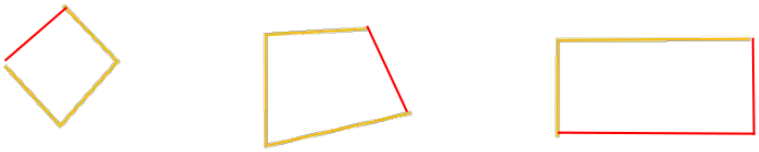
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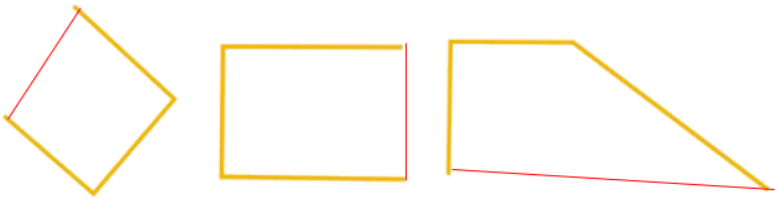
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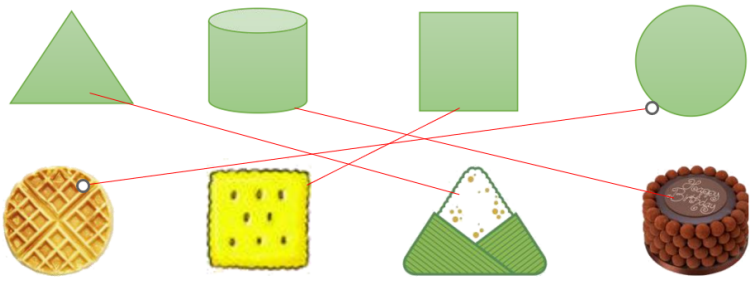
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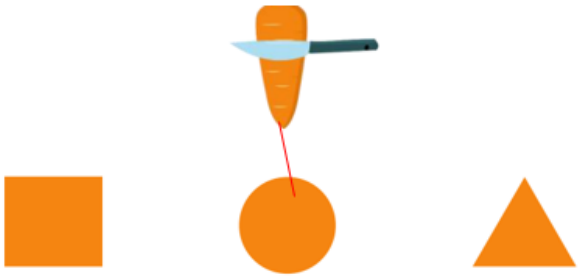
20



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.

18 

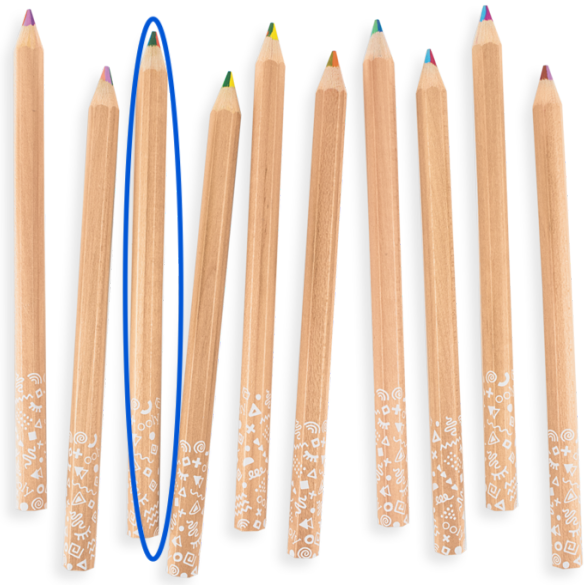
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21 4

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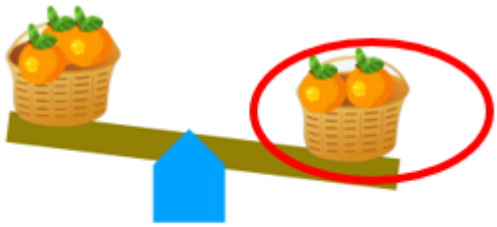
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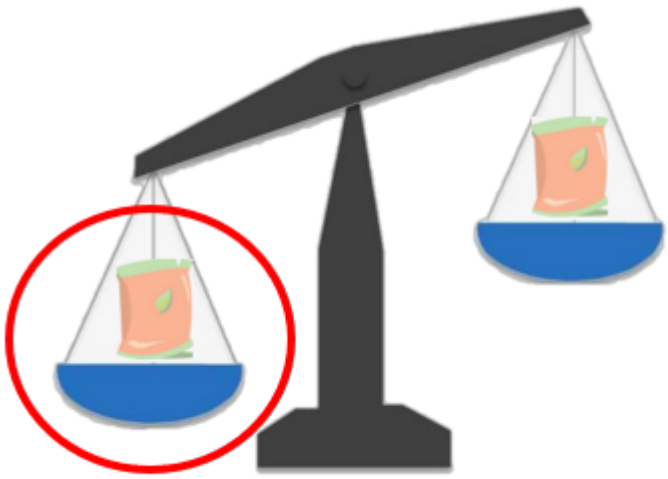
Chapter 13-15

Chapter 13 Balance

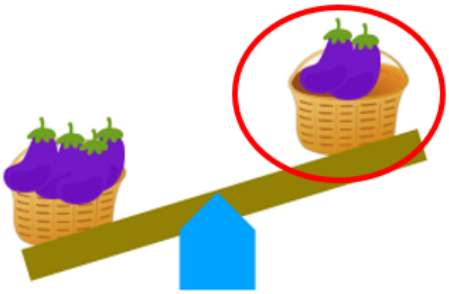
1



2

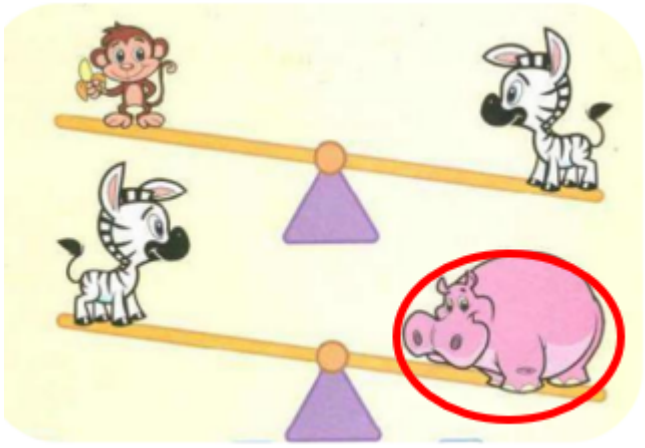


3



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

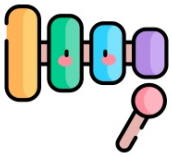
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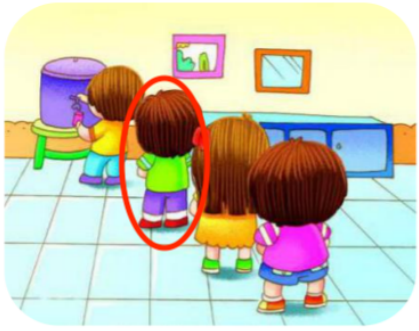


10



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 


Think Academy