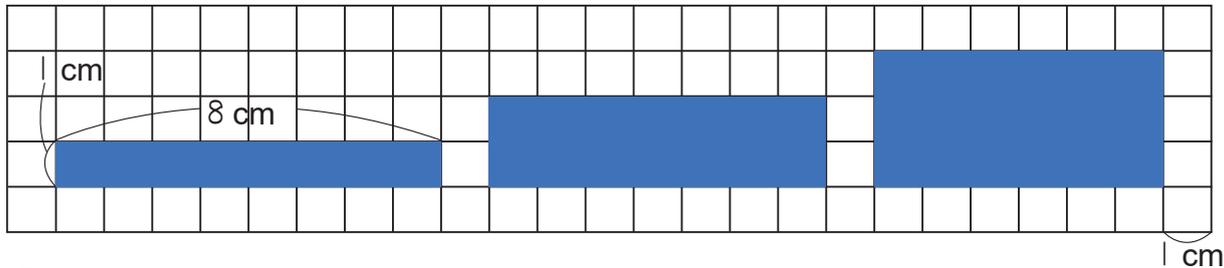


12-1

Change Log

Change Log (1)

Example 1 Draw various rectangles with a perimeter of 18 cm.



1 Summarize the relationship between Length and width in the table.

Length	1	2	3	4	5	6	7	8
Width	8	7	6	5	4	3	2	1

There are two lengths and two width, so...



2 If the length increase by 1 cm, how does the width change?

Decrease by 1 cm

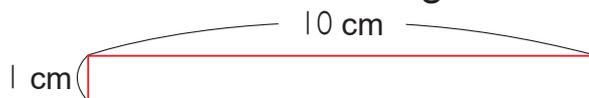
3 Looking at the table, let's make a math sentence where the length is \bigcirc cm and the width is \square .

$$\bigcirc + \square = 9$$

4 If the length is 6 cm, what is the width?

3 cm

Make a rectangle using a piece of string 22 cm long. Find the length and the width of the rectangle.



1 Summarize the relationship between the length and width in the table.

Length	1	2	3	4	5	6	7	...
Width	10							...

2 If the vertical length increases by 1 cm, how does the width change?

3 Looking at the table, let's make a math sentence where the Length is \bigcirc cm and the Width is \square .

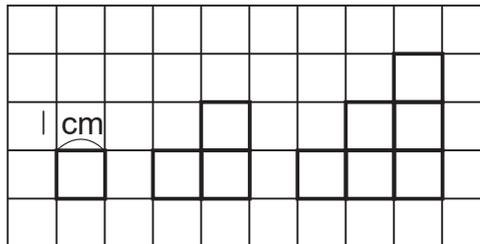
4 If the length is 9 cm, what is the width?

12-2

Change Log

Change Log (2)

Example Arrange the squares in the staircase and measure the perimeter.



- 1 Summarize the relationship between the number of steps and the perimeter in the table.

Number of Steps	1	2	3	4	5	6	7	...
Perimeter	4	8	12	16	20	24	28	...

- 2 Let's make a math sentence with ○ for the number of steps and □ for the length of the perimeter.

$$4 \times \bigcirc = \square$$

- 3 What is the perimeter of 7 steps?

28 cm

- 4 How many steps are there when the perimeter of the steps is 32 cm?

8 steps

Arrange the equilateral triangle in a staircase and measure perimeter.



- 1 Summarize the relationship between the number of steps and the perimeter in the table.

Number of Steps	1	2	3	4	5	6	7	...
Perimeter	3							...

- 2 Let's make a math sentence with ○ for the number of steps and □ for the perimeter.

- 3 What is the perimeter of 8 steps?

- 4 How many steps are there when the perimeter of the steps is 30 cm?

12-3

Change Log

Change Log (3)

Example A student walk 30 m per minutes.

- 1 Summarize the relationship between the minutes and the distance in the table below.

Minutes	0	1	2	3	4	5	...
Distance (m)	0	30	60	90	120	150	...

- 1 How many m does student walk in a minute?

30 m

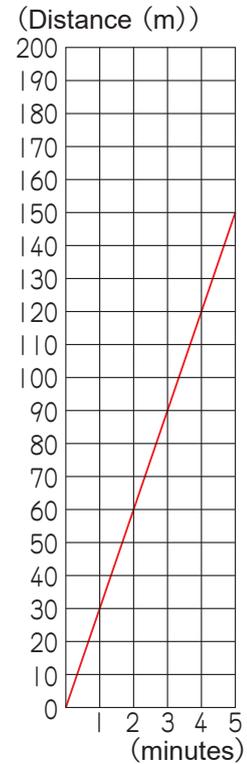
- 2 Look at the table and draw a graph.

- 3 If 6 minutes passed, how much will the student go?

180 m

- 4 If the student walked 360 m, how many minutes does it take?

12 minutes



Measure the time it takes to fill a bucket with water.

- 1 Summarize the relationship between the amount of water and the minutes needed in the table below.

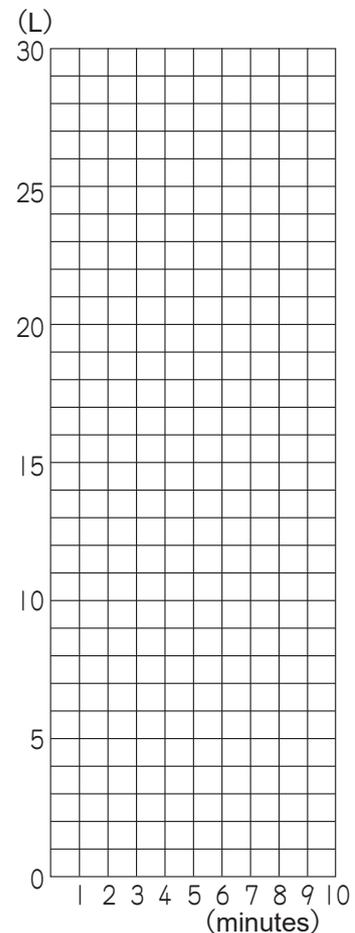
Minutes	0	1	2	3	4	5	6	...
Amount of water (L)	0	5						...

- 2 How much water will fill up in one minute?

- 3 Look at the table and draw a graph.

- 4 How much water will be collected in 7 minutes?

- 5 How many minutes does it take to collect 50 liters of water?



12-4

Change Log

Review

- 1 Summarize the relationship between the length and the width of rectangle or square with perimeter of 20 cm in the table.

Length	1	2	3	4	5	6	7	...
Width	9							...

- 1 If the length is 9 cm, what is the width?

- 2 If the width is 2 cm, what is the length?

- 2 The hot spring gush 12 L per minutes. Write the relationship between the minutes and amount of water.

※ Gush means that water comes out of the ground.

Minutes	0	1	2	3	4	5	6	...
Amount of water (L)	0	12						...

- 1 Look at the table and draw a graph.

- 2 How much water gush in one minute?

- 3 Let's make an math sentence with ○ for the hours and □ for the amount of water.

- 4 How much water will be gushed in 7 minutes?

- 5 How many minutes does it take to gush 132 liters of water?

Amount of water (L)

