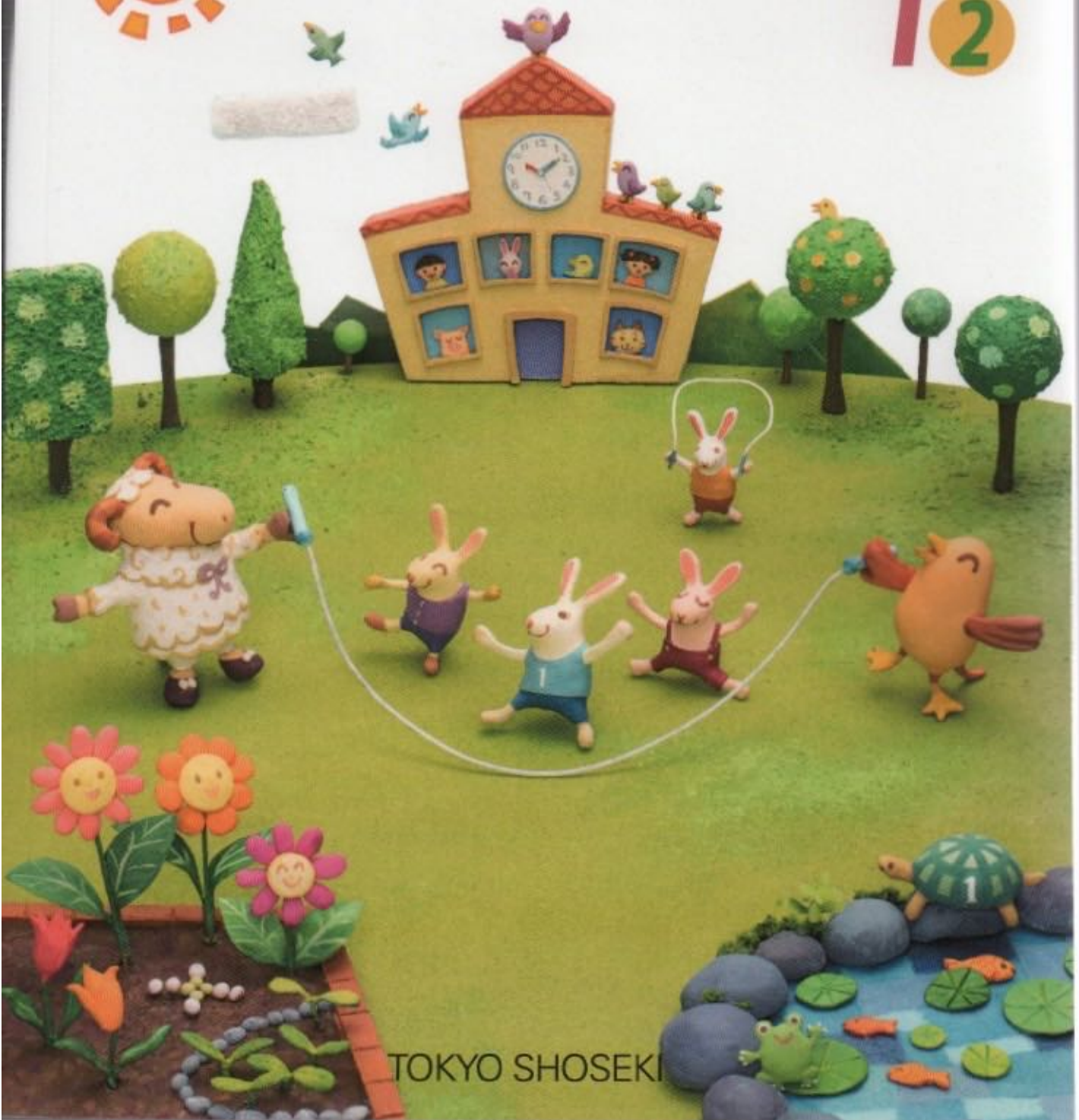
New Mathematics
for Elementary School

1 2



TOKYO SHOSEKI

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Notice to Teachers and Parents

About the "D" Symbol * Available in Japanese only.

- Sections marked with this symbol have additional materials available online.
- Tell your teacher or parent before you use the Internet.

Use of the online contents marked with the "D" symbol is free of charge, if you have Internet access.

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Mathlin

To Study Online

Use the URL below or QR code on the right to access online content.

https://tsho.jp/02p/m1b/

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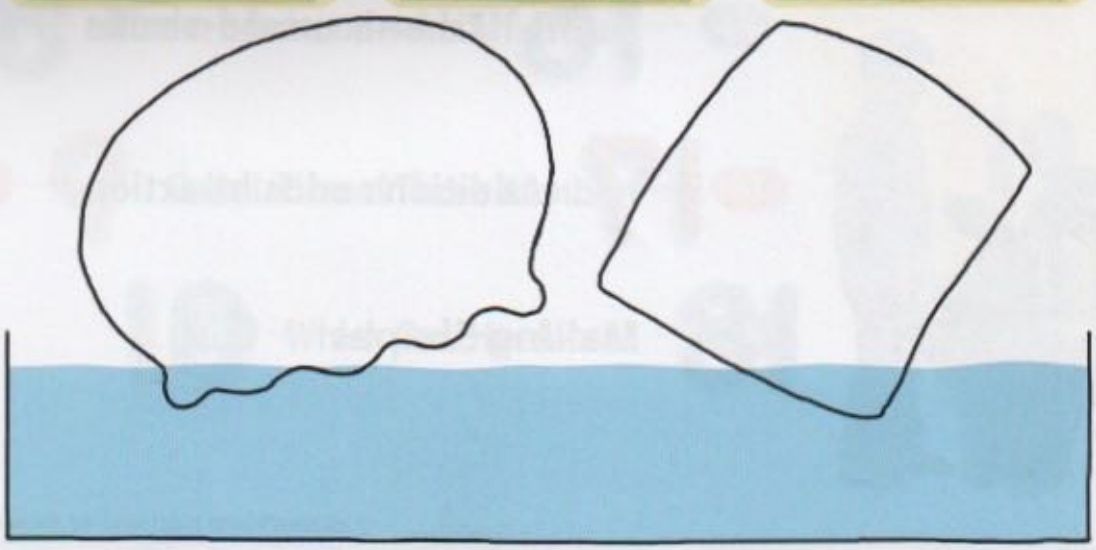
1 Making Groups and Numbers

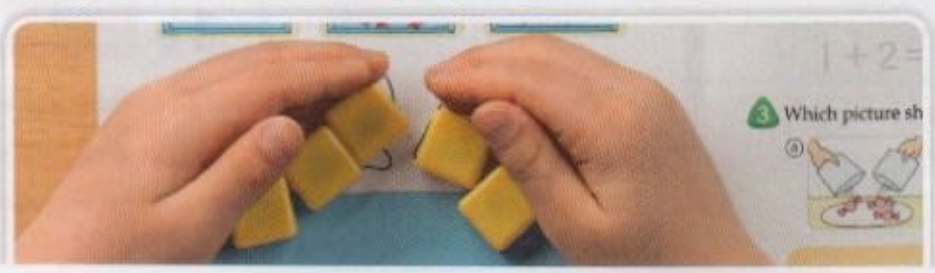
2 Ordinal Numbers

3 Adding Together and Adding More

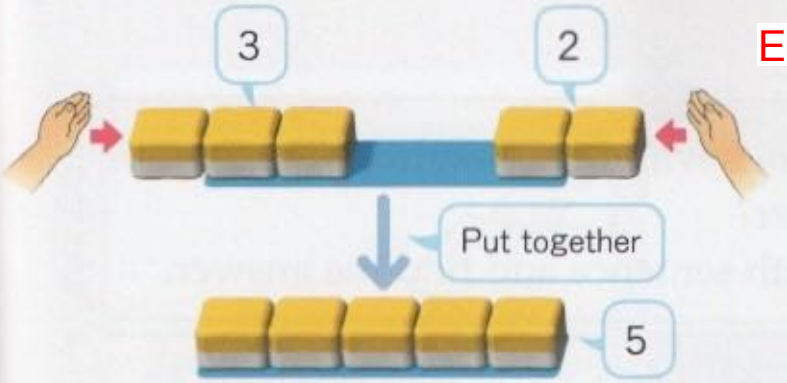
Adding Together

1 Look at the picture and move the blocks.





Enunciado aritmético

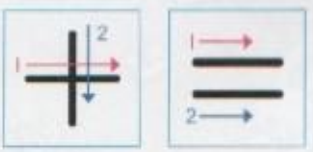


If you put 3 and 2 together, it makes 5.

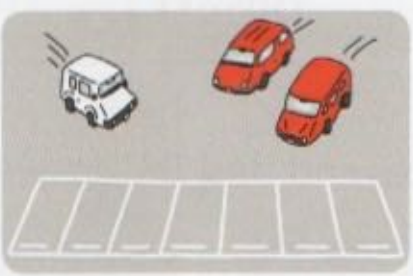
This can be written as below.

Math Sentence $3+2=5$

3 plus 2 equals 5



2 Look at the picture and write a math sentence.

① 

$1+2=3$

② 

$\square + \square = \square$

3 Which picture shows the math sentence $3+1$?

ⓐ 

ⓑ 

ⓒ 

Calculations like $3+2$ and $1+2$ are called **addition**.

Enunciado artitmético

4 How many rabbits will there be when you put them all together?
Write it as a math sentence and find the answer.

Math Sentence ☐ + ☐ = ☐ Answer ☐ rabbits

5 Write these as math sentences and find the answers.

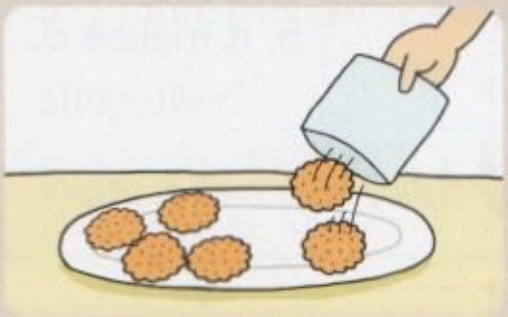
① We are going to put 2 pencils and 5 pencils together.
How many pencils will there be altogether?

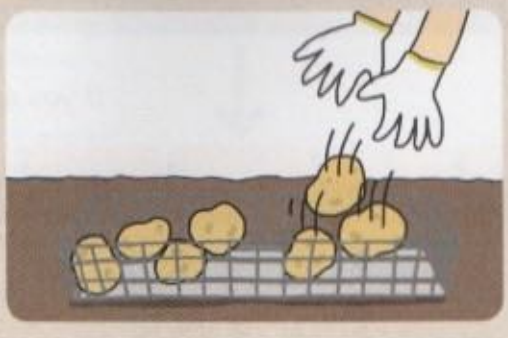
Math Sentence 2 + 5 = 7
Answer 7 pencils

② There are 6 flowers and 2 flowers.
How many flowers are there altogether?

Suma

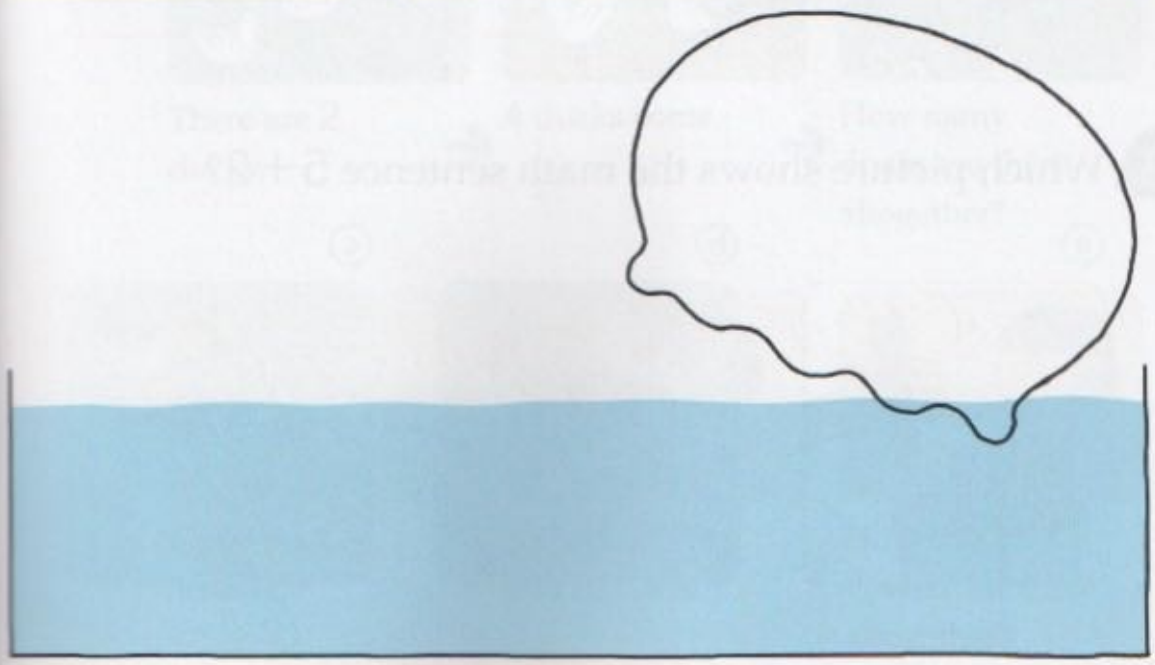
What is happening?



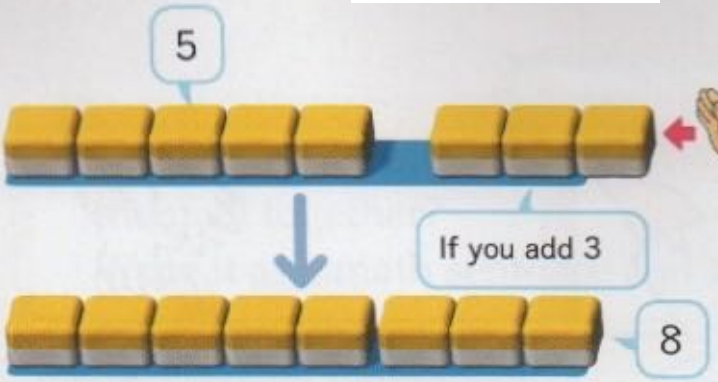


Adding More

1 Look at the picture and move the blocks.



Resolver sumas

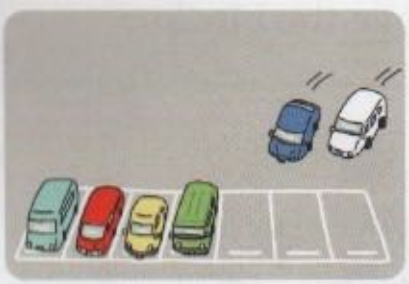


If you add 3 to 5, it makes 8.

$5 + 3 = 8$

This is also addition.

2 Look at the picture and write a math sentence.

① 

$4 + 2 = 6$

② 

$\square + \square = \square$

3 Which picture shows the math sentence 5 + 2?

ⓐ 

ⓑ 

ⓒ 

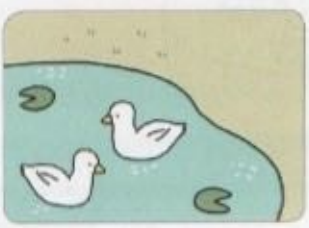
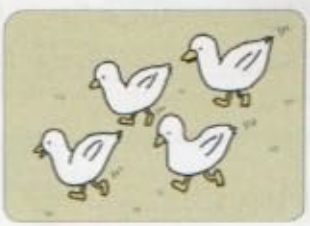
sumas con enunciado formal

4 If 3 more cats come, how many cats will there be altogether?

Write it as a math sentence and find the answer.

Math Sentence ☐ + ☐ = ☐ Answer ☐ cats

5 Write these as math sentences and find the answers.

①  There are 2 ducks. →  4 ducks come. →  How many ducks are there altogether?

②  There are 4 flowers. →  3 more are put into the vase. →  How many flowers are there altogether?

Sumas sin contexto

6 Calculate these addition problems.

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

7 There are 2  .

There are 6  .

How many cakes are there altogether?

8 There are 7 children.

3 more came to play.

How many children are there altogether?

Flashcards. Juego entre dos de sumas hsta diez

Se Puede Retomar

Cards

(Practice)

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

Front	Back
3+4	7

Alone

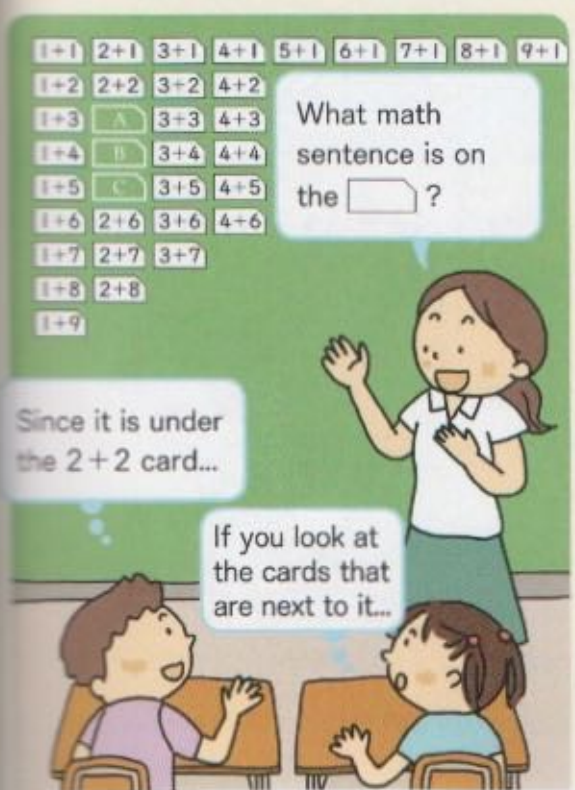
Practice addition.

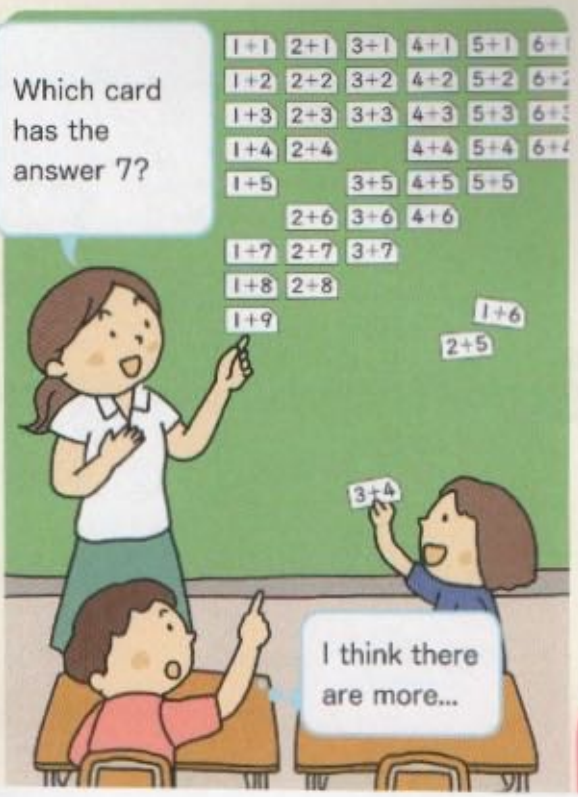
In pairs

Give problems to each other.

Whole class

Arrange the flash cards and think.





Sumando cero

Adding 0

1 How many balls did  get into the basket?

Look at the picture and write a math sentence.

1st time

2nd time

$1 + 3 = 4$

1st time

2nd time

$2 + \square = \square$

2 The number of balls  got in the basket can be shown as $0 + 3$. How many balls went in each time?

Draw ● in the basket.

1st time

2nd time

$0 + 3 = \square$

3 How many balls went in each time?

① $1 + 0$

1st time

2nd time

② $0 + 2$

1st time

2nd time

③ $0 + 0$

1st time

2nd time

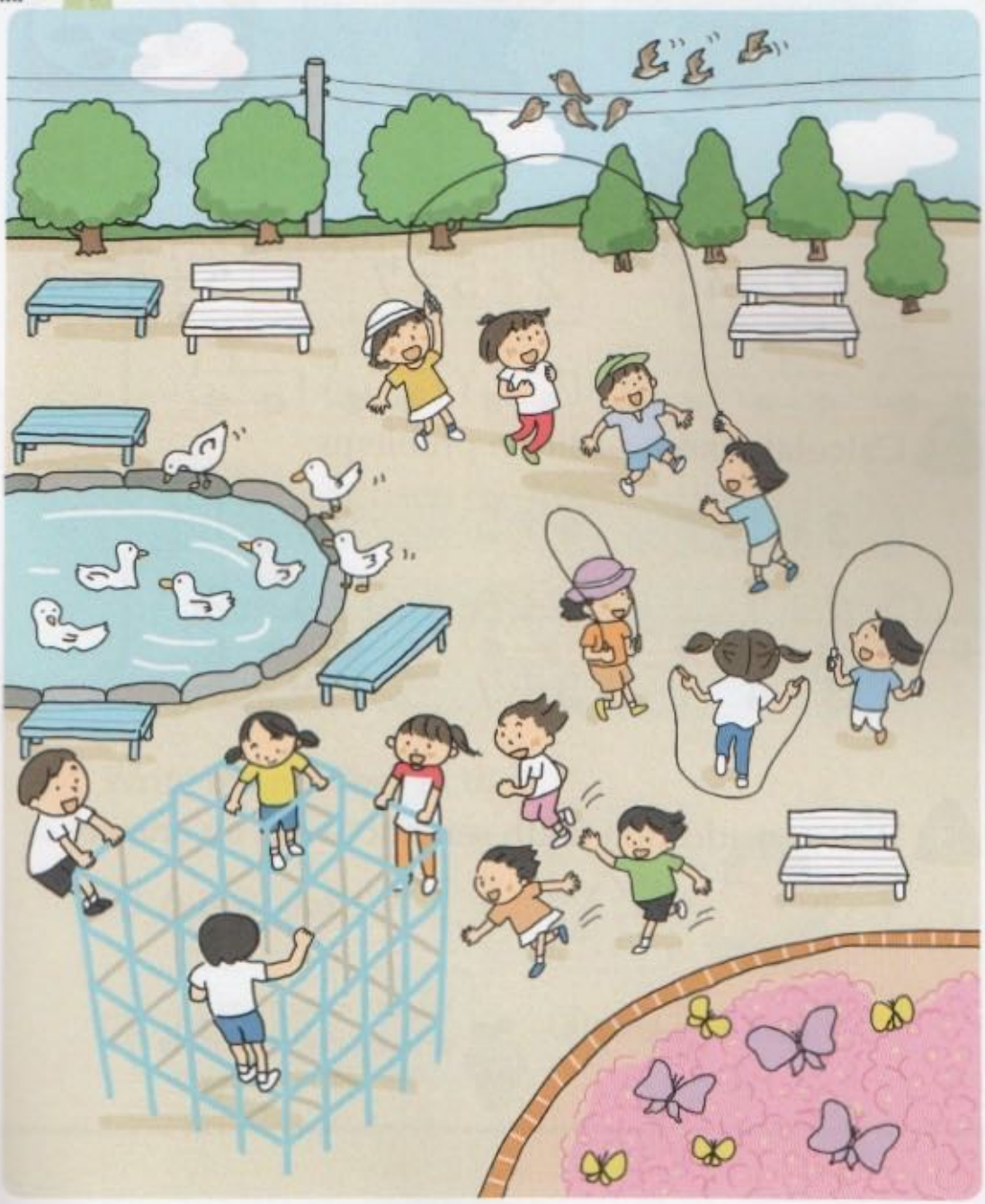
Se Puede Retomar

1

Make stories for the math sentence 4 + 3.

Ami

There are 4 sparrows. 3 more sparrows came.
Altogether there are 7 sparrows.



Check Your Understanding

1 Match pictures and math sentences with lines.

ⓐ

ⓑ

ⓒ

$2+2=4$	$2+5=7$	$5+4=9$

2 Calculate these addition problems.

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

3 Write an addition math sentence with an answer of 9.

$\square + \square = 9$

You can make many different math sentences.

Do You Remember?

1 Count how many.

① 

② 

2 Circle the items.

① The first 3 cars from the front.

② The 5th car from the front.

Se Puede Retomar

3 Write the number in the □.

① 6 is 4 and □

② 9 is 3 and □

③ 10 is 9 and □

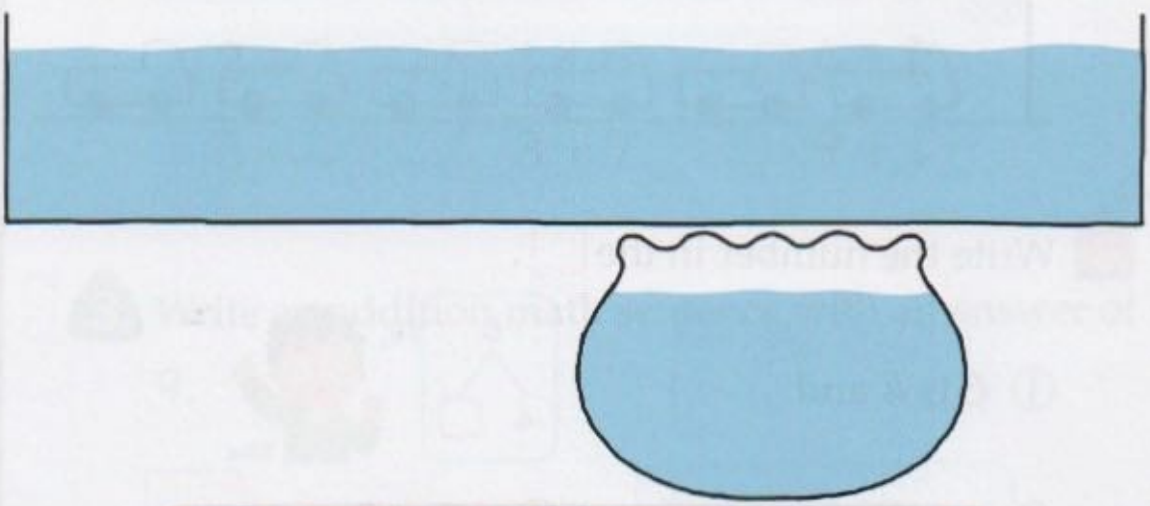
Restas

4 What is Left and What is the Difference?

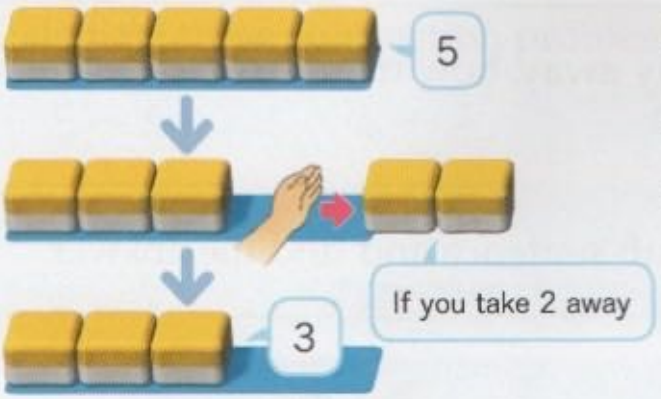
What is happening?

Taking Away

1 Look at the picture and move the blocks.



Restas



If you take
2 away from 5,
it is 3.

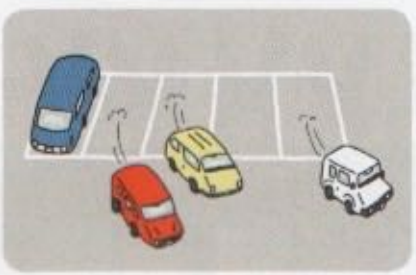
This can be written as below.

Math Sentence $5-2=3$

5 minus 2 equals 3

2 Look at the picture and write

Se Puede Retomar

① 

$4-3=1$

② 

$\square - \square = \square$

3 Which picture shows the math sentence $4-1$?

ⓐ 

ⓑ 

ⓒ 

Calculations like $5-2$ and $4-3$ are called **subtraction**.

4 If 2 sparrows fly away, how many sparrows will be left?

Write it as a math sentence and find the answer.

Se Puede Retomar

Math Sentence ☐ − ☐ = ☐ Answer ☐ sparrow(s)

5 Write these as math sentences and find the answers.

①

There were 3 flowers. →

I gave her 1 flower. →

How many are left?

②

There were 5 balloons. →

3 flew away. →

How many are left?

Se Puede Retomar

6 Calculate these subtraction problems.

5 − 4	4 − 2	9 − 5
6 − 1	8 − 2	7 − 4
9 − 7	10 − 3	10 − 6

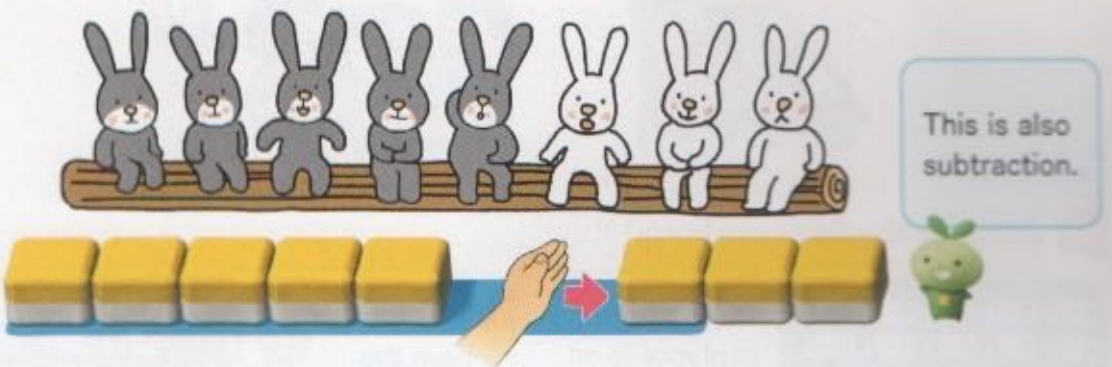
Se Puede Retomar

7 There are 8 rabbits.

3 of them are  .

How many  are there?

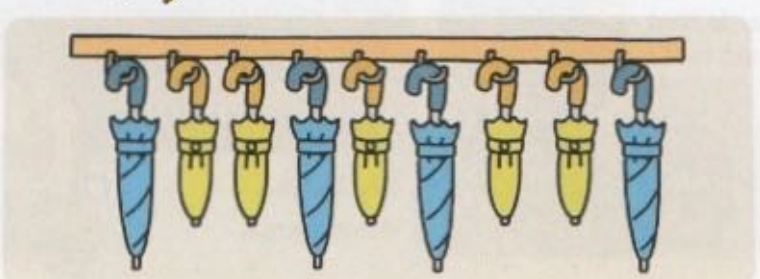
resta de comparación, no de quitar



8 There are 9 umbrellas.

4 of them are  .

How many  are there?



Se Puede Retomar

Using Flash Cards

(Practice)

2−1	3−1	4−1	5−1	6−1	7−1	8−1	9−1	10−1
	3−2	4−2	5−2	6−2	7−2	8−2	9−2	10−2
		4−3	5−3	6−3	7−3	8−3	9−3	10−3
			5−4	6−4	7−4	8−4	9−4	10−4
				6−5	7−5	8−5	9−5	10−5
					7−6	8−6	9−6	10−6
						8−7	9−7	10−7
							9−8	10−8
								10−9

Front	Back
8−4	4

Alone

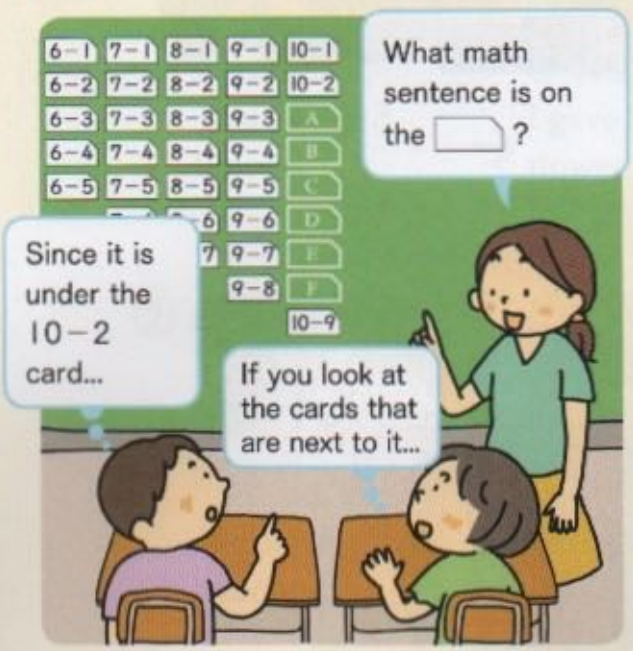
Practice subtraction.

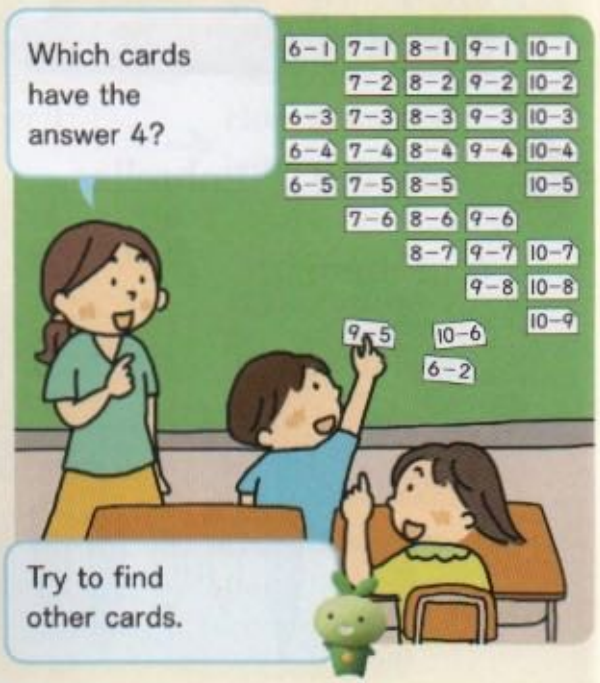
In pairs

Give problems to each other.

Whole class

Arrange the flash cards and think.





They have 3 cards each.

Subtracting 0

1 How many cards are left?

If you put down 1 card...

$3 - 1 = \square$

If you put down 2 cards...

$3 - \square = \square$

If you put down 3 cards...

$3 - \square = \square$

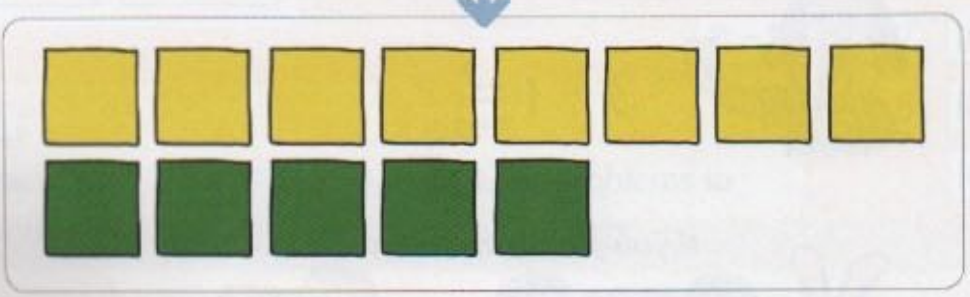
If no cards are put down...

$3 - \square = \square$

2 $5 - 5$ $6 - 0$ $0 - 0$

Pasando a más de diez

Difference



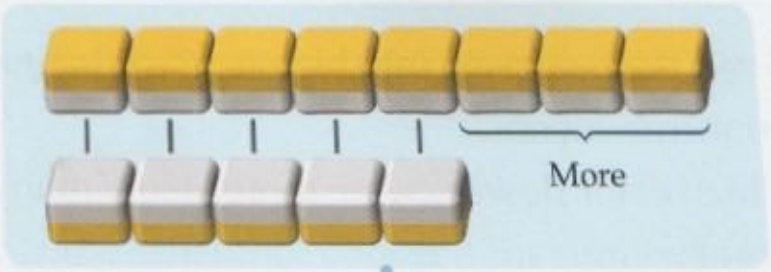
Yellow

pieces

Green

pieces

1 There are 8 pieces of yellow origami paper.
There are 5 pieces of green origami paper.
How many more pieces of yellow origami paper are there than green origami paper?

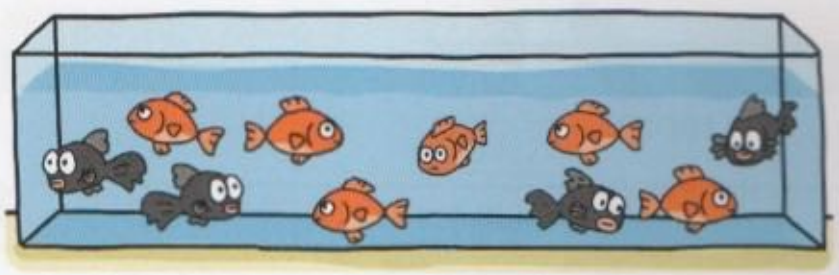


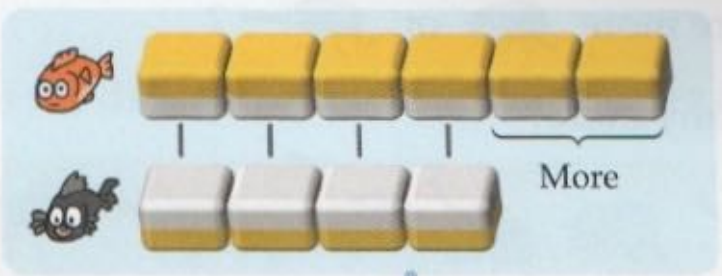
This is also subtraction.

$8 - 5 = \square$

Answer $\square$ pieces

2 How many more  are there than  ?





Math Sentence $\square - \square = \square$

Answer $\square$ fish

Se Puede Retomar

comparación (diferencia)

3 8 red flowers came into bloom. 7 white flowers came into bloom.
Which color flowers were more? How many more?

Math Sentence

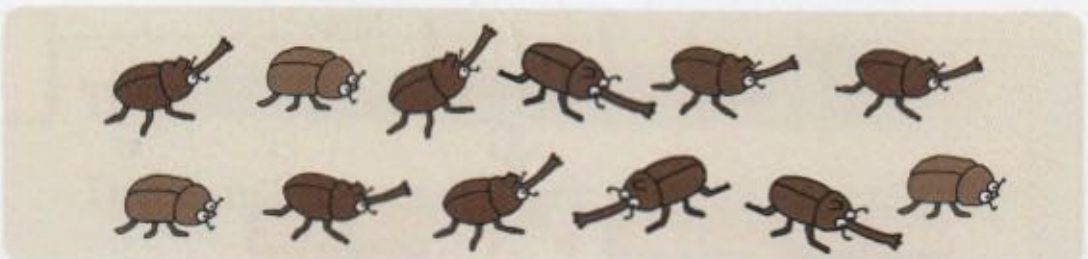
_____

Answer ☐ more ☐ .

_____

4 Are there more  Female or  Male ?

How many more?



Math Sentence

_____

Answer ☐ more ☐ .

_____

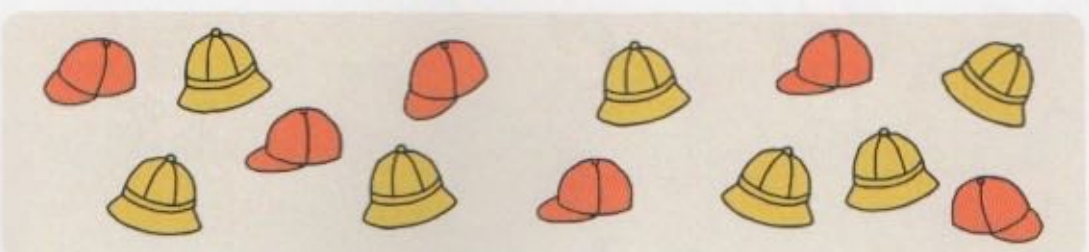
5 There are 8  .

There are 6  .

What is the difference between the number of  and the number of  .

Math Sentence _____ Answer ☐ cakes

6 What is the difference between the number of  and the number of  .



Math Sentence _____ Answer ☐ hats

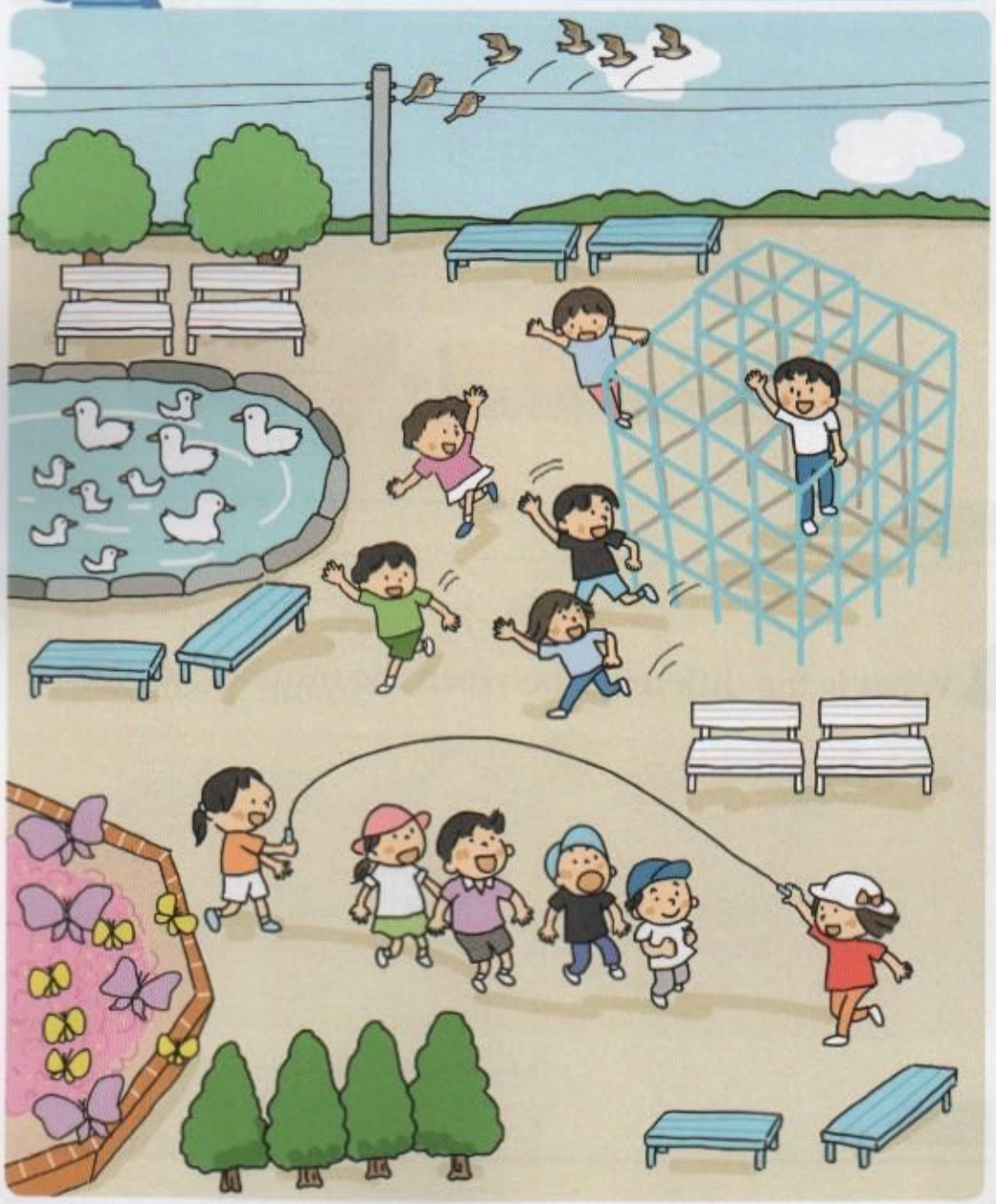
Making M

1 Make a story for the subtraction math sentence $6-4$.

Kota

There are 6 small butter
difference is 2.

Se Puede Retomar



Check Your Understanding

1 Match pictures and math sentences with lines.

ⓐ

ⓑ

ⓒ

$6-2=4$

$5-1=4$

$7-3=4$

2 Calculate these subtraction problems.

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

3 Write a subtraction math sentence with an answer of 3.

Select the number that fits in ☐ from ▭.

ⓕ ☐ − ⓖ ☐ = 3

ⓕ 4 5 6 7 8 9 10

ⓖ 1 2 3 4 5 6 7

Longitud

What is being compared?

I want to use the higher bar.

Oto

I wonder which cucumber is longer.

Rintaro

I wonder which vine is longer.

Takuya

We can't tell.

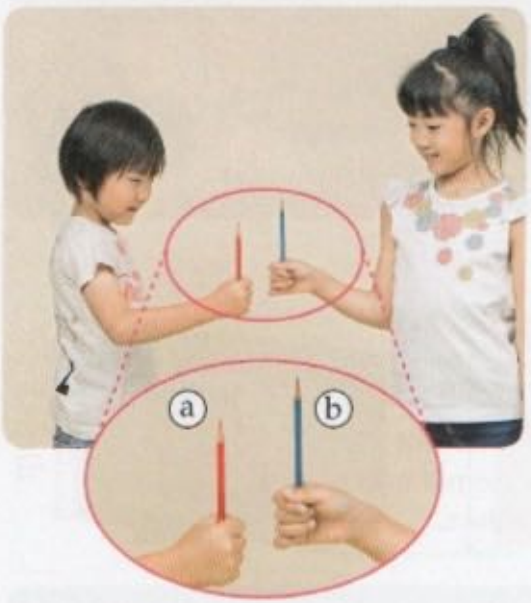
Momo

5 Which One is Longer?

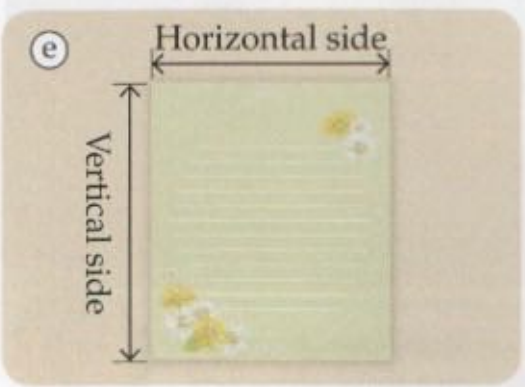
1

Think about how to compare lengths.

① Which one is longer?

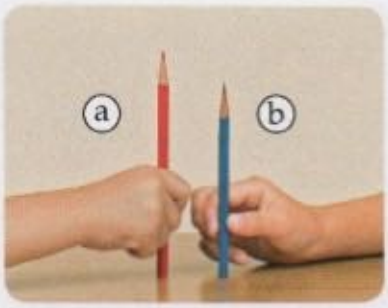


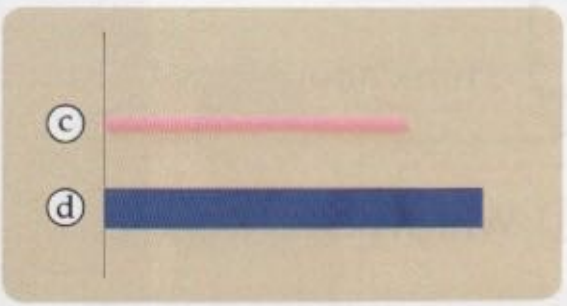
② Which side is longer?



How do you compare lengths?

① Compare directly





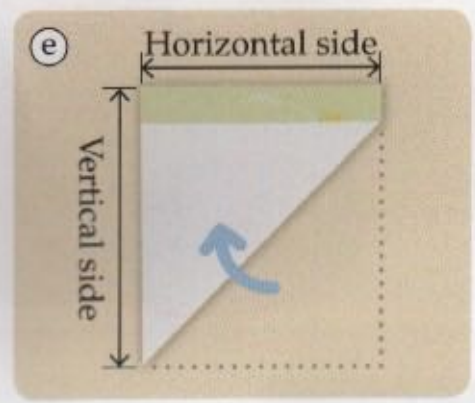
Riku

Line the ends up, then...

Make them straight, then...

Shiho

② Compare indirectly



Fold one corner over, then...

Kota

Misaki

You can't fold the case, so...

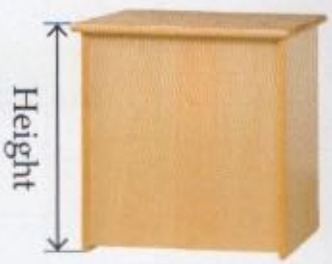
Mark down the length on a paper strip, then...

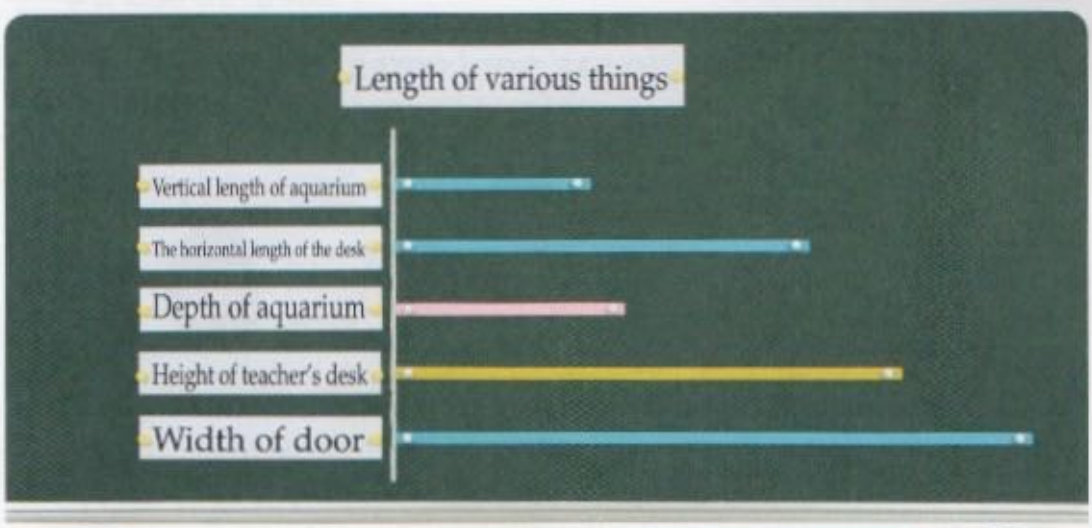
Haruto

2 Mark down the lengths on a paper strip and compare them.

I want to put this tank on top of the shelf over there.

This tank may stick out.





Ami

I wonder how much the differences are.

I wonder if we can compare the lengths without using pieces of tape.

Riku

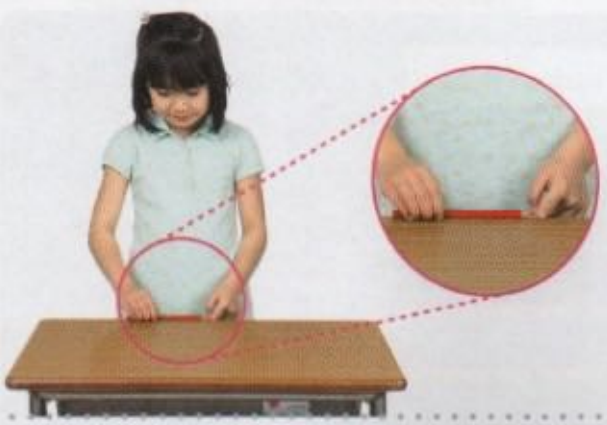
3

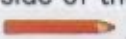
Compare lengths without using pieces of tape.

The length of one side of the desk is 5  .
The length of the other side of the desk is 3  .

Yuji

How is he comparing lengths?



The length of one side of the desk is 4  .
The length of the other side of the desk is...

Yumiko

If you show lengths by telling how many  or  long they are, you can compare lengths by using numbers.

Longitud con unidades

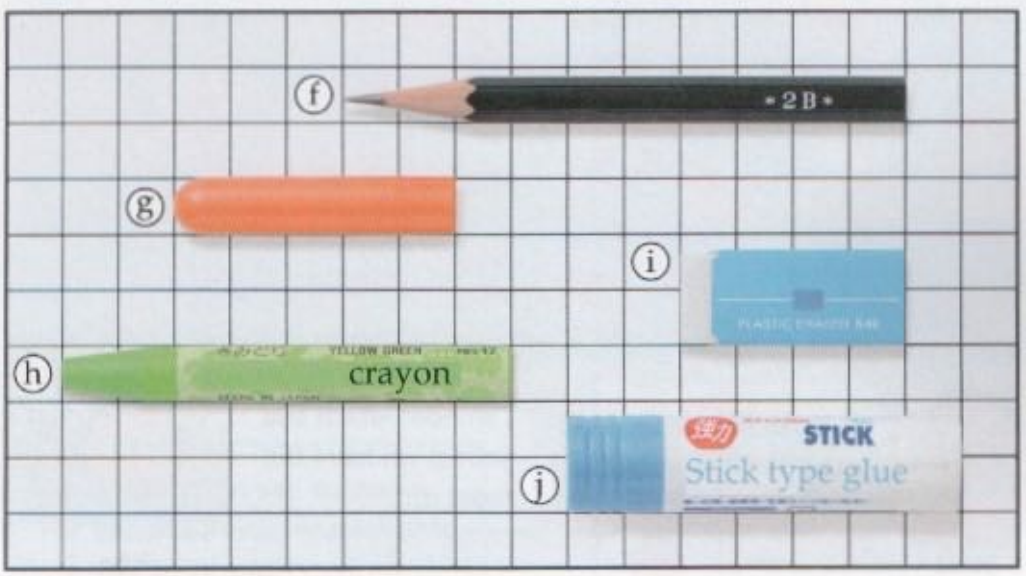
4 Which one is longer?

ⓐ 

ⓑ 

5 Please find the length of each

Se Puede Retomar



① How many squares long are objects, ⓕ, ⓖ, ⓗ, ⓘ, and ⓙ?

② Which is longer, ⓕ or ⓗ?

By how many squares?

6 Let's Clearly Show How Many There are

They played a fishing game.

Hiro: Our team caught this ma

Kota: It looks like there are not many squid.

Shiho: I wonder which sea animal we have the most of.

1 Clearly show how many there are.

① Think about how to show how many there are.

Riku: It's not clear this way because the sea animals are different in size.

② Color how many of each animal there are.

Check off a sea animal in the picture above each time you color one.

Squid	Fish	Crab	Octopus

(Write)

Haruto

Also line them up in rows, then...

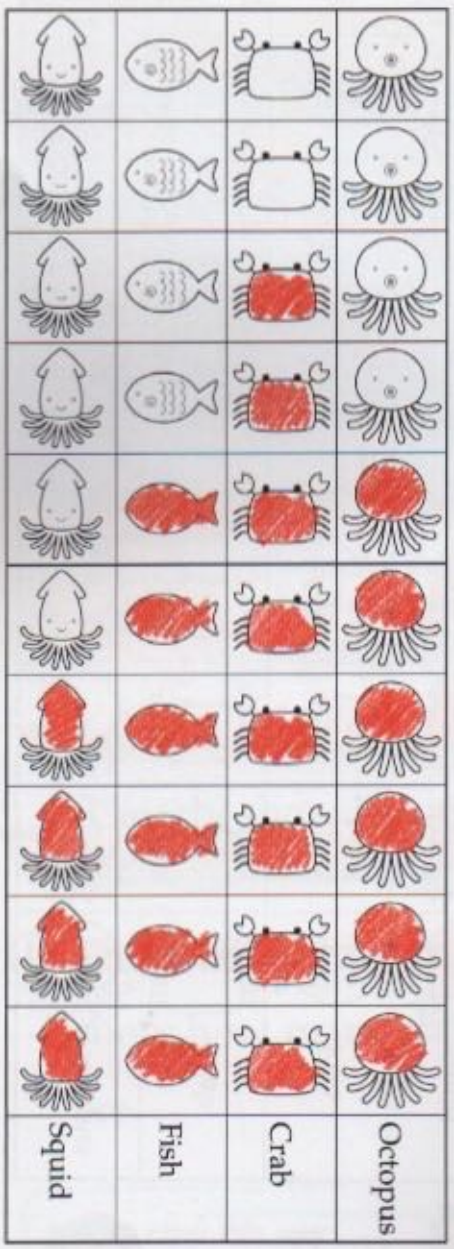
Lining the ends up is what we did when we compared lengths.

Misaki

2

Look at the colored ones.

What do you notice?



① Which sea animal is there the most of?

② Which sea animal is there the fewest of?

③ Which sea animals are the same in number?

④ How many fish are there?

Ami

I wonder which sea animal was the most in other teams' catches.

Repaso

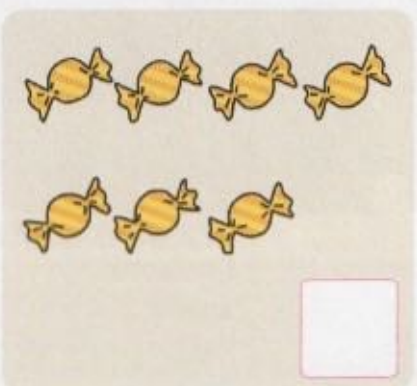
Do You Remember?

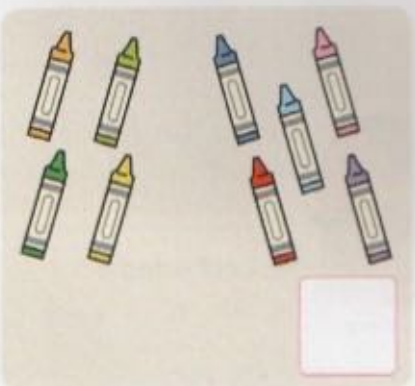
1 ① 4+2 ② 1+6 ③ 2+8
④ 3+5 ⑤ 6+3 ⑥ 4+4

2 ① 8−2 ② 9−7 ③ 6−5
④ 10−3 ⑤ 7−4 ⑥ 9−3

Warm-up

3 Count the numbers.

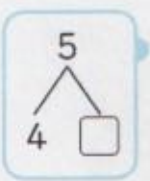
① 

② 

Warm-up

4 Write the number in the ☐.

① 5 is 4 and ☐




Shiho

② 9 is 4 and ☐

③ 10 is 6 and ☐

How many acorns did we collect?

We collected acorns.

Sara

I collected 8 acorns.

I collected ☐ acorns.

Atsuto

Masashi

The number of acorns I collected is...

More than 10...

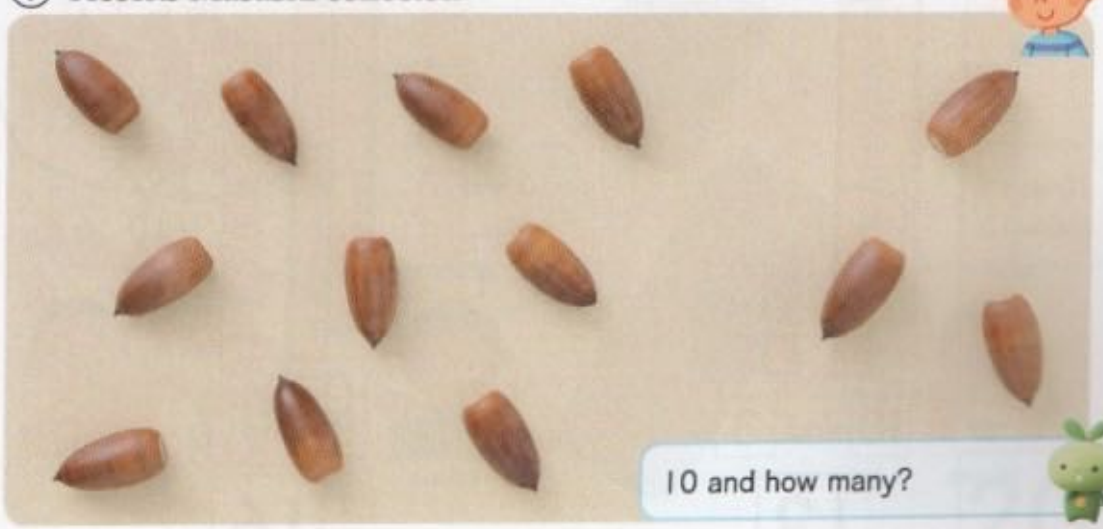
Miki

Cuánto más de 10

7 Numbers Greater Than 10

1 Count the number of the acorns.

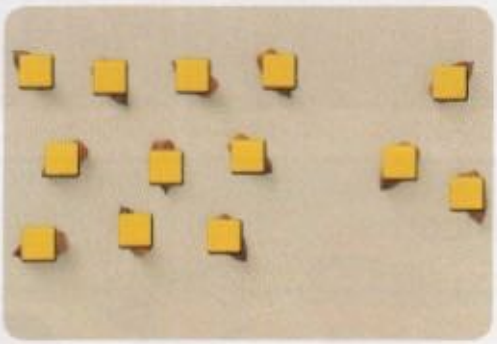
① Acorns Masashi collected



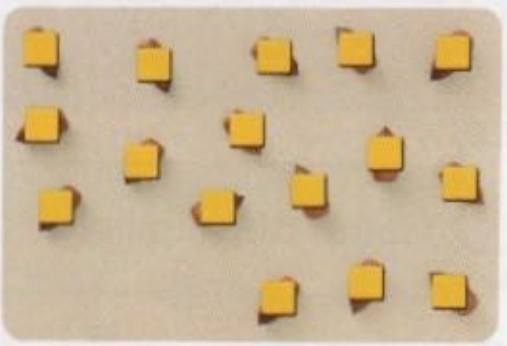
② Acorns Miki collected

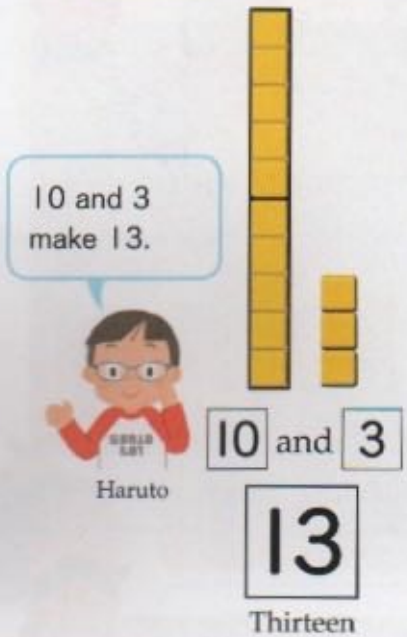
Construcciones con 10

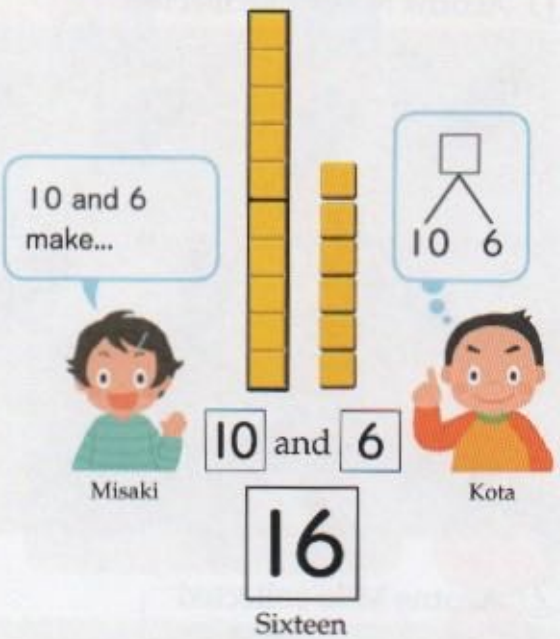
① Acorns Masashi collected

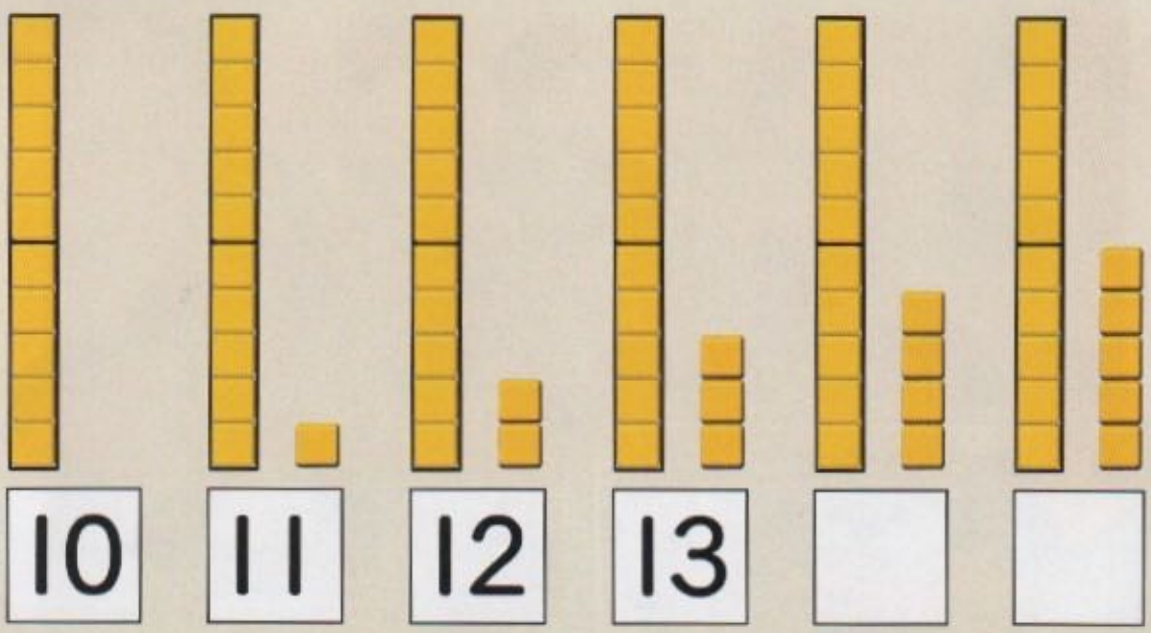


② Acorns Miki collected



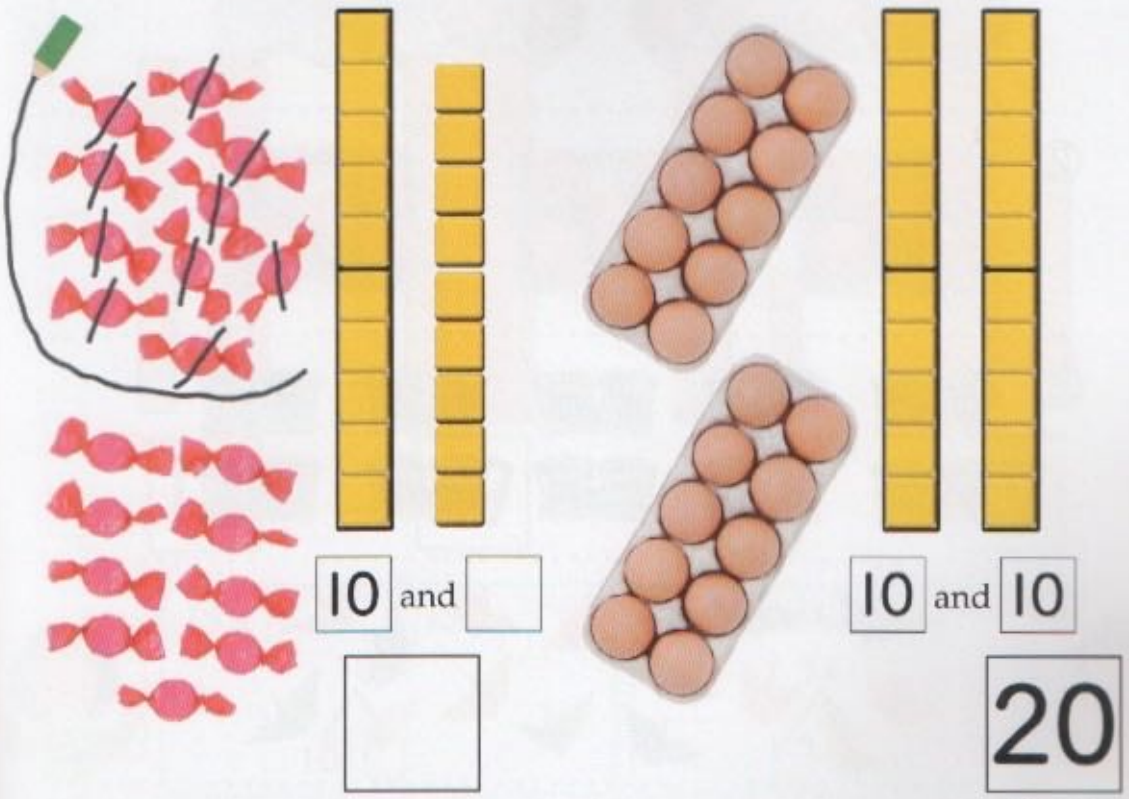


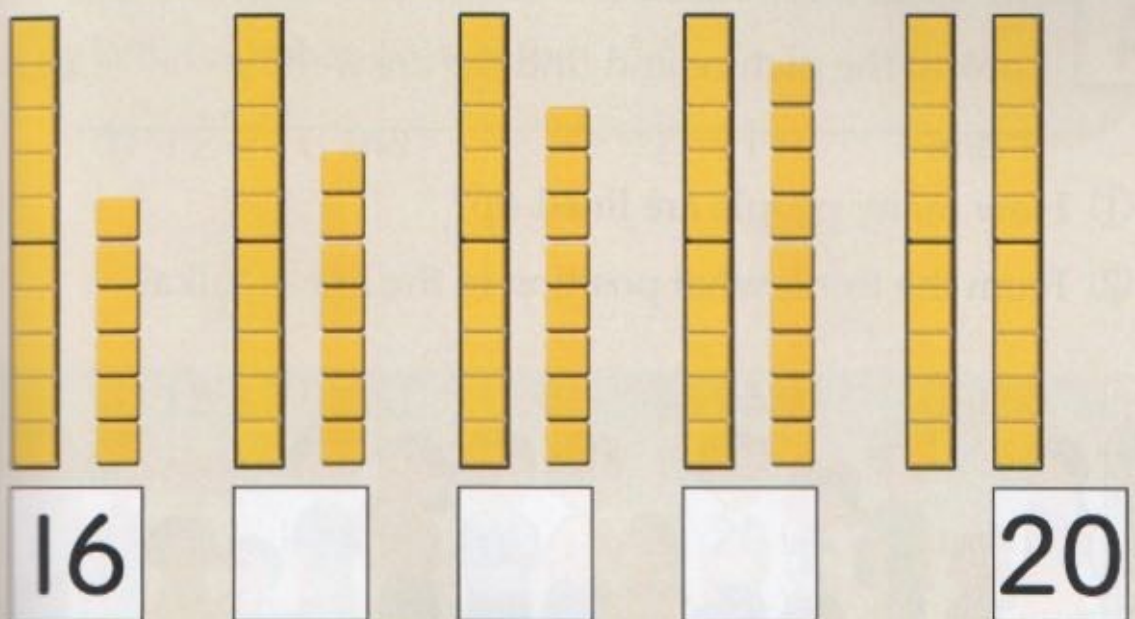




Números hasta el 20 organizados como dieces y cincos

2 Count the numbers.





Unos organizados en dieces, otros en cincos otros sin organización

3 Count the numbers.

① 

② 

③ 

④ 

4 Look at the picture and find the answers.

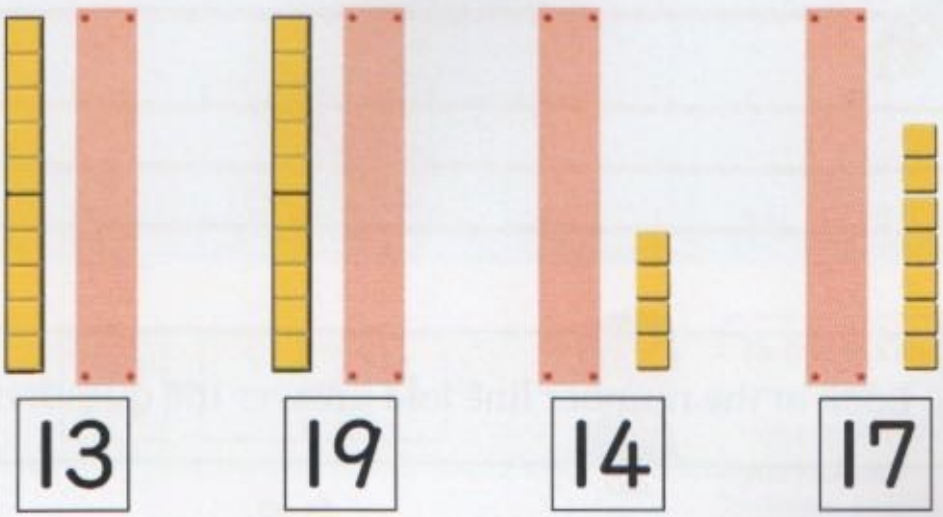
① How many people are lined up?

② From the front, what position in the line is Yuka?

Colecciones ocultas, diez más algo

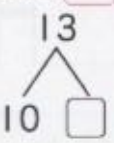
Se Puede Retomar

5 How many are hidden?

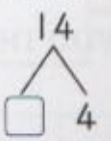



Ami

13 is 10 and ☐ so...



14 is 4 and how many?

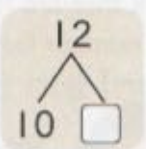



Riku

Número oculto

6 What number goes in the ☐ ?

① 12 is 10 and ☐



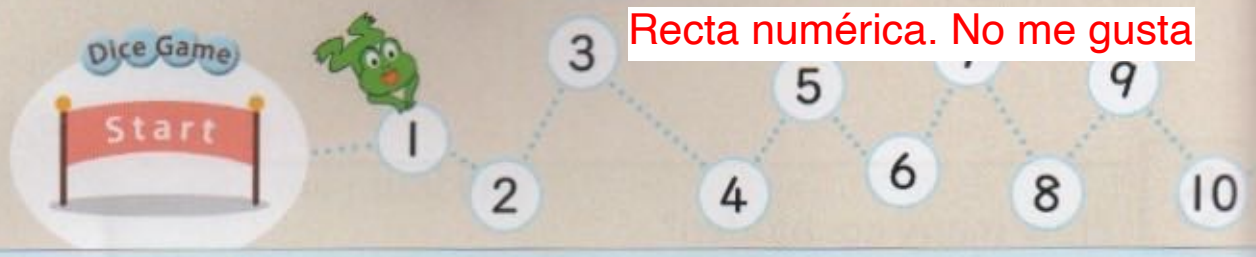
Se Puede Retomar

③ 18 is 10 and ☐

④ 16 is ☐ and 6

⑤ 15 is 10 and ☐

⑥ 20 is ☐ and 10



Recta numérica. No me gusta

Number line

0 1 2 3 4 5 6 7 8 9 10

7 Look at the number line and answer the questions.

① How far have , , and go?

② What do you notice?

por lo menos es de longitudes

What do the game board and the number line have in common? How are they different?

8 Put a ○ around the larger number.

① 11 9

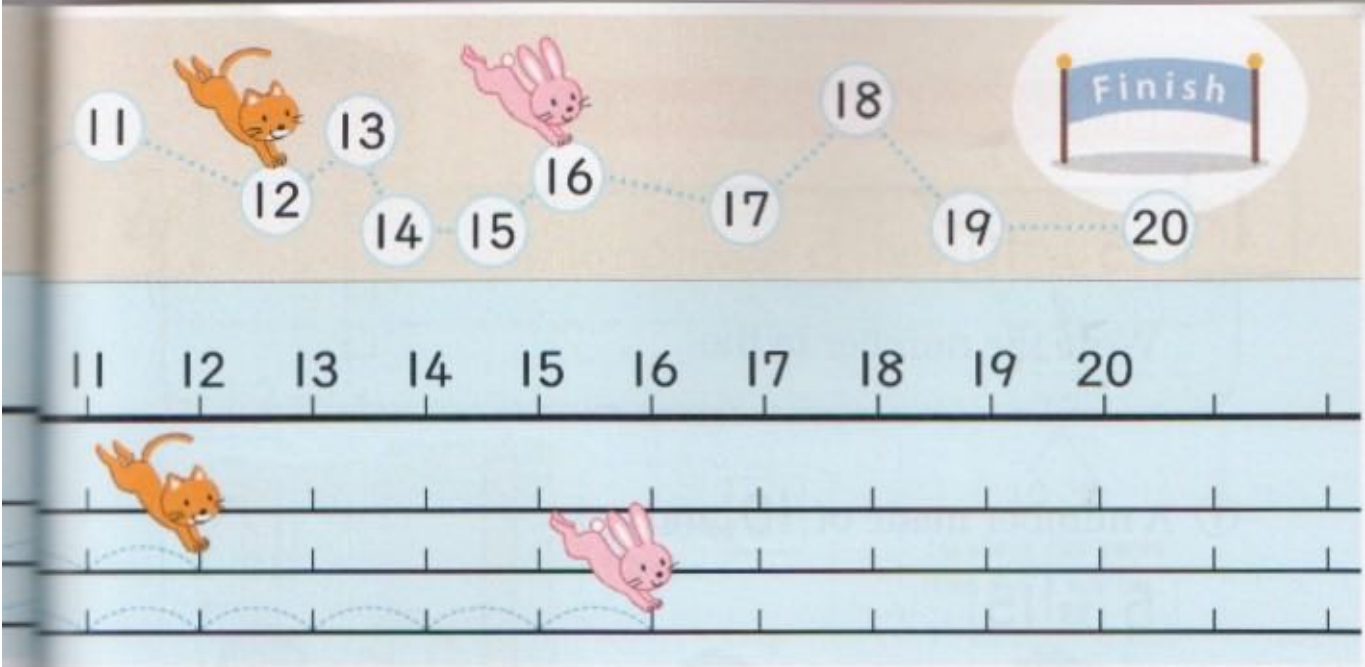
② 17 19

③ 20 12

The numbers that are further right on the number line are...

Shiho

Comparación de numerales



9 ① 12 ☐ 14


Kota

To find the answer, which part of the number line should you look at?

② 10 ☐ 14 16 ☐ 20

10 Can you find the number?

① the number that is 2 more than 13

② the number that is 4 less than 17

In which direction do we go?


Ami

11 Count out loud.

①  0, 2, 4, 6, ……, 20

②  20, 19, 18, ……, 0

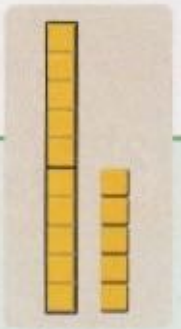
Try to count while looking at the number line.

Números con 10 como base aditiva

Numbers and Math Sentences

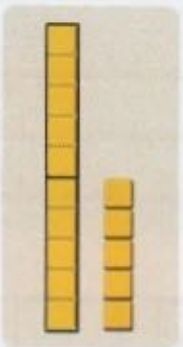
1 15 is 10 and 5.

Write the number in the □.



① A number made of 10 and 5 is 15.

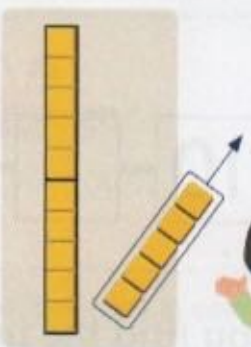
Math Sentence ▸ 10 + □ = □



Haruto

② 5 subtracted from 15 is □.

Math Sentence ▸ 15 − □ = □



Ami

2 ① 8 added to 10 is □.

Math Sentence ▸ 10 + 8 = □

② 8 subtracted from 18 is □.

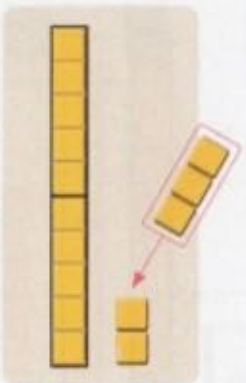
Math Sentence ▸ 18 − 8 = □

3 ① 10 + 7 ② 10 + 4 ③ 17 − 7 ④ 19 − 9

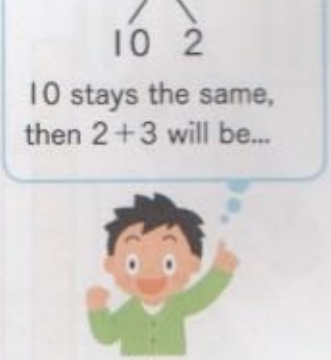
Sumas y restas sin transformación

4 Think about how to calculate.

① 12+3



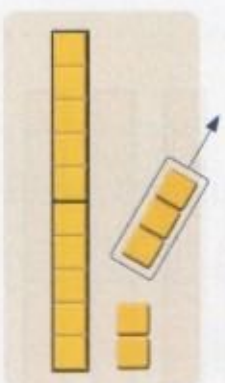
Misaki

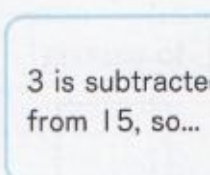


Riku

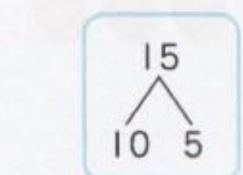
Math Sentence ▸ 12+3= ☐

② 15−3





Kota



Shiho

Math Sentence ▸ 15−3= ☐

5

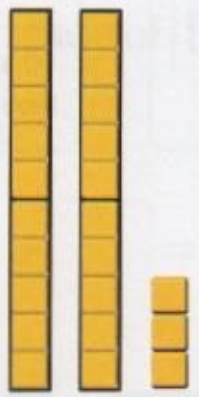
① 12+4　② 14+3　③ 13+5

④ 17−5　⑤ 19−3　⑥ 18−6

Diez como base multiplicativa

Numbers Greater Than 20

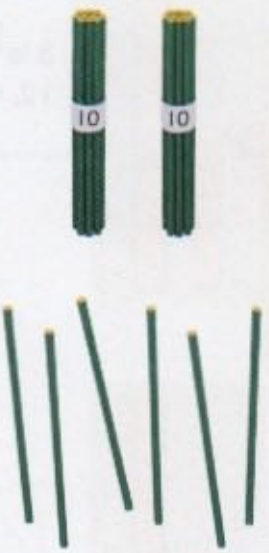
1 Count the numbers.



20 and 3

23

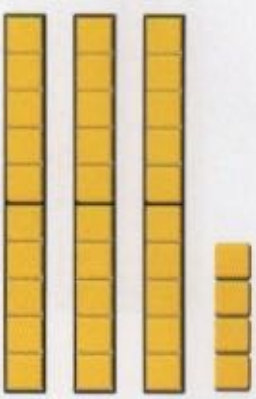
Twenty-three



20 and 6

3 groups of 10

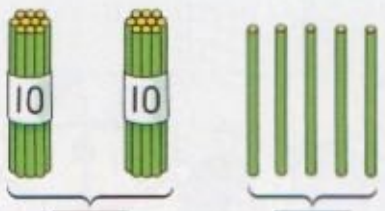
Thirty



30 and 4

2 Count the numbers.

①



□ and □

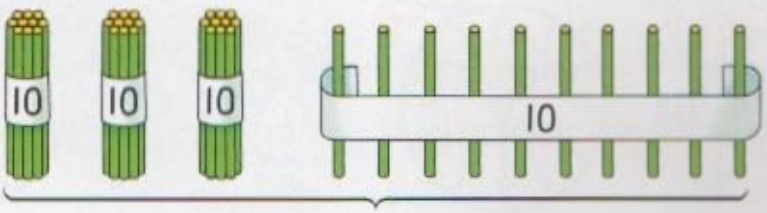
□

②

□ and □

□

③



□ groups of 10

□

3 Read the numbers in the calendar.

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Medios en el contexto del tiempo

8 Time—hour and half-hour

What are they doing?

How to Tell Time (o'clock/thirty)

B (Practice)

The short hand tells the hour.

is 6.

The is between the 6 and 7.

is .

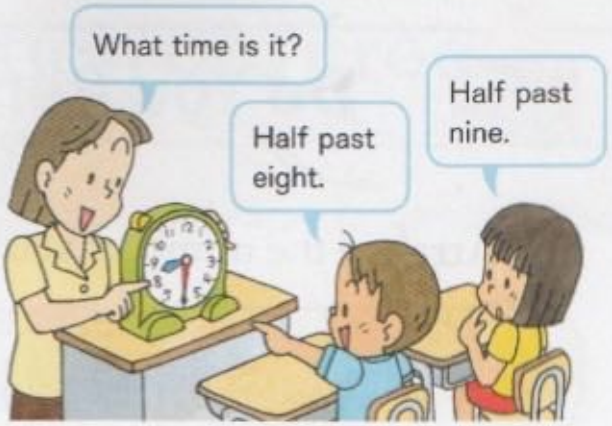
The is between and .

Six o'clock

Half past six

You use the smaller number, 6.

1 Practice telling time.



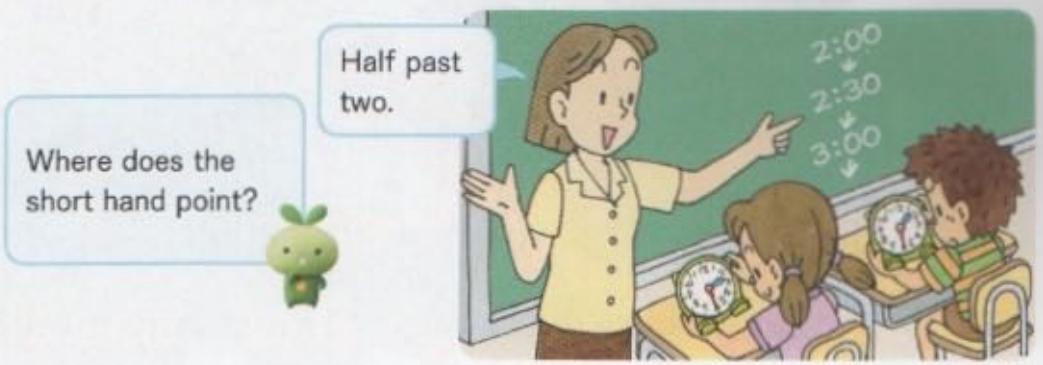
2 Practice telling time.

① 

② 

③ 

3 Show the time by using both clock hands.



4 Which clock shows half past nine?

ⓐ 

ⓑ 

ⓒ 

Move the hands and check the answer.

Repaso

Do You Remember?

1 Arrange the numbers starting with the smallest.

9	15	2	20

The smallest number is 2.

2			

Warm-up

2 Look at the picture below and answer the questions.

① How many dogs are there altogether?

② Are there more  or  ? How many more?

Warm-up

3 ① 5+2 ② 1+3 ③ 7+2

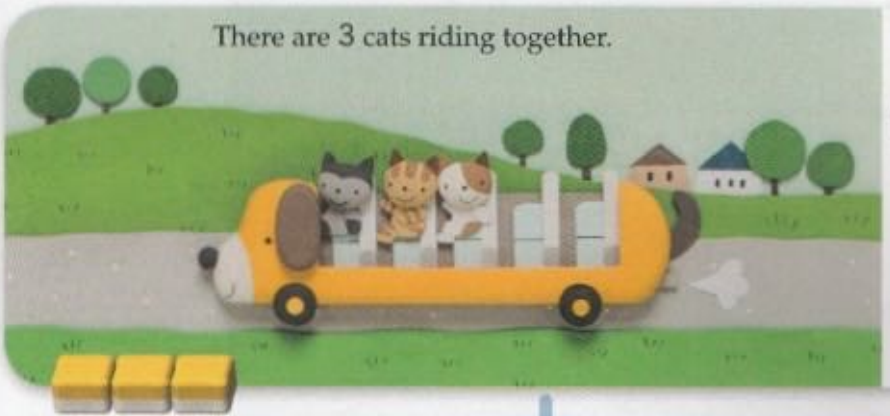
④ 9+1 ⑤ 10+4 ⑥ 4−3

⑦ 6−1 ⑧ 10−2 ⑨ 17−7

9 Calculation of Three Numbers

Sumas con tres números

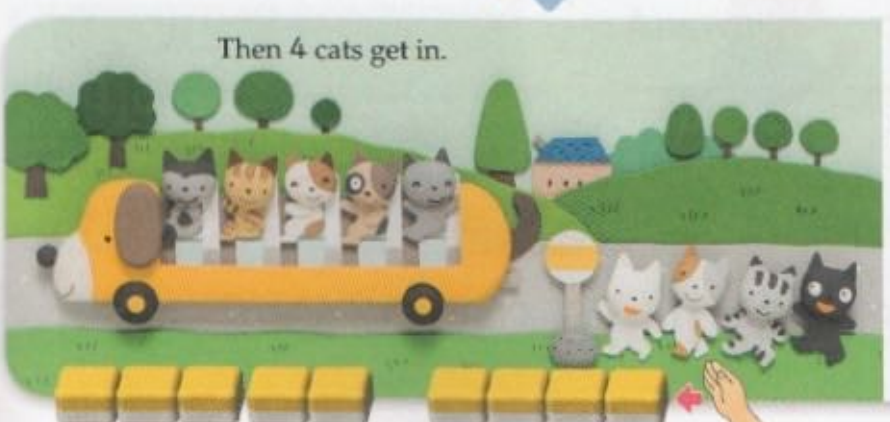
1 How many cats are there altogether?



Ami

3

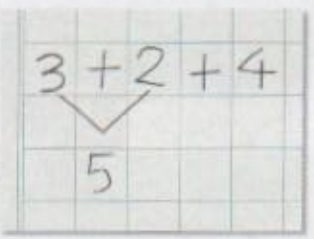
3 + 2 = 5



3 + 2 = 5
5 + 4

Addition of 3 numbers can be written as one math sentence.

$$3+2+4=\square$$



If you show the whole story as one math sentence, it's clear that there were 3 cats at first, then 2 cats got in, then 4 more cats got in.

Answer $\square$ cats

Haruto

This looks strange.

$3 + 2 = 5 + 4 = 9$

2 ① $2+4+1$ 

② $9+1+3$ ③ $4+6+2$

3 How many cats are left riding in the car?

There are 9 cats riding together.

9

1 cat gets out.

9 − 1

Then 3 cats get out.

9 − 1

9 − 1 − 3 = ☐ Answer ☐ cats

Subtraction with 3 numbers can also be written as one math sentence.

4 ① 9 − 3 − 4 ② 12 − 2 − 1 ③ 13 − 3 − 7

5 How many cats are left riding in the car?

Write the story as one math sentence.

It looks like you can use blocks to show the math story.

There are 5 cats riding together.

5

3 cats get out.

5 − 3

Then 4 cats get in.

5 − 3

Math Sentence _____

Answer ☐ cats

6 ① 6−2+4 ② 10−9+3 ③ 10−3+2

7 ① 5+3−1 ② 6+4−5 ③ 2+8−3

8 ① 2+2+2+2 ② 9−3−3−3

Medición, volúmen

10 Which One Has More?

Pour bottles of juice into glasses.

Kai

Does the amount of juice increase or decrease?

The slim glass looks like it has more juice, but...

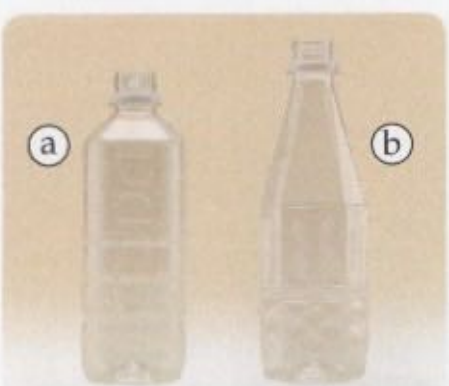
The juice was in bottles of the same size, so...

Kota

Minami

1 Which bottle holds more water, ⓐ or ⓑ?

Think about how to compare them.



It looks like ⓐ holds more water.

Riku

ⓑ is taller, so it holds...

Misaki

2

Which bottle has the most water?

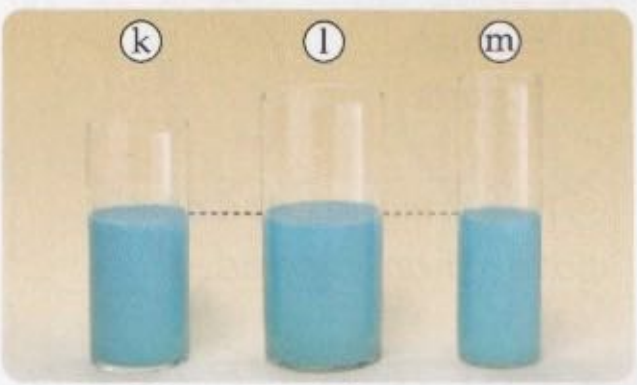
Think about how to compare them.

When we pour the water from each bottle into the same kind of container, we can compare the amounts of water.

Shiho

3 List the containers in the order of the amount of water it has, from the most to the least.

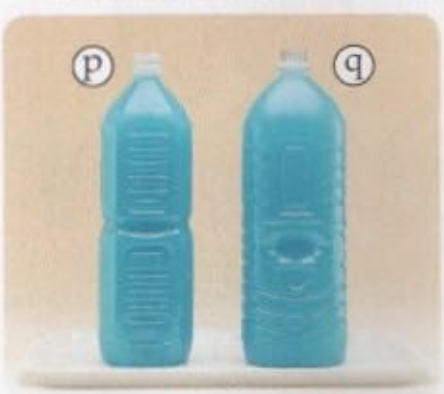
The water levels are the same.



4 Which bottle has more water, Ⓟ or ⓠ?

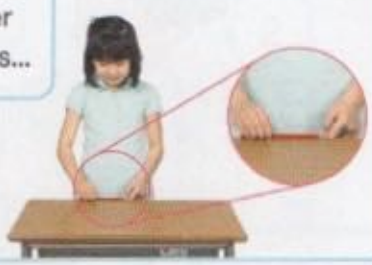
How much more?

Think about how to compare them.



To compare the amounts of water by using numbers...

Haruto



Ⓟ

Ⓠ

Ⓟ has 5 cups of water.
Ⓠ has...

Kota

He is comparing the bottles by using of the same size.

Ⓟ 5 cups
Ⓠ 7 cups

Ⓠ has 2 more cups of water than Ⓟ does.

If you show an amount of water by the number of  it fills, you can compare amounts of water by using numbers.

Ami

5 List the containers in the order of the amount of water it holds, from the most to the least.

Se Puede Retomar

ⓐ

ⓑ

ⓒ

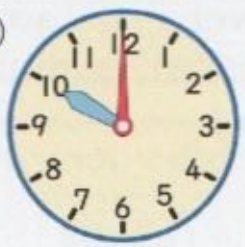
Do You Remember?

1 Put a ○ around the larger number.

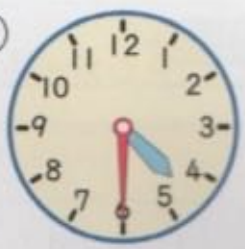
① 10 8 ② 13 10

③ 14 17 ④ 19 20

2 What time is it?

① 

② 

③ 

Warm-up

3 ① 4+5 ② 6+4 ③ 10+5

④ 10+7 ⑤ 13+2 ⑥ 12+6

⑦ 9+1+3 ⑧ 7+3+1

How many more do we need to make

Se Puede Retomar

How many acorns did they collect altogether?

They collected acorns.

Math Sentence _____ Answer ____ acorns

Math Sentence _____ Answer ____ acorns

Math Sentence _____ Answer ____ acorns

11 Addition

1 Kotomi collected 9 acorns and Keito collected 4.

How many did they collect altogether?

Math Sentence


Riku

1, ..., 9, 10, 11, 12, 13.
I can tell how many if we count the acorns, but...

The answer is over 10.

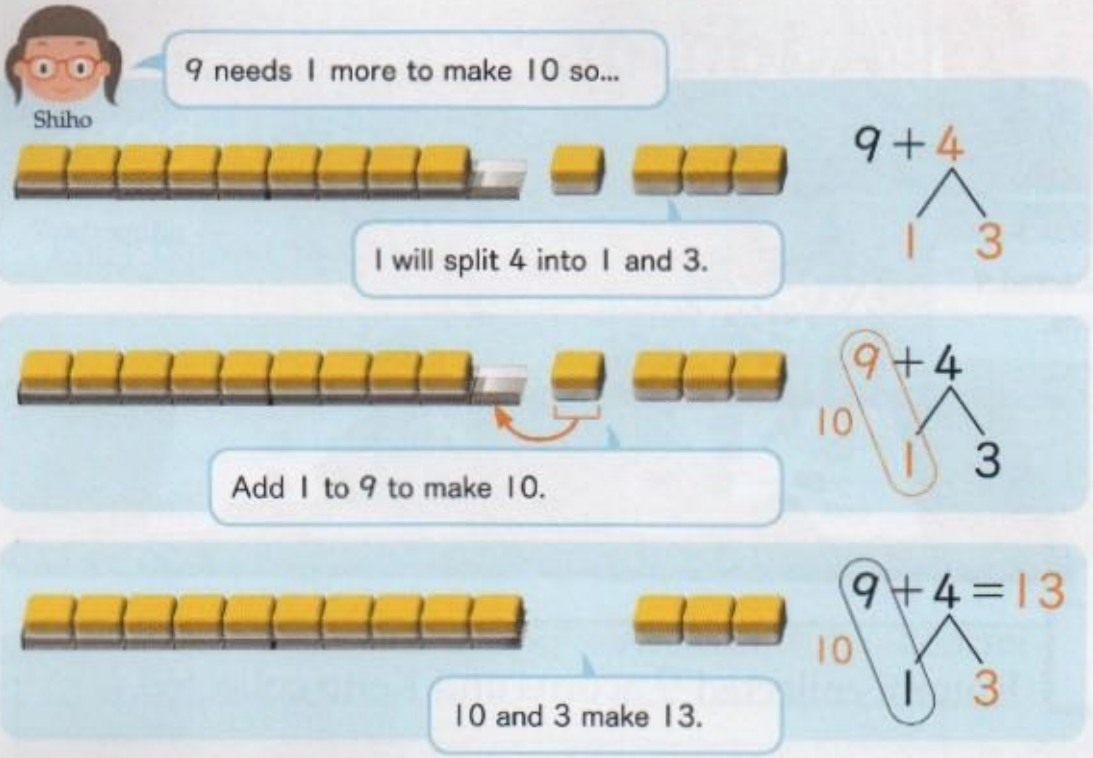

Ami

Think about how to calculate $9+4$.


Kota

To change the number combination into 10 and some more...

Sumar completando 10



$9+4=13$

Answer 13 acorns

How to calculate $9+4$

1. 9 needs 1 more to make 10.
2. Split 4 into 1 and 3.
3. Add 1 to 9 to make 10.
4. 10 and 3 makes 13.

$$9+4=13$$

$$1 \quad 3$$

4 is split to change $9+4$ into 10 and some more.

2 Explain how to calculate $9+3$.

Algoritmo de completar 10

3 Think about how to calculate $8+3$.

To change the number combination into 10 and some more...

Misaki

Haruto

8 needs ☐ more to make 10 so...

$8+3$

$2 \quad 1$

Split 3 into 2 and 1.

$8+3$

$10 \quad 2 \quad 1$

Add 2 to 8 to make 10.

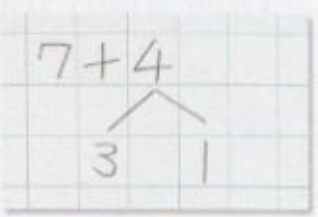
$8+3=11$

$10 \quad 2 \quad 1$

10 and 1 make 11.

4 Explain how to calculate $7+4$.

7 needs 3 more to make 10 so...



When calculating $8+3$ or $7+4$, we should split the second number to change the number combination into 10 and some more.

Esto es como el primer algoritmo

5 Calculate the following.

① $9+5$ ② $8+4$ ③ $7+6$

④ $8+7$ ⑤ $7+5$ ⑥ $9+8$

⑦ $6+5$ ⑧ $8+8$ ⑨ $9+7$

6 There are 9 mother penguins.

There are 6 baby penguins.

How many penguins are there altogether?

7 I had 8 minnows.

I got 6 more.

How many minnows are there altogether?

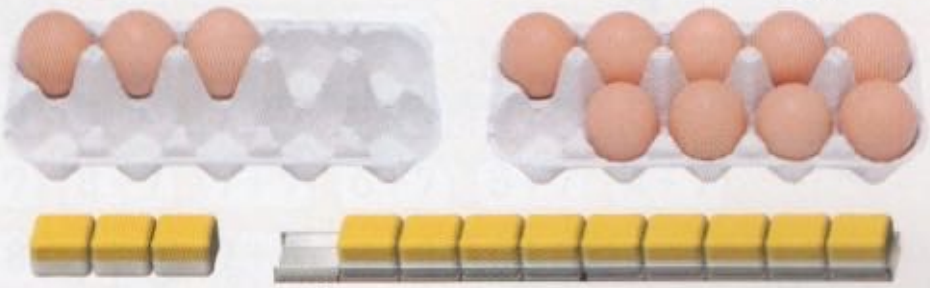
Se insiste en completar 10

8

How many eggs are there altogether?

Think about how to calculate this.

Shiho: Which one should we try to make 10 with?



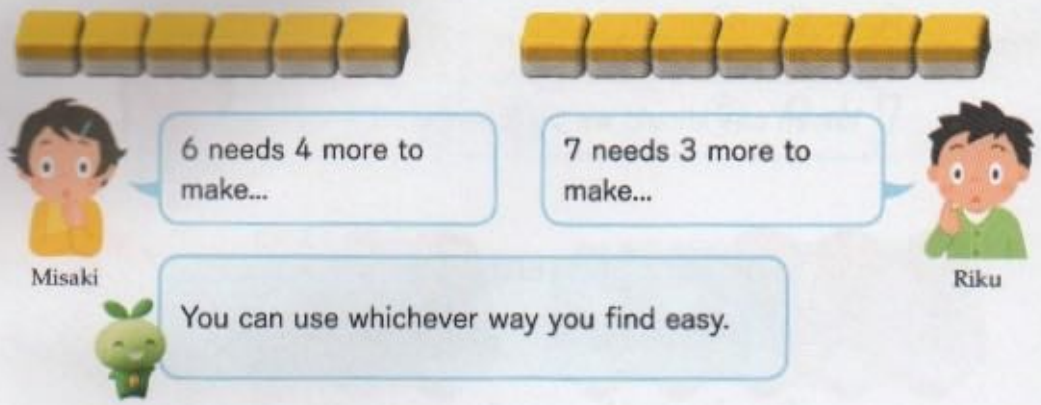
Haruto: 3 needs 7 more to make 10 so...

Ami: 9 is closer to 10, so...

Kota: Both methods lead to 10 and 2.

We should split one of the numbers to change the number combination into 10 and some more.

9 Explain how to calculate 6+7.



10 ① 2+9 ② 5+6 ③ 8+5
④ 7+7 ⑤ 5+9 ⑥ 3+8
⑦ 4+7 ⑧ 6+8 ⑨ 8+9

11 There are 5 red flowers.
There are 8 white flowers.
How many flowers are there altogether?

Tabla aditiva del nueve

Using Flash Cards

(Practice)

Arrange the flash cards.

Front	Back
9+2	11

9+2

9+3 8+3

9+4 8+4 7+4

9+5 8+5 7+5 6+5

9+6 8+6 7+6 6+6 5+6

9+7 8+7 7+7 6+7 5+7 4+7

9+8 8+8 7+8 6+8 5+8 4+8 3+8

9+9 8+9 7+9 6+9 5+9 4+9 3+9 2+9

Do you have all the flash cards?

Alone

Practice addition.

13

You can write down numbers in the notebook instead.

7 + 6
3 3

In pairs

Give problems to each other.

12

In pairs

Play a number comparison game.

14

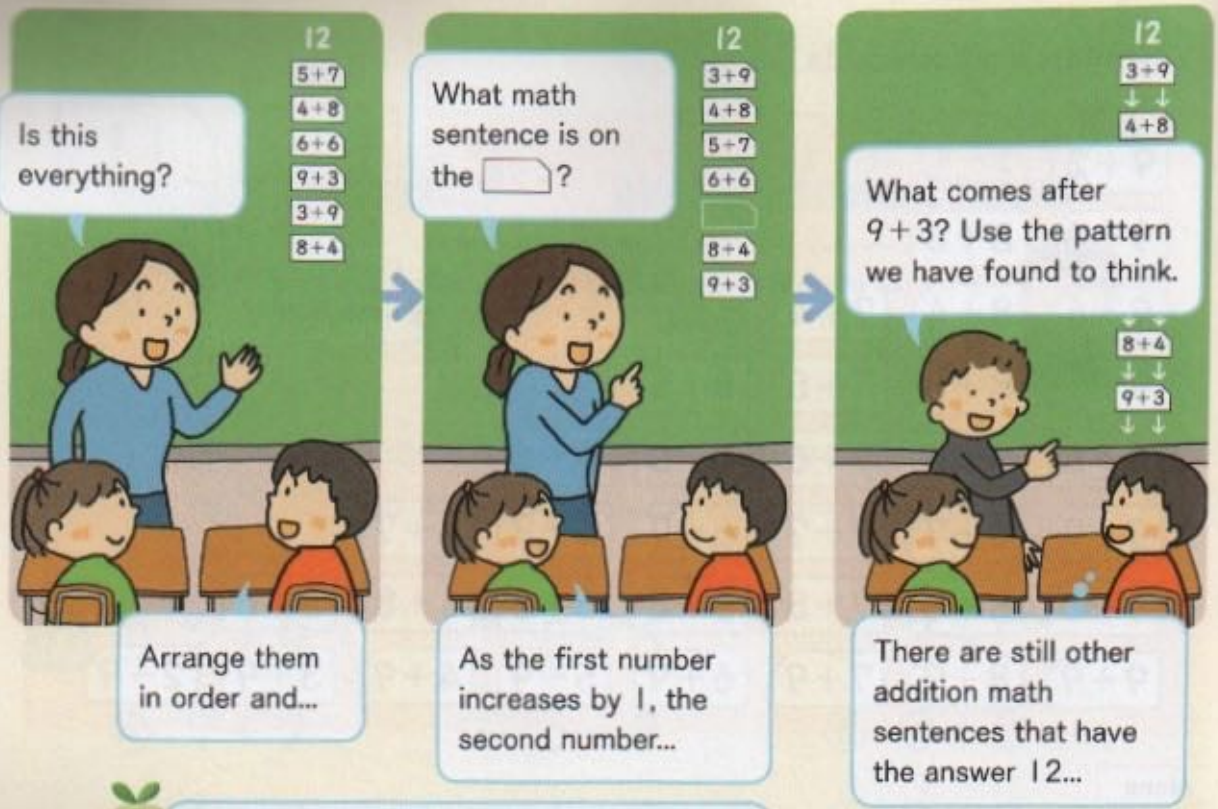
13

I won!

Flashcards de un dígito, todas las combinaciones

Whole class

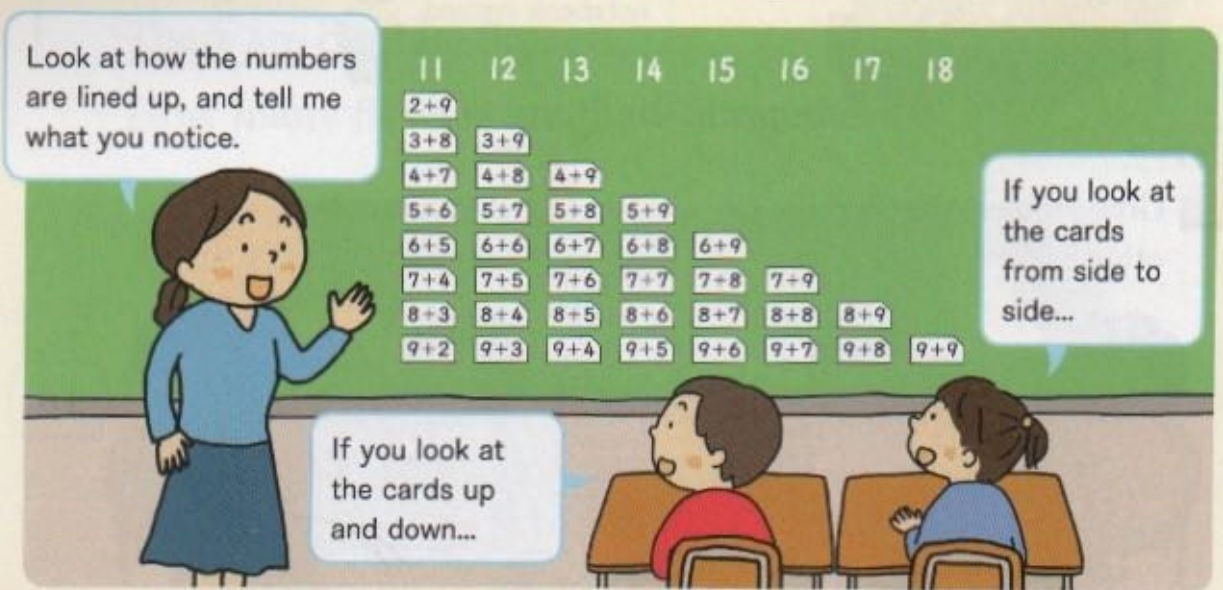
Collect the flash cards that have the answer 12.



If you arrange flash cards in order, you can find a pattern.

Whole class

Collect the flash cards that have the same answer.



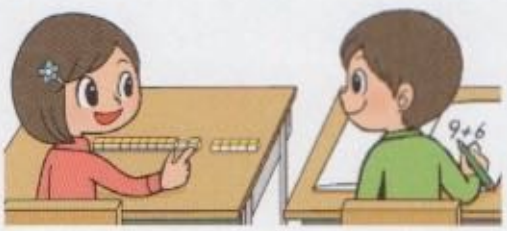
Repaso

Check Your Understanding

1 Explain how to calculate $9+6$.

Explain while moving the blocks and writing a math sentence.

9 needs ☐ more to make 10.
Split 6 into ☐ and ☐.
To 9...



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

3 Write 5 addition math sentences with an answer of 13.

☐ + ☐ = 13

Then, write math sentences with an answer of 11 and with an answer of 14.

Keep a Math Notebook

October 12

Kotomi collected 9 acorns and Keito collected 4. How many did they collect altogether?

〈Math Sentence〉 9 + 4

〈How to Calculate〉

Riku

<Math Sentence> 9+4

<How to calculate>

○○○○○○○○○○←○○○○

10 3

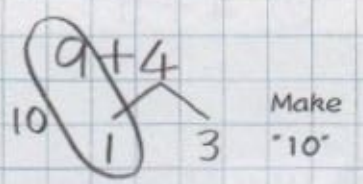
9 + 4 = 13

Answer 13 pieces

Ami

<Math Sentence> 9+4

<How to calculate>



9+4=13

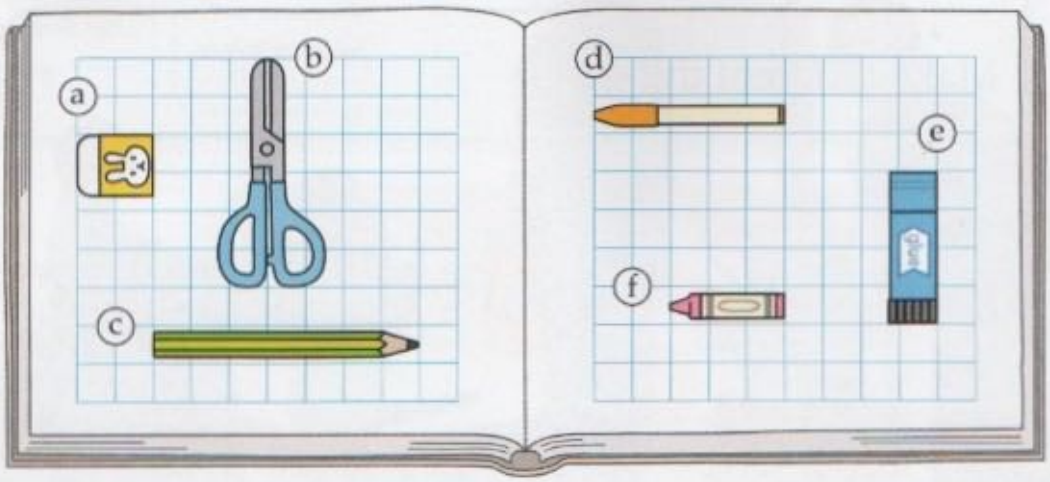
Answer 13 pieces

We can easily understand how Riku and Ami calculated, can't we?

Repaso

Do You Remember?

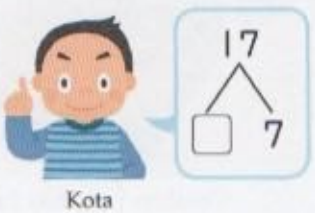
1 Put them in order from longest to shortest.



2 Write the number in the ☐.

① 17 is ☐ and 7

② 10 and 6 make ☐



Kota

3 ① 5 − 4 ② 8 − 2 ③ 10 − 1

④ 10 − 6 ⑤ 19 − 9 ⑥ 15 − 3

⑦ 10 − 9 + 2 ⑧ 10 − 8 + 4

How many more do we need to make 10?

Geometría

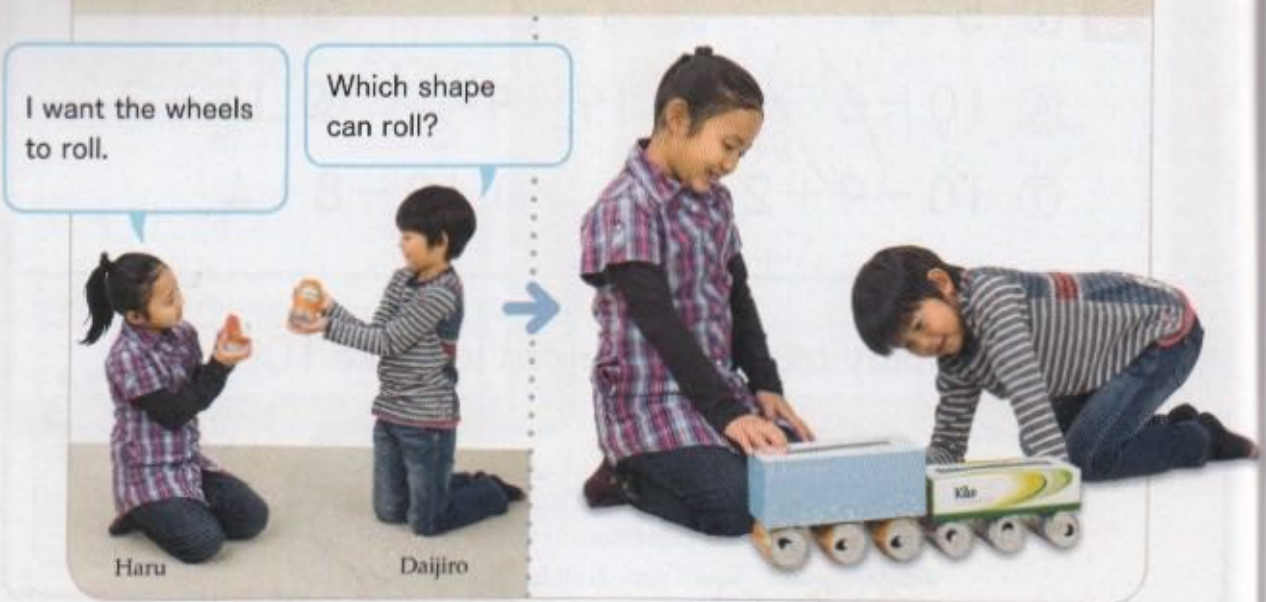
12 Playing with Shapes

1 Make different things.

Ryuki

Haru

They are going to make a train.



They are trying to make a tower.

I want to make it tall.

This one will make it taller.

Ryuki Mion

What good ideas did you use? What did you notice?

We made a giraffe. For its legs, we used ..... of the same height.

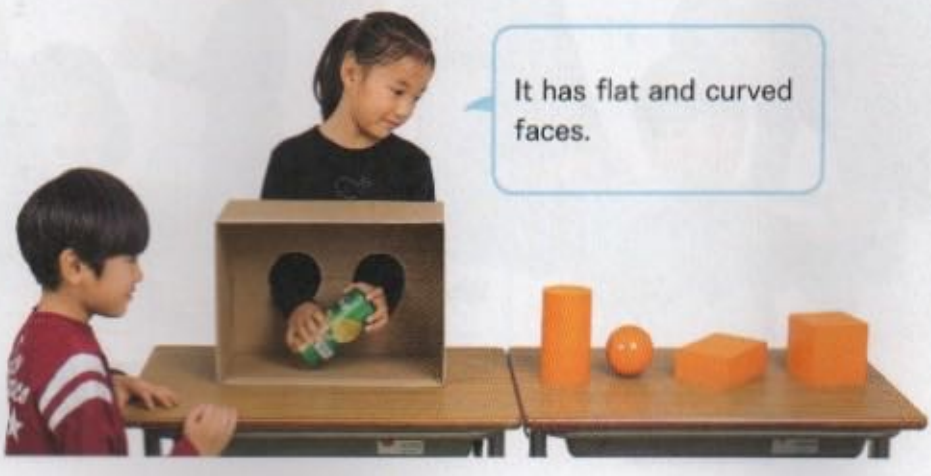
We rolled many shapes down the slide. What rolled well were...

Motoshi

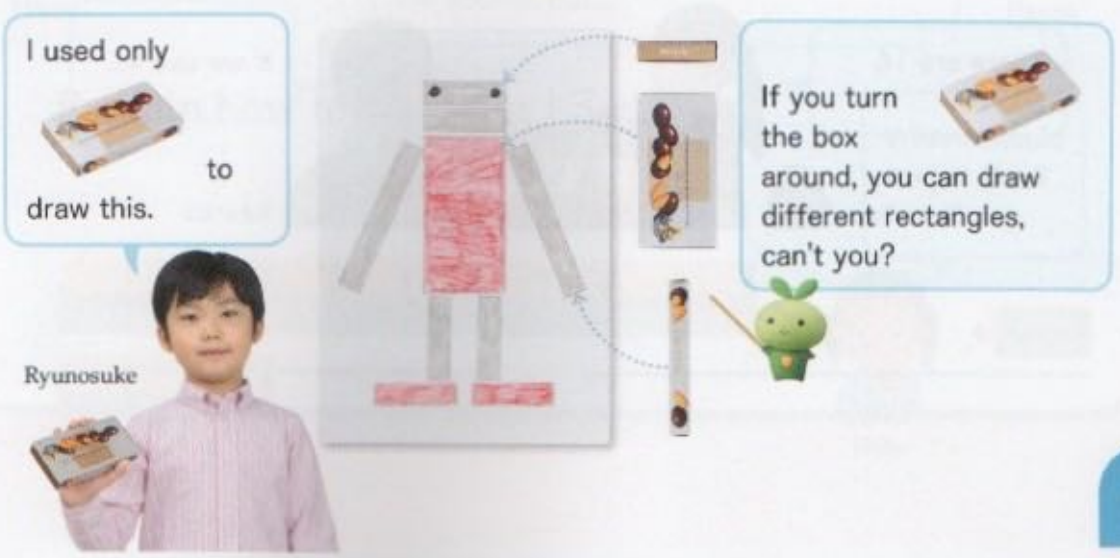
Rei

2 Make groups of shapes that are alike in some ways.

3 Guess what shape it is.



4 Trace the shape of an object and use it to draw a picture.



How many acorns are left?

They are going to use acorns to make crafts.

Math Sentence _____ Answer ☐ acorns _____

Math Sentence _____ Answer ☐ acorns _____

Math Sentence _____ Answer ☐ acorns _____

13 Subtraction

Restas con algoritmo

1 There are 13 acorns.

We used 9.

How many acorns are left?

Math Sentence

_____


Misaki

You can't take 9 from 3.

When we take 1, 2, ..., 9, we will have 1, 2, 3, 4, ... So, 4 is the answer. I can tell how many if we count the acorns, but...


Haruto

Explain how to calculate 13 − 9.

Where should we get the 9 from?


Shiho

Ami

We can't subtract 9 from 3 so...

We will split 13 into 10 and 3.

13 − 9

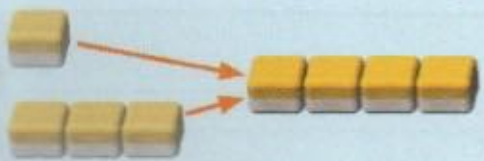
10 3

Subtract 9 from 10 and get 1.

13 − 9

10 3

1



1 and 3 make 4.

13 − 9 = 4

10 3

1

13 − 9 = 4

Answer 4 blocks

Se Puede Retomar

How to calculate 13 − 9

1. Split 13 into 10 and 3.
2. Subtract 9 from 10 and get 1.
3. 1 and 3 make 4.

13 − 9 = 4

10 3

If you can't take 9 from the extra 3, you can take it from 10 instead.

We can't subtract 9 from 2.

Subtract 9 from 10, and...

2 Explain how to calculate 12 − 9.

3 Think about how to calculate 14 − 8.

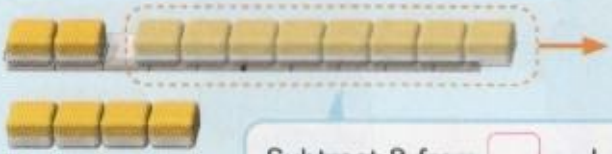
We can't subtract 8 from 4 so...

Riku

Split 14 into 10 and 4.

14 − 8

10 4



Subtract 8 from ☐ and get 2.

14 − 8

10 4

2

2 and 4 make 6.

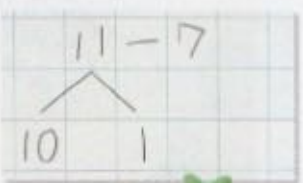
14 − 8 = 6

10 4

2

4 Explain how to calculate 11 − 7.

We can't subtract 7 from 1 so...



When you calculate 14 − 8 or 11 − 7, you can't subtract 8 from the extra 4 or subtract 7 from the extra 1. Instead, you can subtract 8 or 7 from 10.

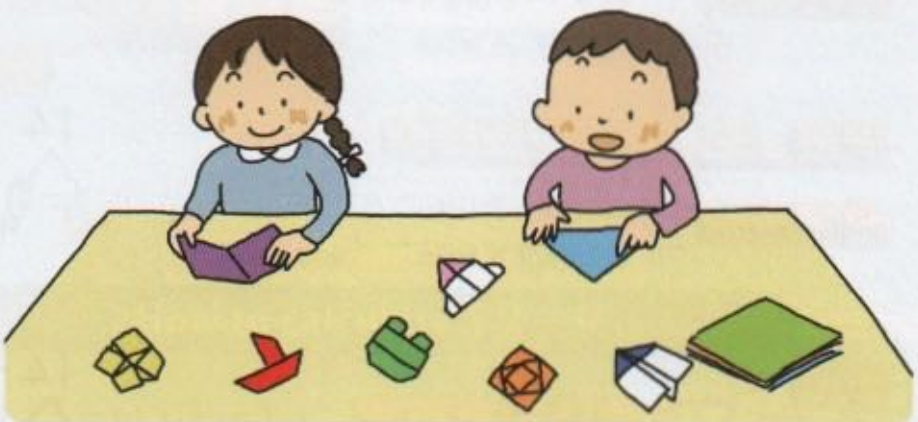
5 Calculate the following:

① 11 − 8　② 16 − 9　③ 13 − 7

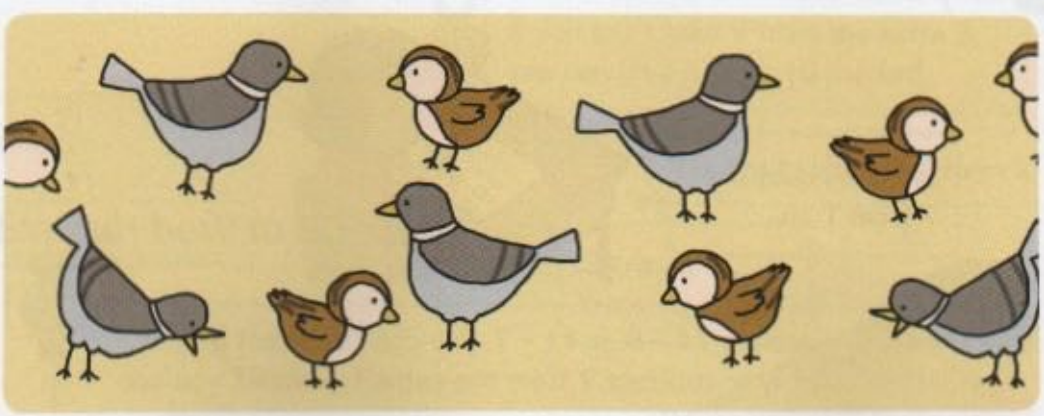
④ 11 − 5　⑤ 12 − 8　⑥ 15 − 9

⑦ 12 − 6　⑧ 11 − 9　⑨ 14 − 7

6 There are 13 pieces of colored paper.
If we use 8 pieces, how many are left?



7 There are 7 pigeons and 15 sparrows. Are there more pigeons or sparrows? How many more?

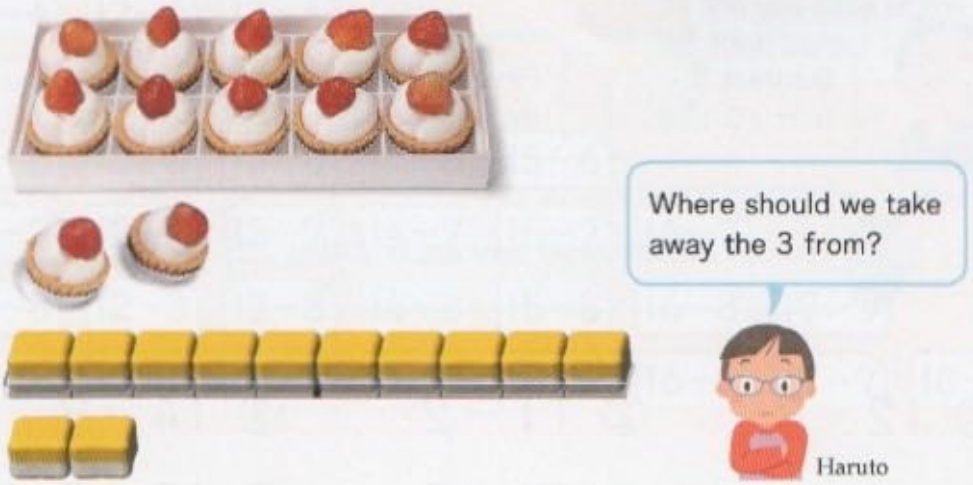


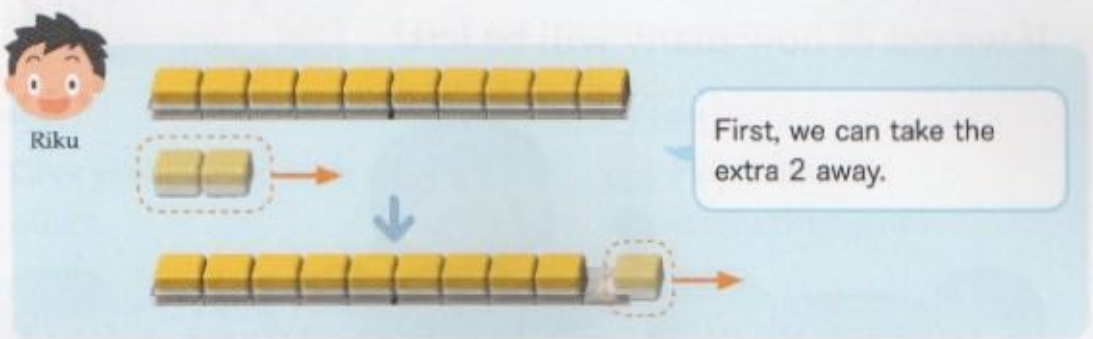
8

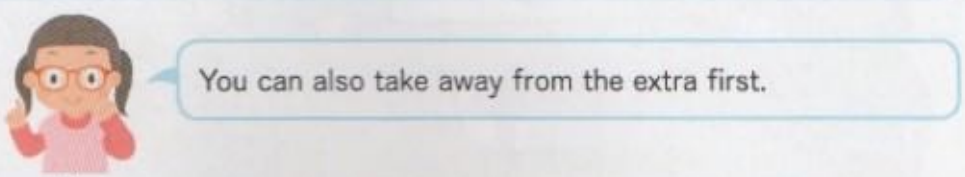
There are 12 cakes.

If we eat 3, how many will be left?

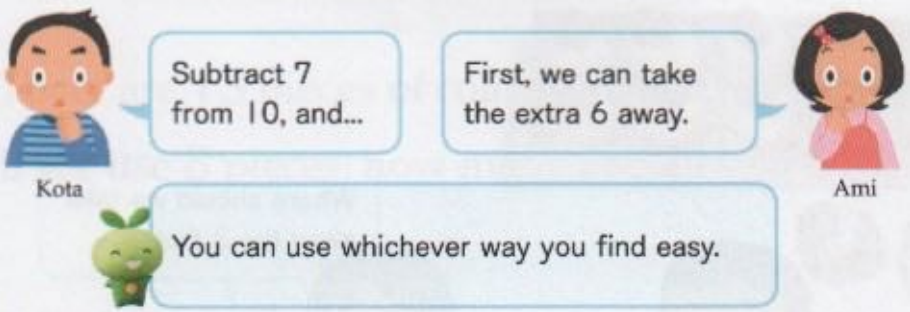
Think about how to calculate this.







9 Explain how to calculate 16 − 7.



10 ① 12 − 7 ② 11 − 2 ③ 14 − 9

④ 17 − 8 ⑤ 14 − 5 ⑥ 18 − 9

⑦ 12 − 4 ⑧ 15 − 8 ⑨ 11 − 6

11 There are 13 strawberries.
If we eat 4, how many will be left?

Se combinan operaciones con problemas

Flashcards de restas

Using Flash Cards

(Practice)

Arrange the flash cards.

Front	Back
11−2	9

11−2

11−3 12−3

11−4 12−4 13−4

11−5 12−5 13−5 14−5

11−6 12−6 13−6 14−6 15−6

11−7 12−7 13−7 14−7 15−7 16−7

11−8 12−8 13−8 14−8 15−8 16−8 17−8

11−9 12−9 13−9 14−9 15−9 16−9 17−9 18−9

Do you have all the flash cards?

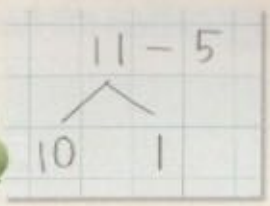
28 cartas

Alone

Practice subtraction.

6

You can write down numbers in the notebook.



In pairs

Give problems to each other.

9

In pairs

Play a number comparison game.

esta es como querritas

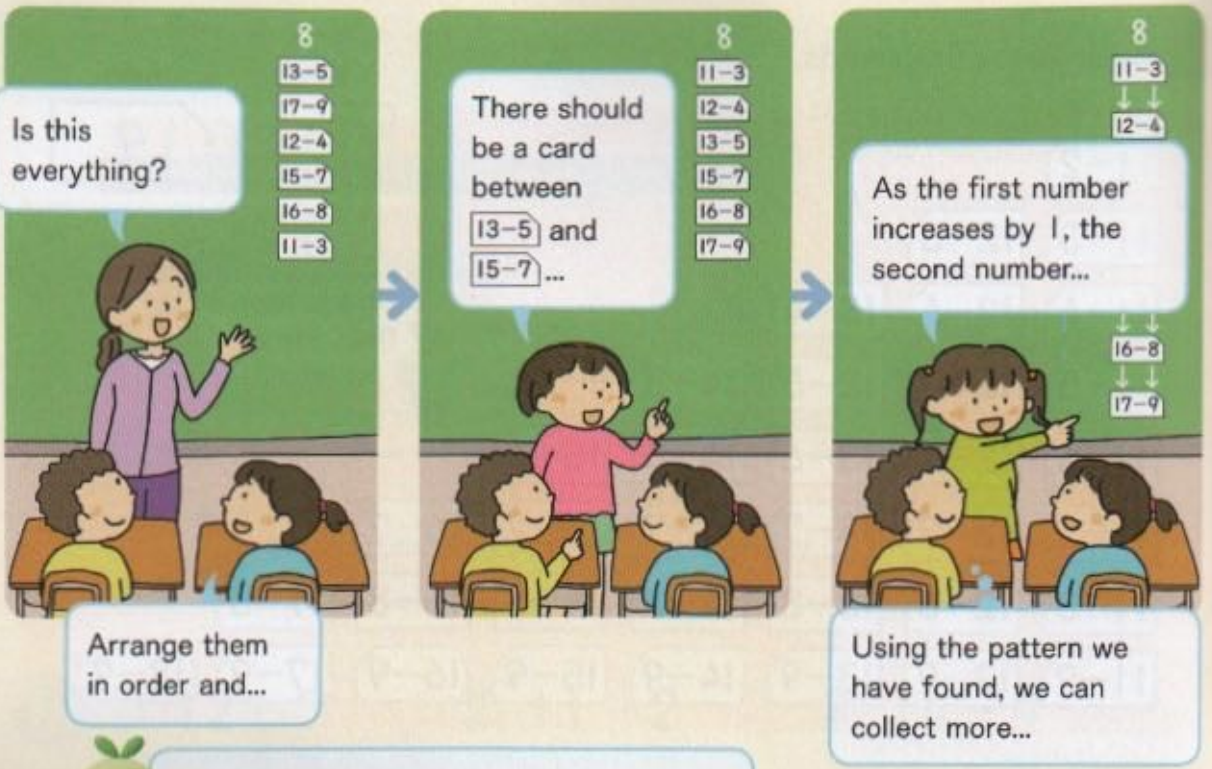
7

5

I won!

Whole class

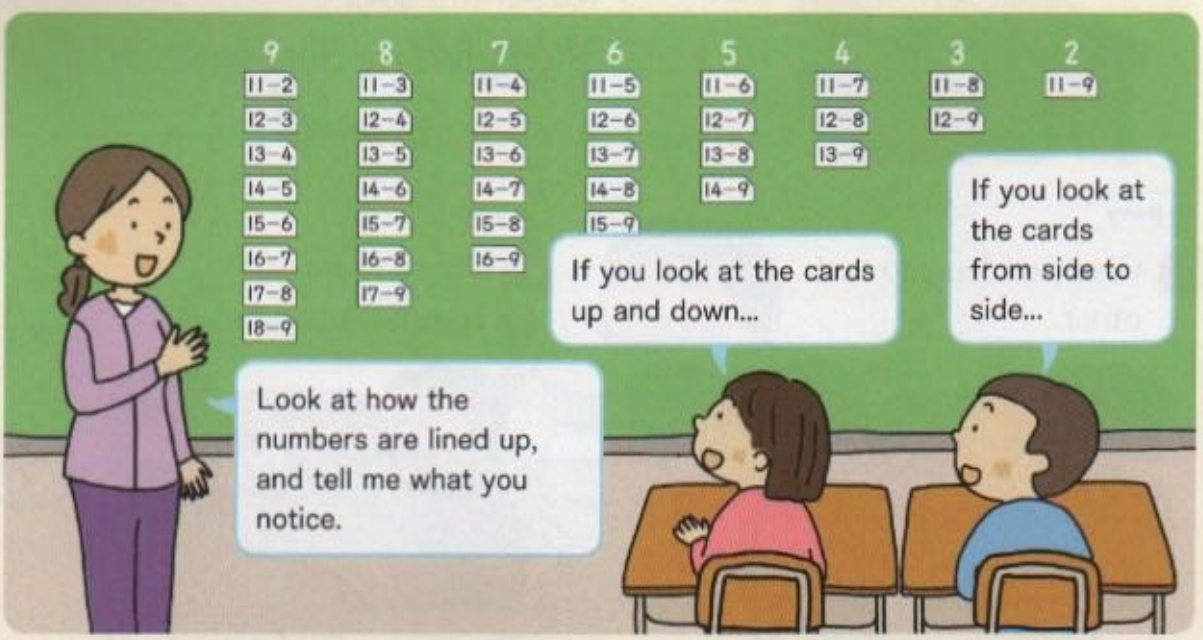
Collect the flash cards that have the answer 8.



If you arrange flash cards in order, you can find a pattern.

Whole class

Collect the flash cards that have the same answer.



Check Your Understanding

1 Explain how to calculate $16-9$.

Explain while moving the blocks and writing a math sentence.

Split 16 into ☐ and 6.
Subtract 9 from 10, and...

2 ① $13-5$ ② $17-9$ ③ $16-8$
④ $17-4$ ⑤ $11-3$ ⑥ $16-7$
⑦ $15-3$ ⑧ $14-6$ ⑨ $12-4$

3 Write a subtraction math sentence with 7 as the answer.

Select the number that fits in ☐ from ▭.

ⓐ ☐ − ⓑ ☐ = 7

Se Puede Retomar

ⓐ

10	11	12	13	14
15	16	17	18	

ⓑ

1	2	3	4	5
6	7	8	9	

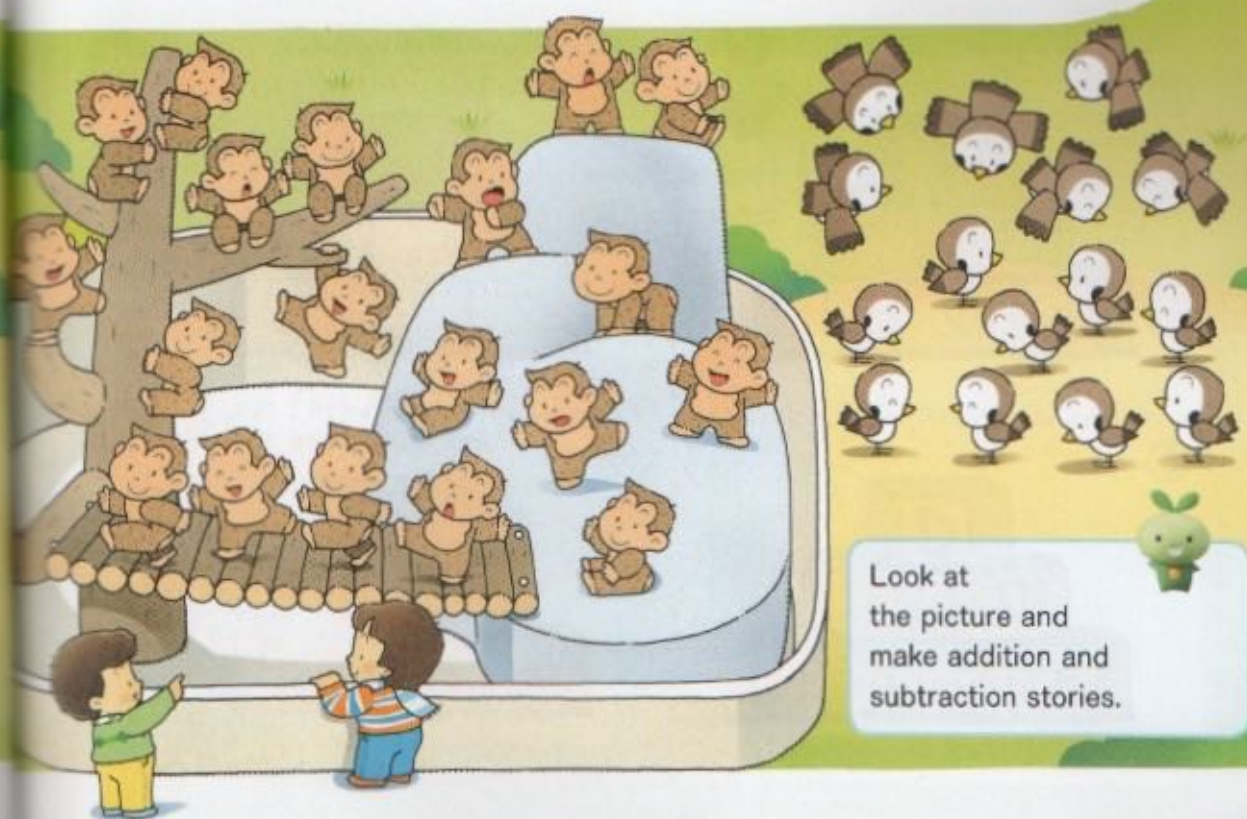
Which Calculation Should We Use?

Se enfatiza los dos tipos de resta

Se Puede Retomar

2

Are there more baby zebras or adult zebras? How many more?

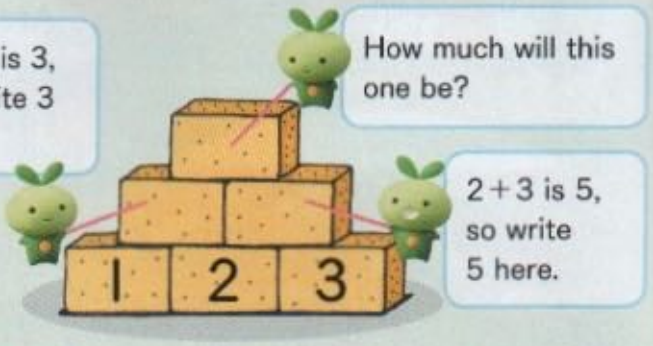


Look at the picture and make addition and subtraction stories.

Se Puede Retomar

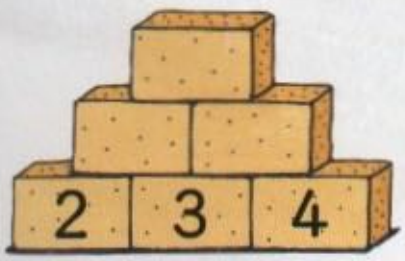
Calculation Pyramids

Add the two numbers that are next to each other.
Write the answer in the block above.



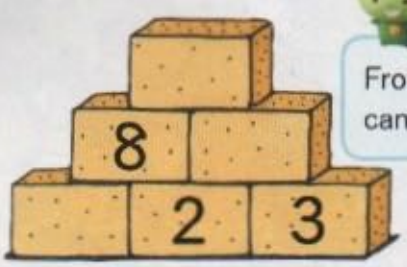
1 Fill in the blocks with numbers.

①



②

③



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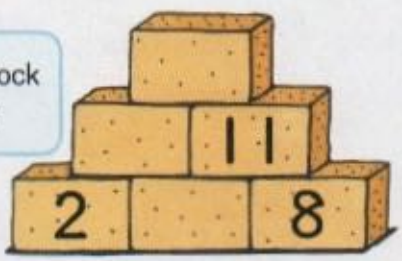
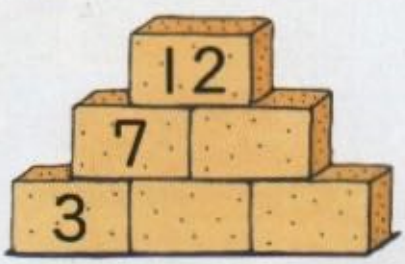
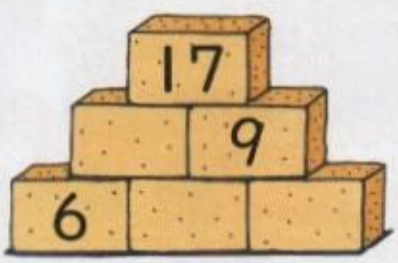


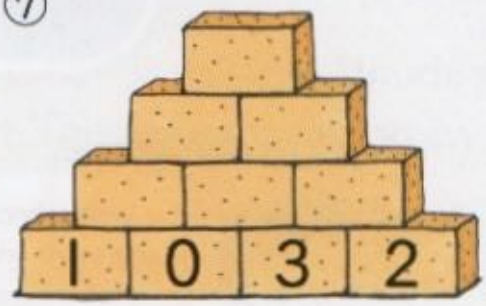
⑤



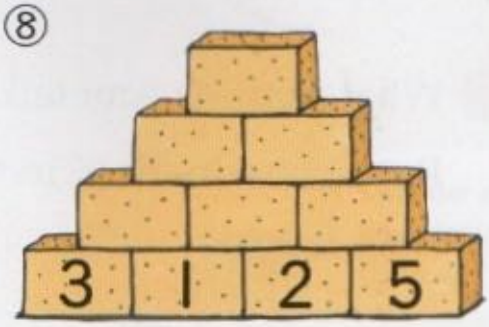
⑥



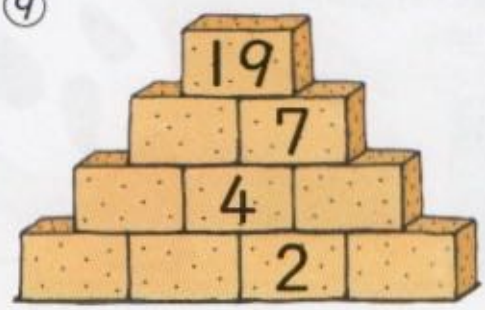
⑦



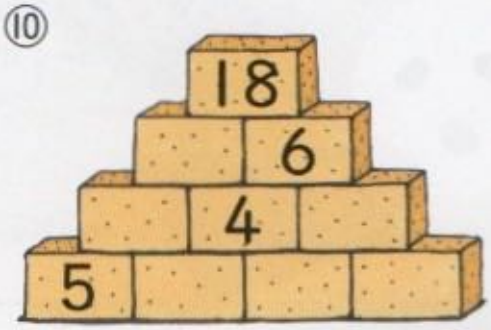
⑧



⑨



⑩



La actividad está interesante . Es muy matemática

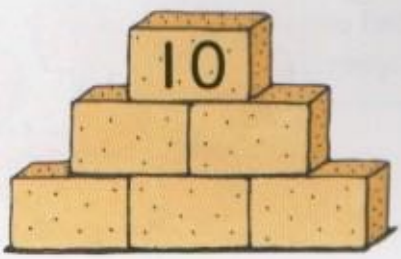
2 Fill in the 5 blocks with numbers. Once you are finished, check the answers.

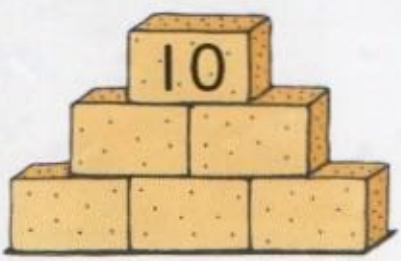
Riku

First, split 10 into 2 numbers...

Misaki

Wow! It looks like there are lots of different ways to do this.





Do You Remember?

1 What shape is Ami talking about?

Put a checkmark ✓ in the ( ) below the shape.

Ami

This shape rolls easily and you can't stack them up.

( )

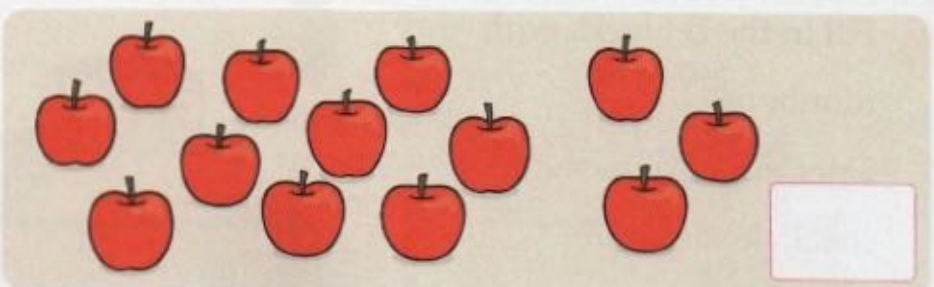
( )

( )

Warm-up

2 Count the numbers.

①



②

Números grandes en grupos de diez

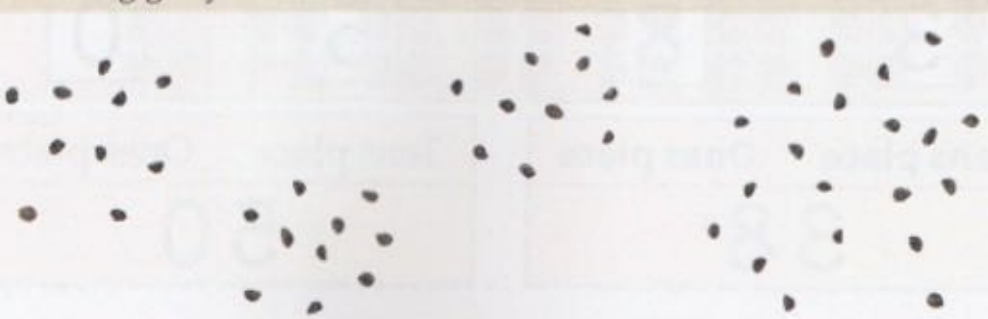
14 Large Numbers

There are many seeds.

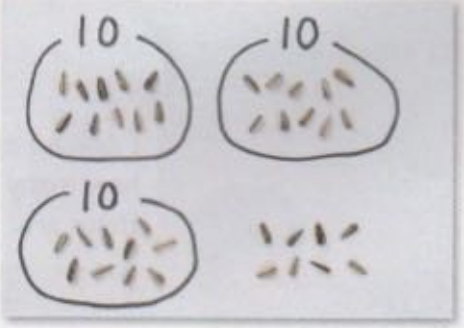
1 How many seeds are there?

Sunflower seeds

Morning glory seeds



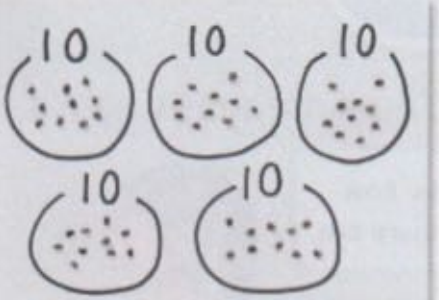
Sunflower seeds



3 groups of 10 make 30.

We say 30 and 8 make **thirty-eight**.

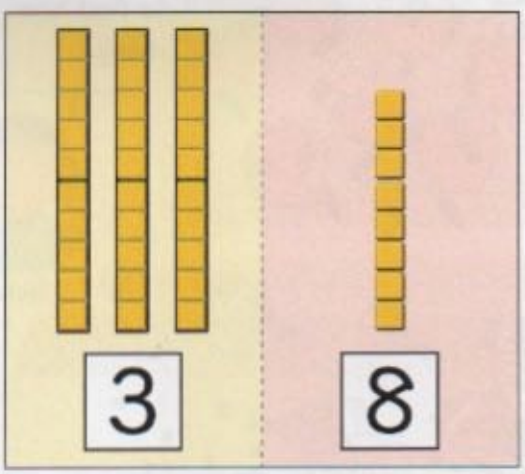
Morning glory seeds



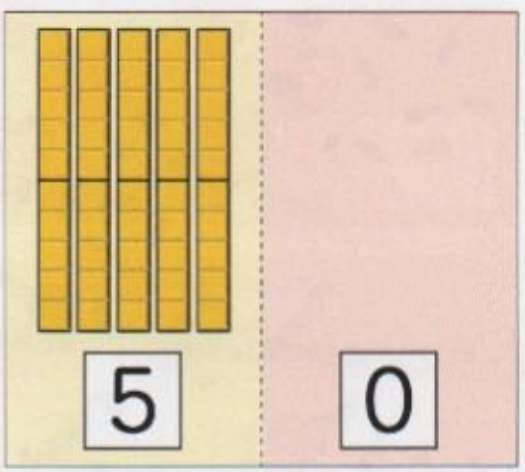
We say 5 groups of 10 make **fifty**.

Se introduce notación de decena y centena

2 Write the number of seeds using numerals.



Tens place	Ones place
3	8



Tens place	Ones place
5	0

conteos de diez en diez

3 Count the numbers.

There are ☐ groups of 10 and ☐ more. Altogether it makes...

Riku

① 

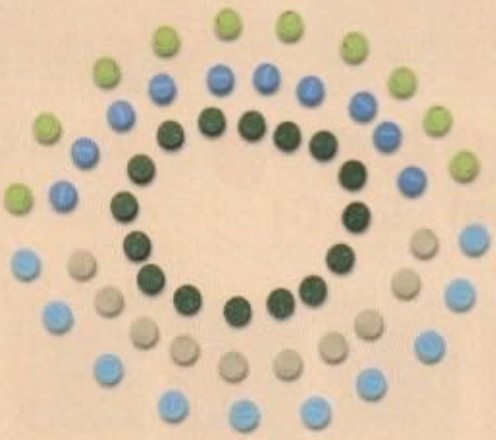
②

③

4 Count the numbers.

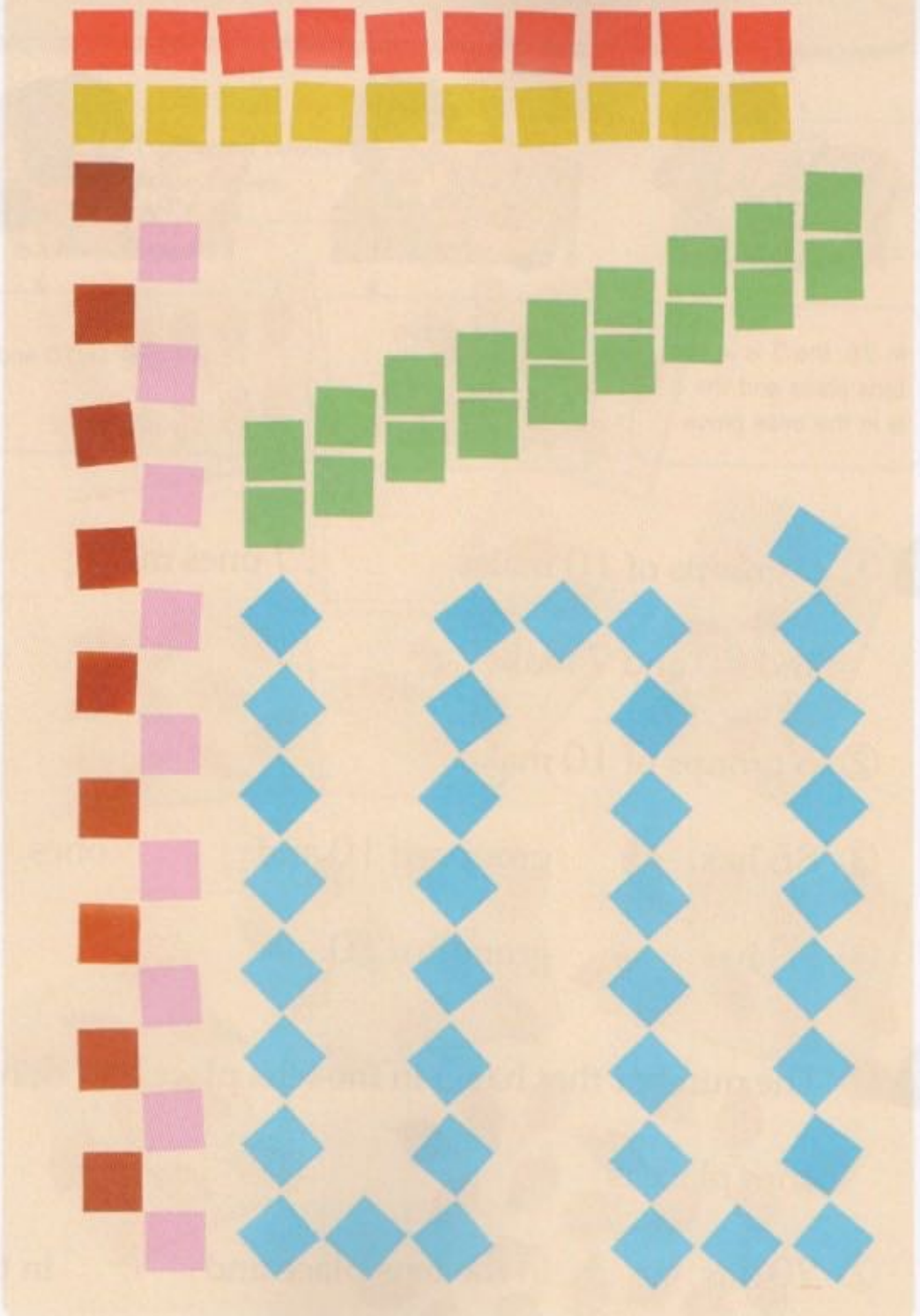
During arts class, we arranged many objects.

① Bottle caps



② Pudding cups

③ Origami paper



5 Show the number 76.

In 76, the 7 is in the tens place and the 6 is in the ones place.

7 groups of ten make 70.
6 ones make 6.
70 and 6 make 76.

76 is made of 70 and 6.

Se Puede Retomar

6 ① 9 groups of 10 make ____, 7 ones make ____ and 90 and 7 make ____.

② 6 groups of 10 make ____.

③ 86 has ____ groups of 10 and ____ ones.

④ 90 has ____ groups of 10.

7 ① The number that has 3 in the tens place and 8 in the ones place is ____.

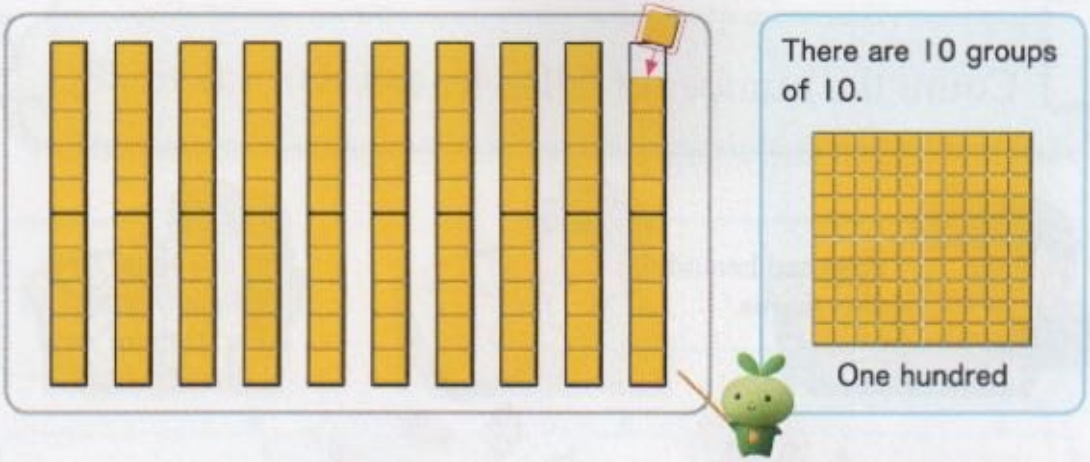
② 70 has ____ in the tens place and ____ in the ones place.

1 Count the number of fallen leaves.

I collected beautiful fallen leaves.

I wonder how many groups of 10 there are.

centena



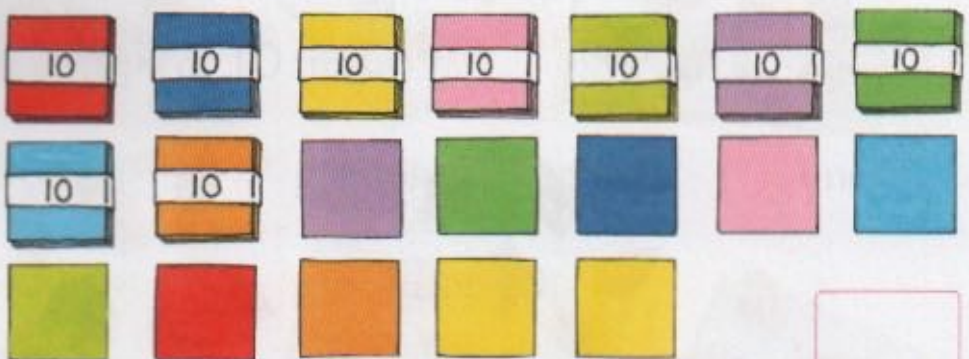
Ten groups of 10 is called **one hundred**.

It is written as 100.

100 is the number that is 1 more than 99.

2 Count the numbers.

①



②

La tabla de los números.
Nosotros no la usamos mucho.
No me gusta.

3 Find out how numbers up to 100 are lined up.

This number chart is found on the last page of this book.

① Find the numbers that have 3 in the ones place. What do you notice?

Going up and down...

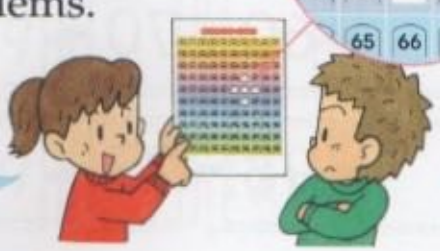
The numbers get bigger by 10.

② Find all the numbers that show 6 in the tens place.

③ Do you notice anything else?

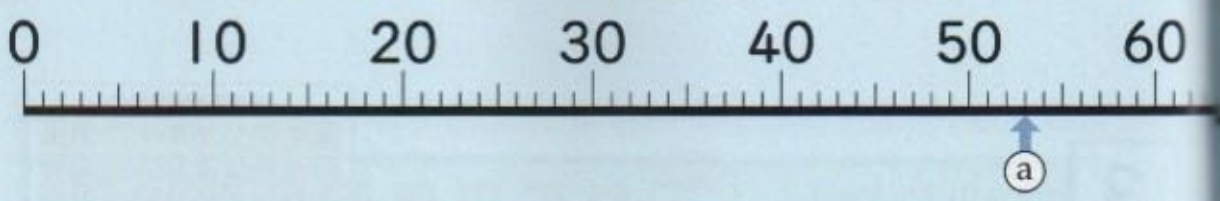
If you look diagonally starting at 0...

4 Use the number chart and make problems.



What is the number in the middle?

If you look at the numbers above and below. the numeral in the ones place is 6 and...



5 Look at the line of numbers. What numbers are ⓐ, ⓑ, ⓒ, and ⓓ pointing to?

6 Using a line of numbers, find the following numbers.

① the number that is 3 more than 46

② the number that is 2 less than 75

③ the number that is 4 more than 68

7 Put a ○ around the larger number.

① 50 47 ② 76 82 ③ 98 89

8 ① 67 68 ☐ ☐ 71 ☐ 73

② 40 ☐ 60 70 ☐ 90 ☐

③ 100 ☐ 98 97 ☐ 95 ☐

Numbers Greater Than 100

1 Count the number of fallen leaves.

100 and 3 make one hundred three.

It is written as 103.

Where is it on the line of numbers above?

2 Count the numbers.

3 ① 98 99 ☐ ☐ 102 103 ☐

② 108 109 ☐ ☐ ☐ 113 114

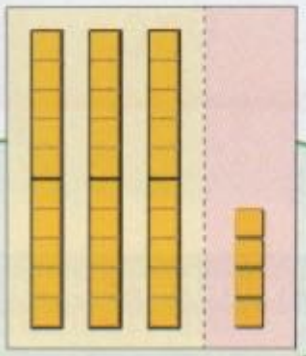
③ 118 119 ☐ 121 ☐ 123 ☐

Uso de material para operar

Numbers and Math Sentences

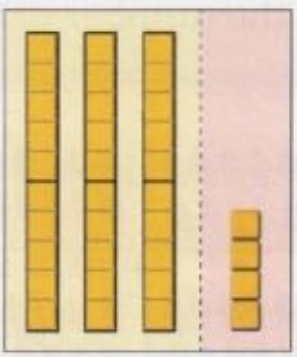
1 34 is 30 and 4.

Write the number in the □.



① A number made of 30 and 4 is □.

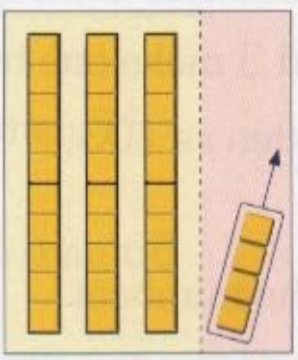
Math Sentence ▸ 30 + □ = □



Haruto

② Taking 4 away from 34 makes □.

Math Sentence ▸ 34 − □ = □



Ami

2 ① Adding 3 to 60 makes □.

Math Sentence ▸ 60 + □ = □

② Taking 3 away from 63 makes □.

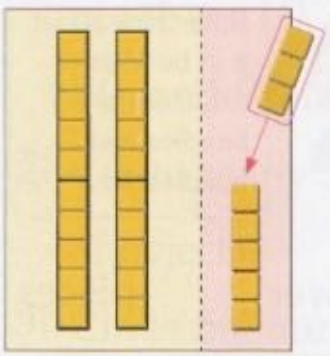
Math Sentence ▸ 63 − □ = □

3 ① 40 + 2 ② 60 + 8 ③ 42 − 2 ④ 73 − 3

Sin transformación. Se hace horizontal.

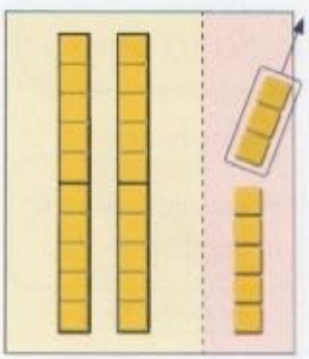
4 Think about how to calculate.

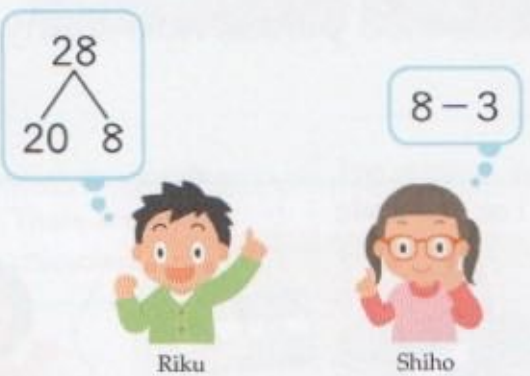
① 25 + 3



Math Sentence ▸ 25 + 3 = ☐

② 28 − 3



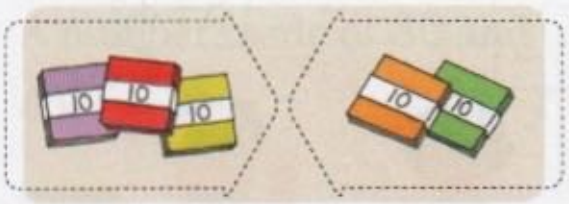


Math Sentence ▸ 28 − 3 = ☐

5 ① 23 + 4 ② 61 + 8 ③ 27 − 4 ④ 58 − 6

Adicción de sólo decenas

6 How many pieces of colored paper are there altogether?



Kota

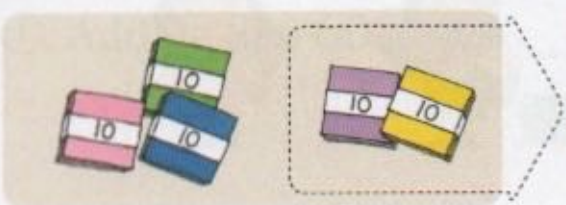
If we think about it in bundles of 10, there are 3 bundles and 2 bundles, so...

Math Sentence ▸ $30+20=\square$

Answer $\square$ pieces

7 There are 50 pieces of colored paper.

If we use 20 pieces, how many will be left?



Ami

If we think about it in bundles of 10...

Math Sentence ▸ $50-20=\square$

Answer $\square$ pieces

8 ① $20+70$ ② $60+40$ ③ $10+90$

④ $60-30$ ⑤ $100-20$ ⑥ $100-70$

sólo decenas

Use What You Have Studied

Number hunting bingo game

Number hunting bingo game

70	20	30
40	10	80
90	60	50

① Fill the 9 cells on a bingo card with numbers 10, 20, 30, 40, 50, 60, 70, 80, and 90 in any order.

② Count many types of objects.

③ Circle the number with the same numeral in the tens place as the number of each type of objects.

Number hunting bingo game

70	(20)	30
40	10	80
90	60	50

There are 29 unicycles.

The numeral in the tens place is 2, so I'll circle 20 on the card.

④ If 3 circles are lined up in any column, row, or diagonal, say "Bingo."

70	(20)	30
40	(10)	80
90	(60)	50

Number hunting bingo game

(20)	(20)	30
40	(10)	80
90	(60)	50

unicycles	29 units
Shoe box for customers	75 pieces

15 Which One Takes Up More Space?

Área

What are they comparing?

1 Which one takes up more space?

Think about how to compare them.

2 Put them in order from largest to smallest.

3 Which one takes up more space?

Think about how to compare them.

Tiles that take up the same space are laid out.

Ⓟ

ⓠ

Ⓟ takes up the space of ☐ pieces of ▭.
ⓠ...

Misaki

If you show a space as the number of ▭ that would fit, you can compare spaces by using numbers.

Haruto

Let's play a territory-winning game

- If you win, color in a ☐.
- Whoever colors more spaces wins.

16 Time — hours and minutes

1 Talk about your day.

See How to Tell Time on the next page.

2 What time is it on each of the following clocks?

What are the hours and minutes on the next one?

How to Tell Time — (hours and minutes)

〈Practice〉

① The short hand tells the hour.

10 o'clock

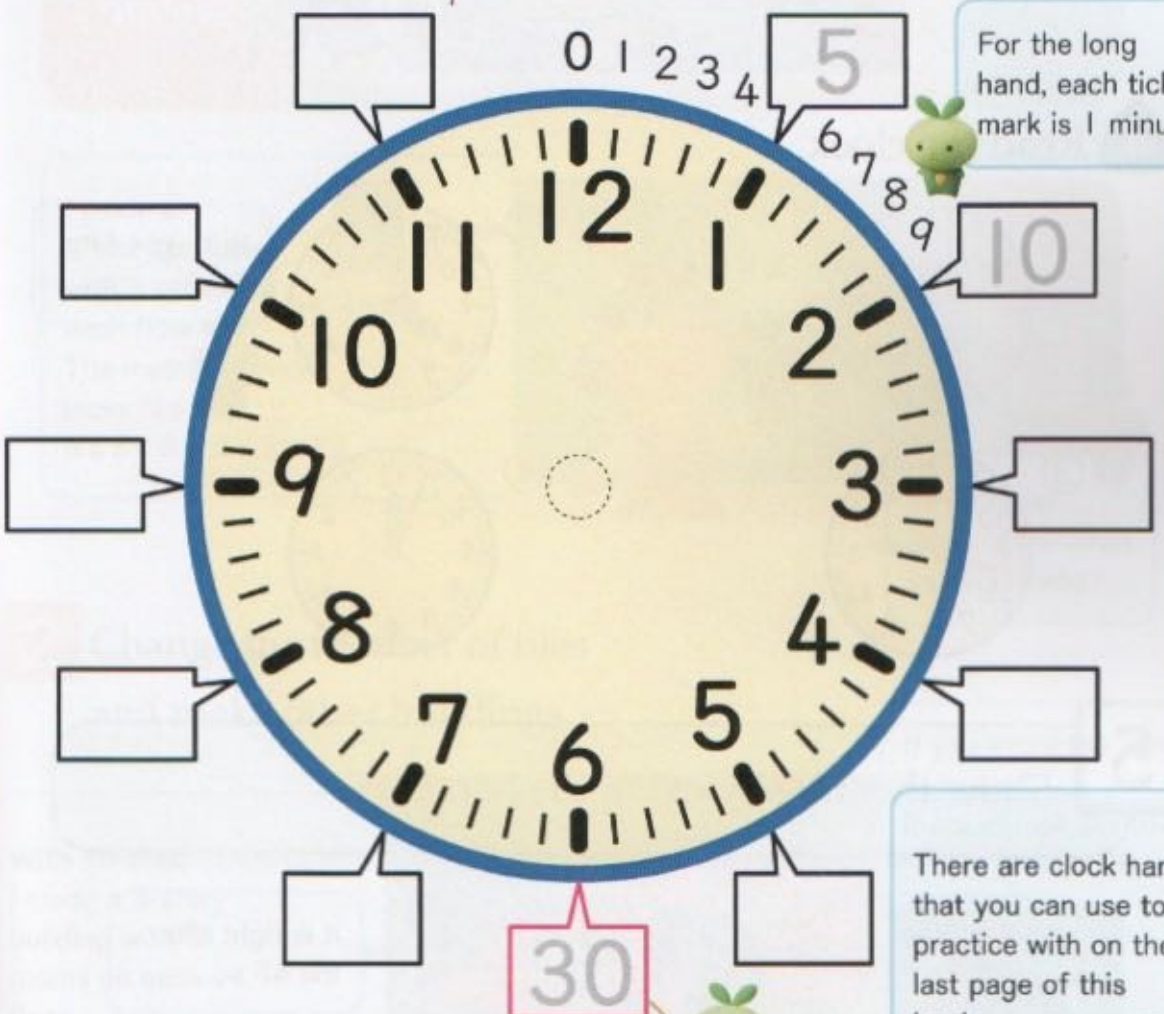
10:00

The time between 10 o'clock and 11 o'clock is read as "10 _____."

11 o'clock

11:00

② Using the long hand , read the "minutes".

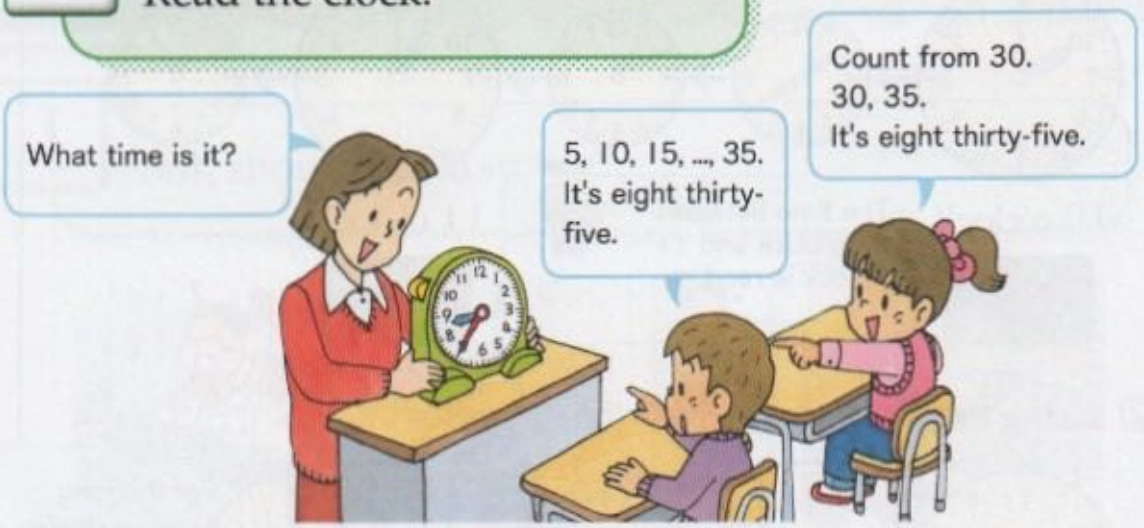


For the long hand, each tick mark is 1 minute.

There are clock hands that you can use to practice with on the last page of this book.

"Ten thirty" is also called half-past ten.

3 Read the clock.



4 Read the clock.

① 

Is it one five?

② 

Is it eight fifty-five?

③ 

④ 

5 Show the time by using the hands.

principios de multiplicacion

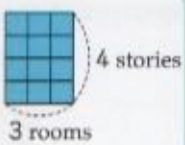
Let's Make Buildings

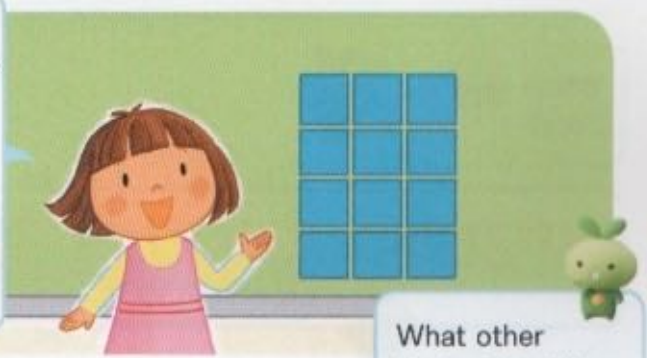
1 Make a building using 12 colored tiles.
Thinking of each ■ as 1 room, let's make buildings.

Rules

1. Make a building in the shape of a rectangle.
2. Use all of the tiles.
3. All of the tiles should be connected.

I made a 4-story building with 3 rooms on each floor.
The math sentence looks like this:
It's 3+3+3+3 = 12.



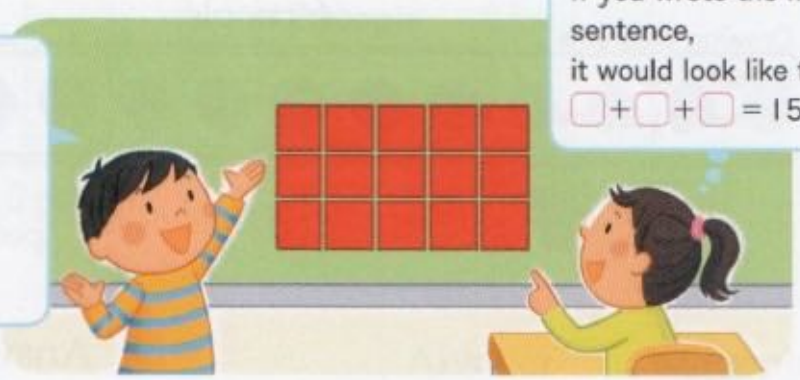


What other kinds of buildings can you make?

2 Change the number of tiles and make other buildings.

With 15 tiles,
I made a 3-story building with 5 rooms on each floor.

If you wrote the math sentence,
it would look like this:
□+□+□ = 15



suma repetida

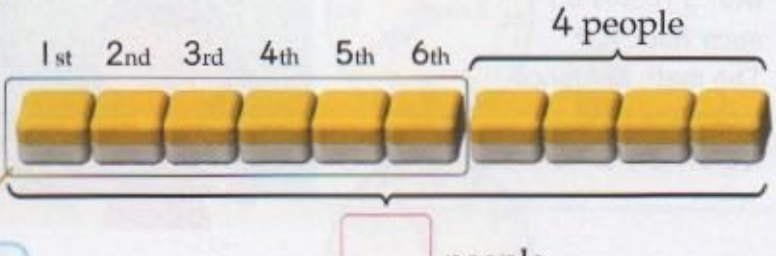
17 Addition and Subtraction

1 Sora is the 6th person in line.

There are 4 people behind him.

How many people are in line altogether?

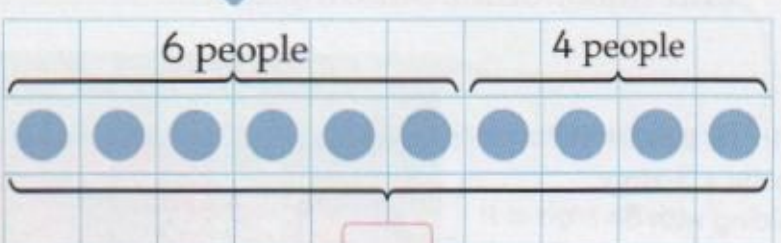
Which  is Sora?



How many people are in the ☐?

☐ people

Drawing diagrams is useful for reviewing your idea later.



☐ people

Math Sentence

Answer ☐ people

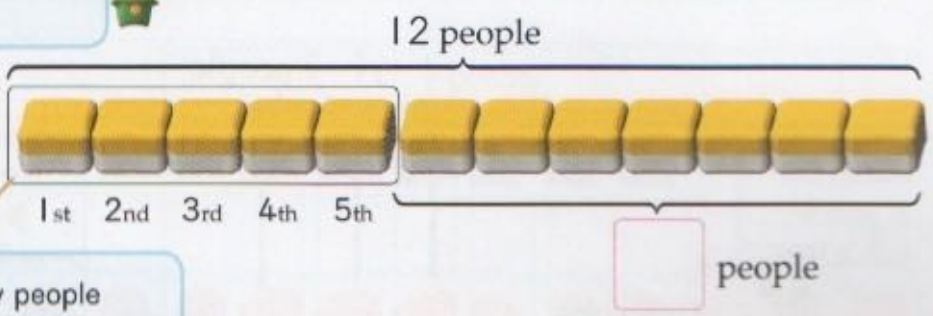
ordinales

2 There are 12 people riding on the train.

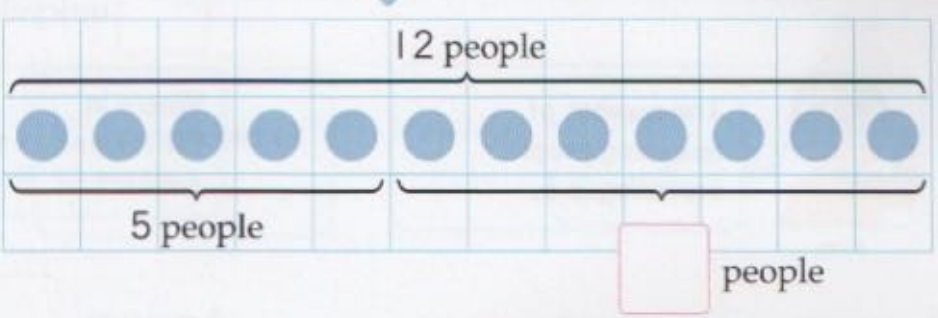
Mika is the 5th person.

After Mika, how many people are there?

Which  is Mika?



How many people are in the ☐?



Math Sentence

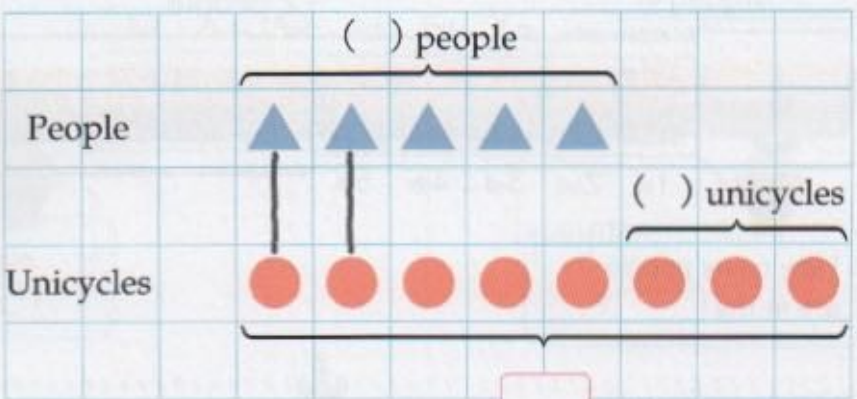
Answer ☐ people

3 There are 5 people riding unicycles.

There are 3 more unicycles.

How many unicycles are there altogether?

Match the ▲ and ● with a line.



Kota

The number of unicycles people are riding is 5.

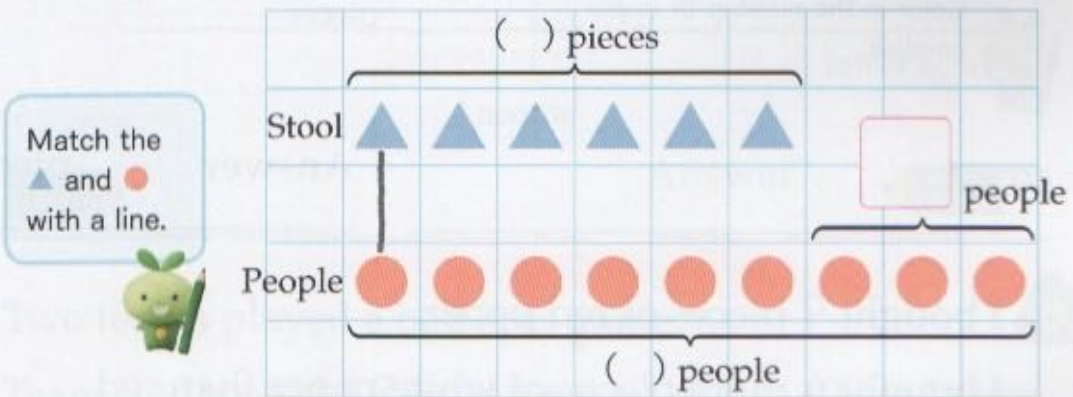
Where in the diagram is the answer?

Math Sentence

Answer ☐ unicycles

4 There are 6 stools. 9 children are going to play musical chairs.

How many children will fail to sit on a stool?



Match the ▲ and ● with a line.

Shiho

( ) people can sit on stools.

Where in the diagram is the answer?

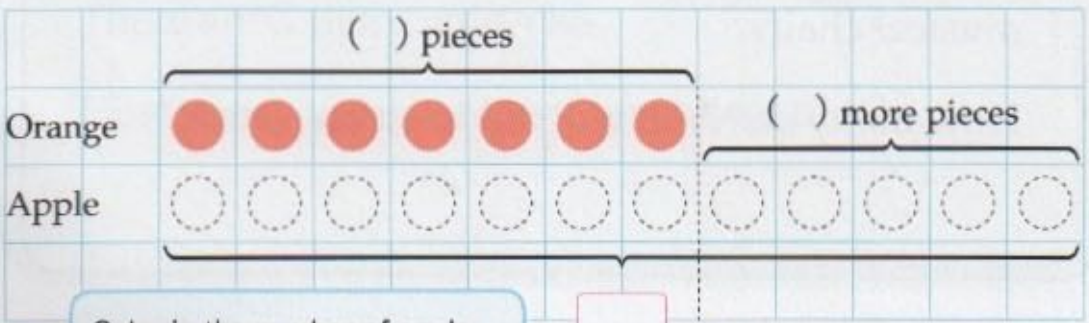
Math Sentence

Answer ☐ people

Otro tipo de problema aditivo. este es de comparacion

5 There are 7 pieces of orange candies. There are 5 more pieces of apple candies than orange.

How many pieces of apple candies are there?



Color in the number of apple candies.

[ ] pieces

Math Sentence

Answer [ ] pieces

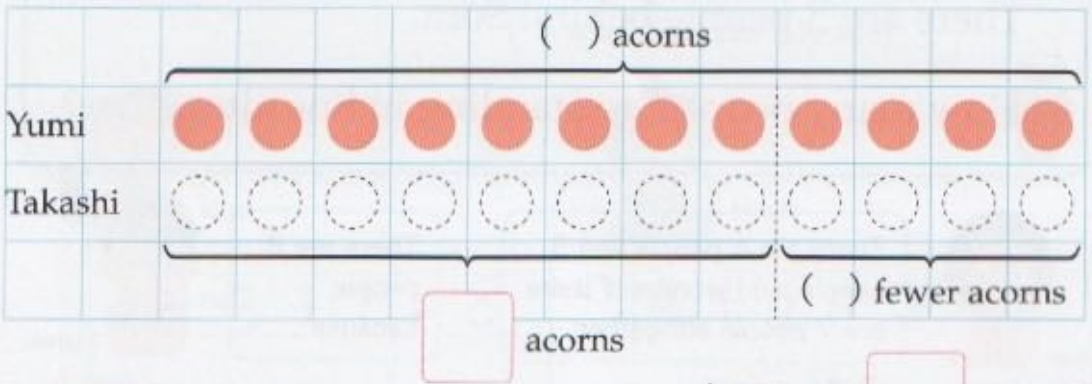
6 I bought 9 pieces of red paper.

I bought 4 more pieces of white paper than red.

How many pieces of white paper did I buy?

problemas mas complejos

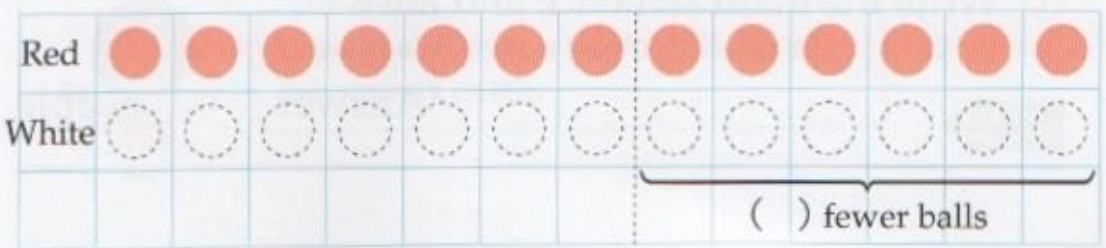
7 Yumi and Takashi collected acorns. Yumi collected 12 acorns. Takashi collected 4 pieces fewer than Yumi. How many acorns did Takashi collect?



Math Sentence

Answer acorns

8 Two teams played a ball-toss game. Team Red tossed 13 balls into the basket. Team White tossed 6 fewer balls into the basket than Team Red. How many balls did Team White toss into the basket?



9

People are in line waiting for the bus.

There are 4 people in front of Sora.

There are 3 people behind Sora.

How many people are standing in line altogether?

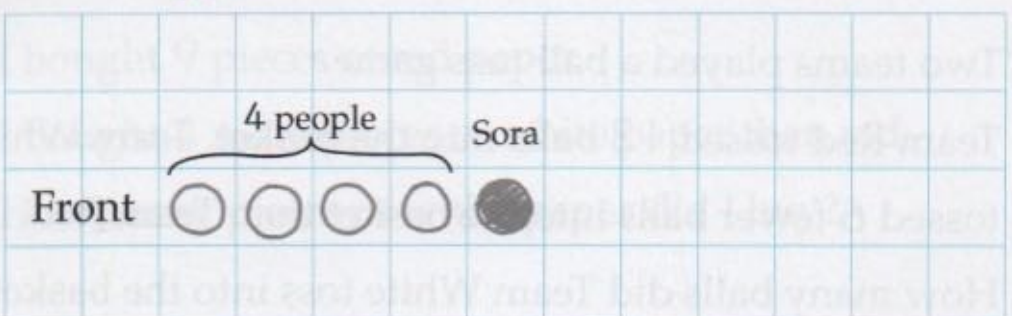

Ami

There are 4 people and 3 people, so I wonder if there are 7 people altogether.

There are 8 people, because...

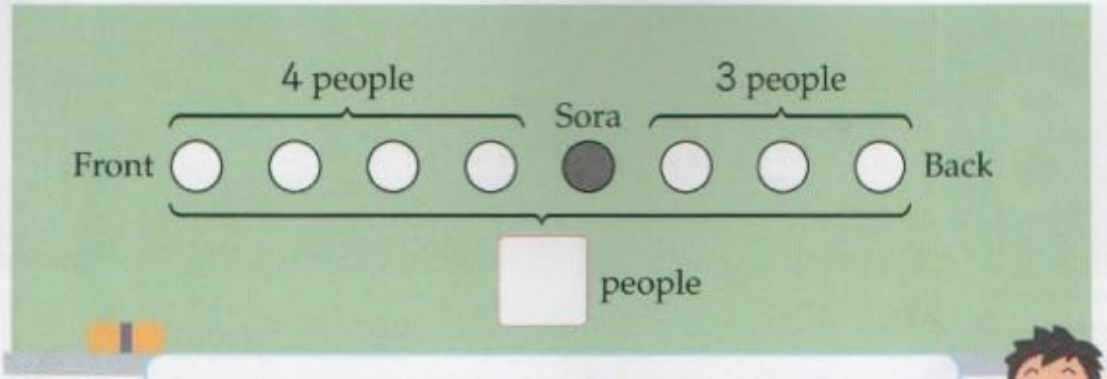

Haruto


Finish the diagram and think.



① Write the math sentence and answer.

Math Sentence _____ Answer ☐ people



When you draw a diagram, it's clear why you have to add 1, Sora, to the 4 people in front of him and the 3 people behind him.

Riku

I wonder what kind of math sentences your friends wrote.

② Explain Kota's and Misaki's ideas.

In what order did they add?

Kota

Misaki

$4 + 3 + 1 = 8$

Answer 8 people

$4 + 1 + 3 = 8$

Answer 8 people

Shiho

Kota added the 4 people in front and the 3 people behind first...

Compare Kota's and Misaki's ideas.

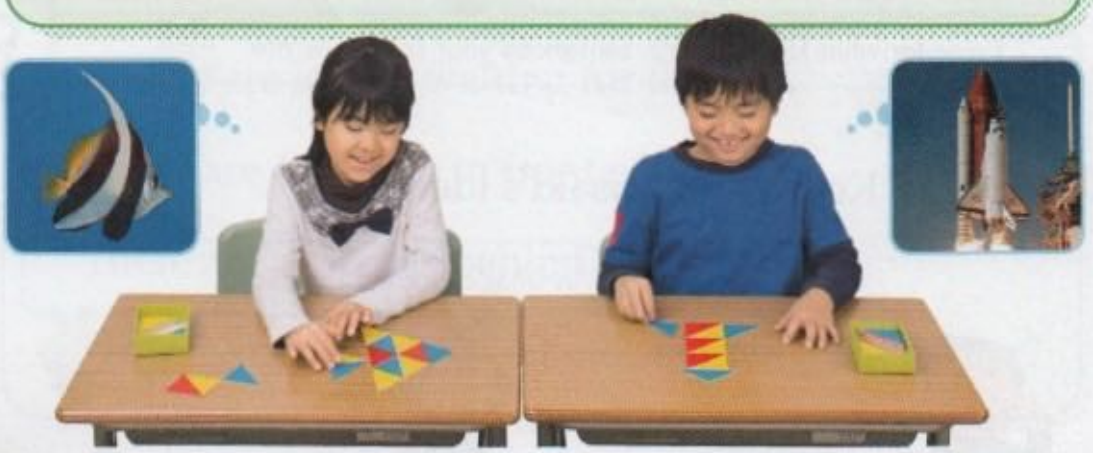
③ What do you notice?

Ami

Drawing a diagram is helpful. It shows all the numbers clearly.

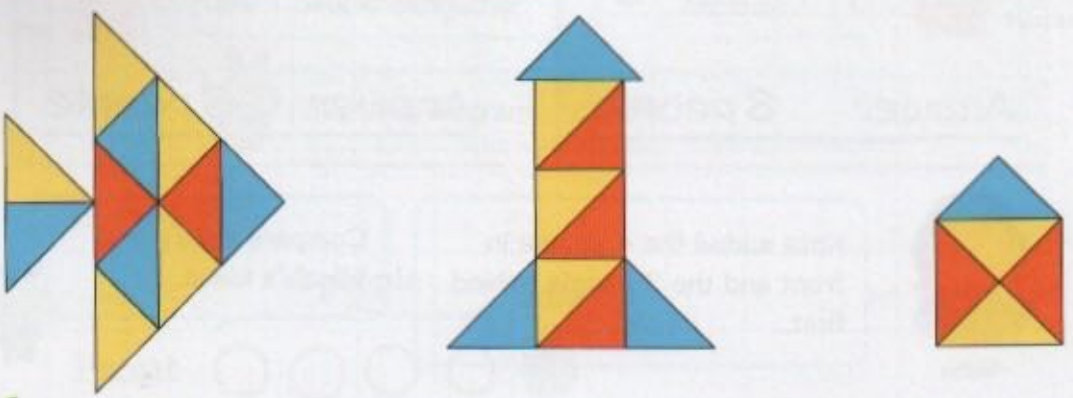
18 Making Shapes

1 Arrange the colored tiles to make different shapes.



What shapes did they make?

〈Move〉



What do you notice?

With 2 colored tiles, we could make a triangle.

Misaki

Also a square...

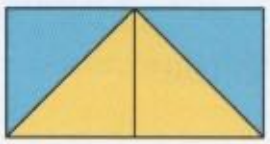
Haruto

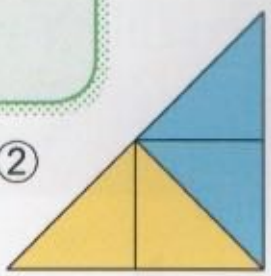
Also with 4 tiles...

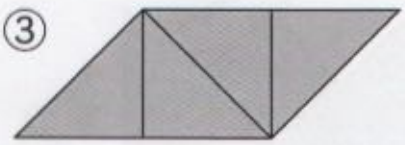
Ami

triángulos
rectangulos

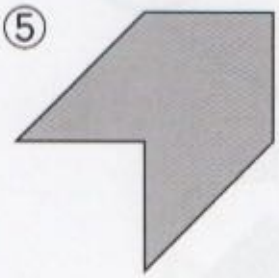
2 Using 4 colored tiles, make the following shapes.

① 

② 

③ 

④ 

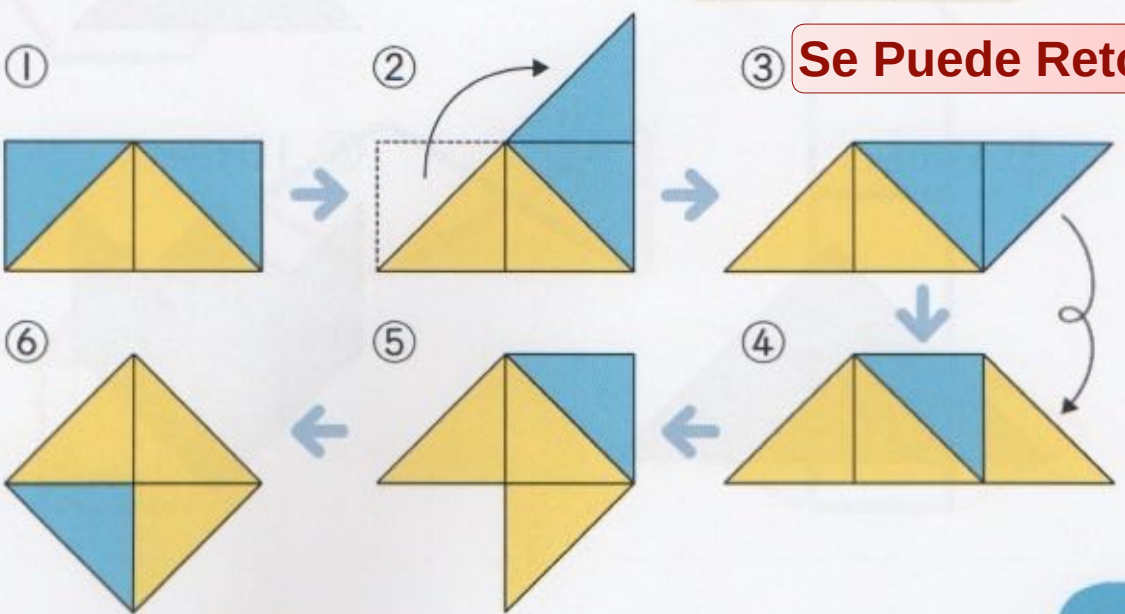
⑤ 

⑥ 

When the shape changes, does the space it takes up change?

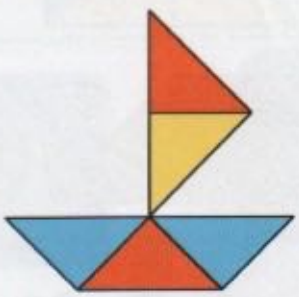
3 Move only 1 tile to make a new shape.

Se Puede Retomar



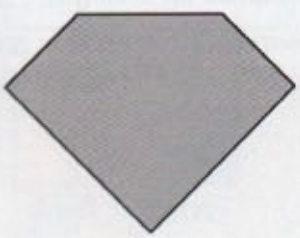
4 Use the given number of colored tiles to make each of the shapes below.

① 5 tiles

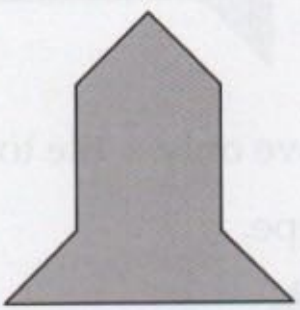


② 6 tiles

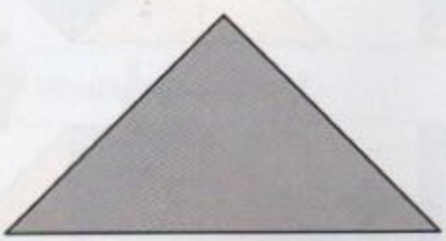
③ 7 tiles



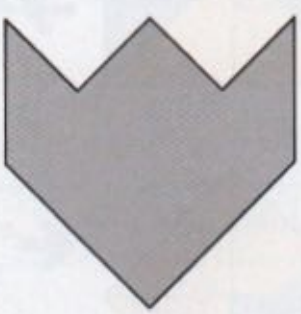
④ 8 tiles



⑤ 9 tiles

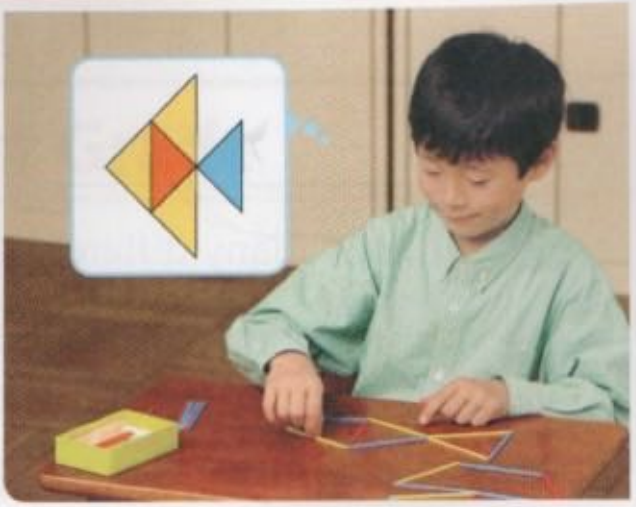


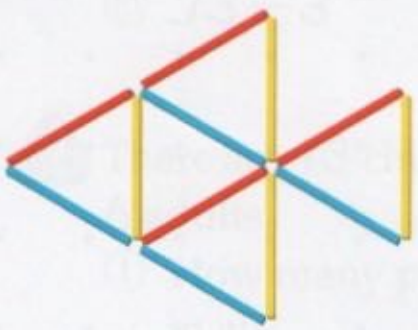
⑥ 10 tiles

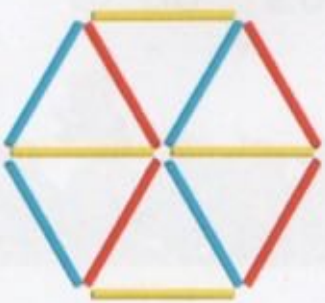


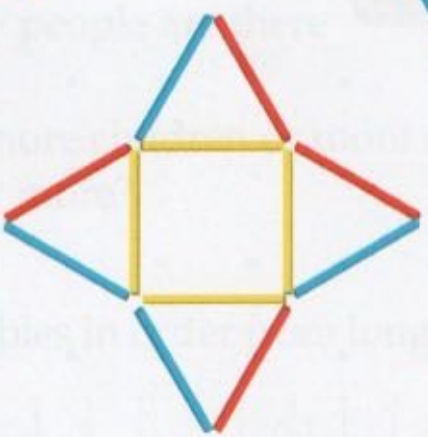
interesante

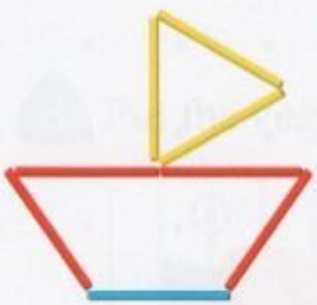
5 Use colored sticks to make many different shapes.

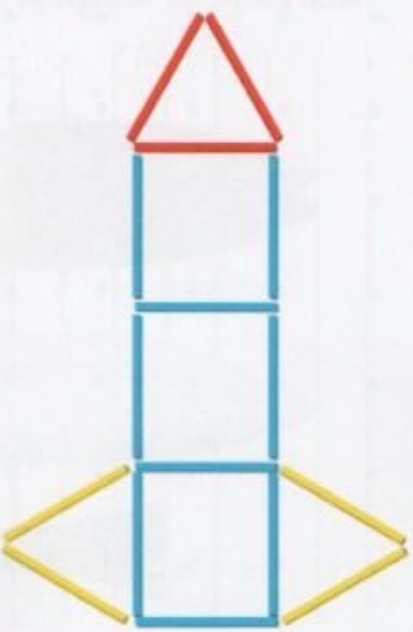




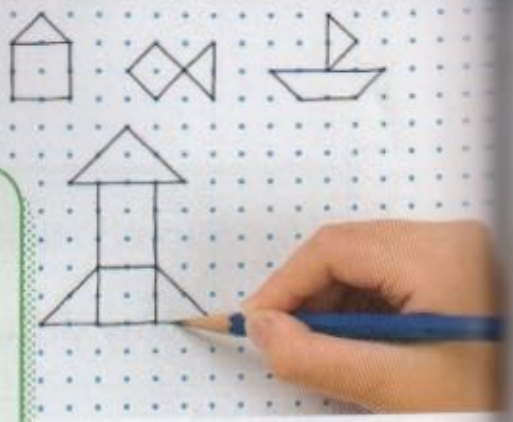








Se Puede Retomar



6 Draw many different shapes by connecting the • with lines.

Review of 1st Grade

1 ① $8+9$ ② $4+9$ ③ $10+8$

④ $40+3$ ⑤ $13+4$ ⑥ $20+70$

⑦ $17-8$ ⑧ $14-6$ ⑨ $16-6$

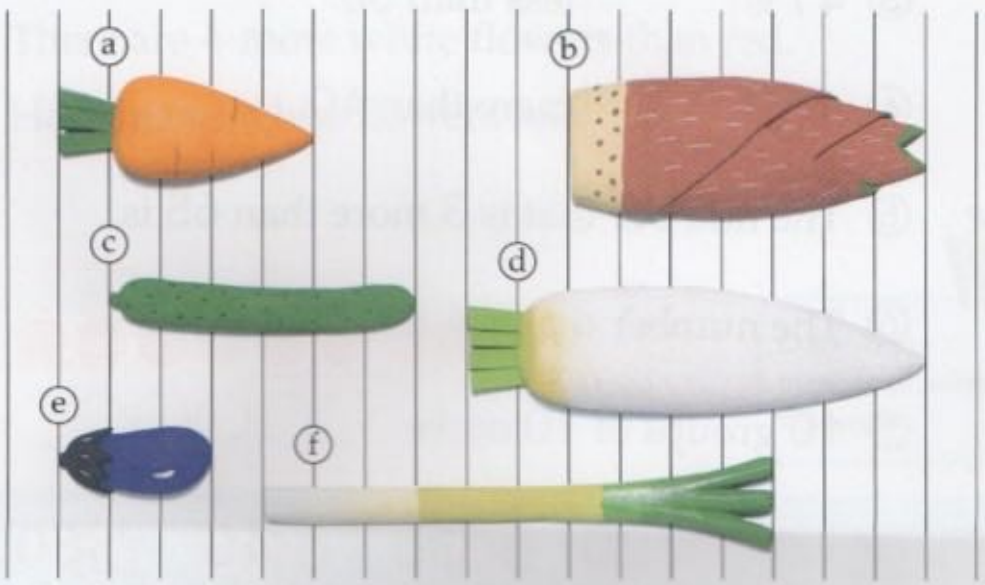
⑩ $73-3$ ⑪ $18-4$ ⑫ $60-20$

2 There are 13 children and 6 adults.

① How many people are there in all?

② Are there more children or more adults? How many more?

3 Put the vegetables in order from longest to shortest.



4 Which bottle holds more water?

ⓐ 

ⓑ 

5 Look at the line of numbers below and write the correct number in each ☐.

① In the line of numbers below, ⓕ is pointing to ☐, ⓖ is pointing to ☐, and ⓗ is pointing to ☐.

② 47 is made of ☐ and 7.

③ 47 is ☐ less than 50.

④ 47 is ☐ more than 40.

⑤ The number that is 3 more than 65 is ☐.

⑥ The number that is 4 less than 72 is ☐.

⑦ 10 groups of 10 make ☐.

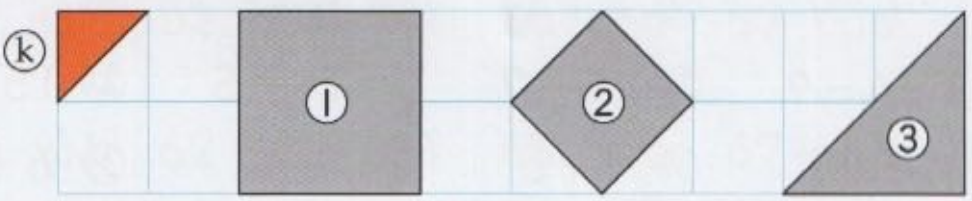
6 What time is it?

① 

② 

③ 

7 How many pieces of tile ⓚ do we need to make each of the shapes below?



8 There are 8 red flowers. There are 4 more white flowers than red. How many white flowers are there?

Color in the number of white flowers.

Be a Master of Calculation

① 7+6	② 9+5	③ 4+8	④ 9+8
⑤ 15−8	⑥ 11−4	⑦ 14−6	⑧ 11−8
⑨ 7+4	⑩ 5+7	⑪ 8+6	⑫ 6+5
⑬ 13−7	⑭ 17−9	⑮ 12−3	⑯ 15−7
⑰ 3+9	⑱ 9+4	⑲ 8+9	⑳ 5+8
㉑ 12−9	㉒ 16−9	㉓ 11−2	㉔ 12−6
㉕ 9+9	㉖ 8+4	㉗ 5+6	㉘ 2+9
㉙ 14−9	㉚ 16−7	㉛ 11−5	㉜ 16−8
㉝ 8+7	㉞ 7+5	㉟ 7+7	㊱ 6+9
㊲ 13−9	㊳ 14−7	㊴ 12−5	㊵ 11−9
㊶ 9+3	㊷ 7+8	㊸ 9+7	㊹ 6+6
㊺ 13−4	㊻ 11−7	㊼ 13−5	㊽ 14−8
㊾ 8+8	㊿ 4+9	(51) 3+8	(52) 8+5
(53) 18−9	(54) 13−8	(55) 11−3	(56) 15−9
(57) 4+7	(58) 6+8	(59) 7+9	(60) 6+7
(61) 12−7	(62) 17−8	(63) 15−6	(64) 11−6
(65) 9+2	(66) 5+9	(67) 8+3	(68) 9+6
(69) 12−4	(70) 13−6	(71) 12−8	(72) 14−5

0	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29
30	31	32	33	34	35	36	37	38	39
40	41	42	43	44	45	46	47	48	49
50	51	52	53	54	55	56	57	58	59
60	61	62	63	64	65	66	67	68	69
70	71	72	73	74	75	76	77	78	79
80	81	82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97	98	99
100									

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1st grade Classroom	

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Editorial supervisors
Toshiakira Fujii Professor Emeritus of Mathematics Education Tokyo Gakugei University
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Tad Watanabe Kennesaw State University (Project Director)

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Phone Global Marketing Department +81(3)53907551

代表
藤井斉亮 東京学芸大学名誉教授 真島秀行 お茶の水女子大学名誉教授

「新しい算数」編集委員会 東京書籍株式会社

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