



Scale



Watch video

MathApex

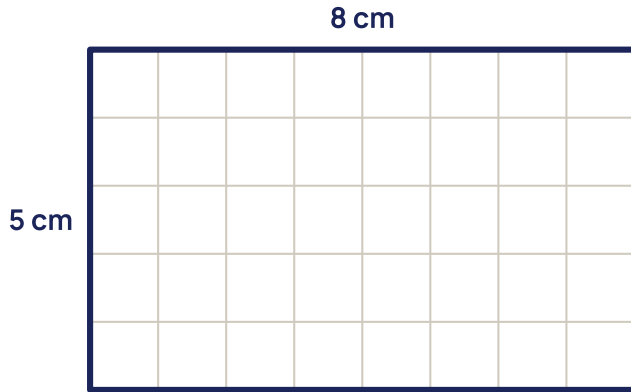
Name: _____

Date: _____

From the video 1 cm on the plan = 2 m in real life: 5 cm $\rightarrow 5 \times 2 = 10$ m

1 Now it's your turn!

The garden is 8 cm long on the plan. How many meters is that?



Scale: 1 cm on the plan is 2 m in real life.

$$8 \times 2 = \boxed{} \text{ m}$$

3 Converting.

1 cm on the plan = 2 m.

	m		cm
10 cm		14 m	
3 cm		6 m	
4 cm		20 m	
1 cm			

5 Think backwards.

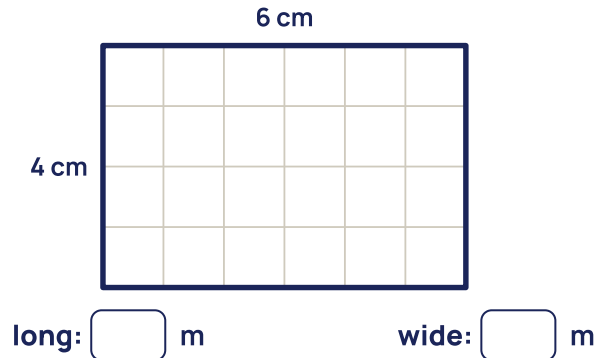
On the plan, a path is 15 cm long. How long is it in real life? And how long would it be on the plan if 1 cm = 1 m?

$$15 \times 2 = \boxed{} \text{ m}$$

$$\text{at } 1 \text{ cm} = 1 \text{ m: } \boxed{} \text{ cm}$$

2 Reading a plan.

The plan shows a playground. 1 cm = 2 m.

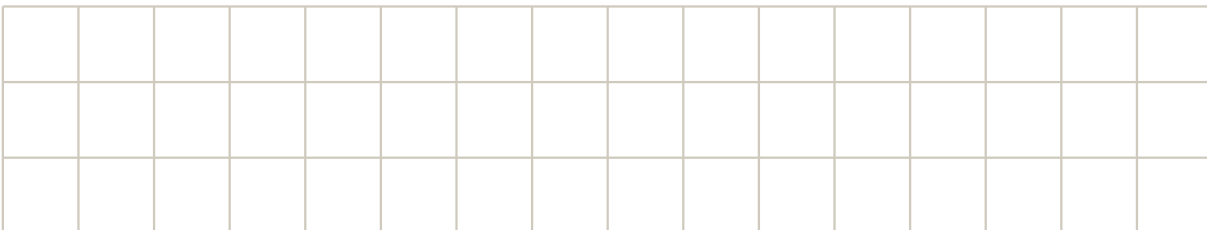
**4 Words only.**

A swimming pool is 18 m long in real life. How long is it on the plan (1 cm = 2 m)?

$$18 \div 2 = \boxed{} \text{ cm}$$

★ Brain teaser

Another plan has the scale 1 cm = 5 m. A house on it is 6 cm long. How long is the house in real life? How long would it be on our plan (1 cm = 2 m)?

6 Draw the plan: A room is 10 m long and 2 m wide. Scale 1 cm = 2 m.



Scale

**1 Now it's your turn!**

$$8 \times 2 = 16 \text{ m}$$

2 Reading a plan.

$$6 \text{ cm} \rightarrow 12 \text{ m long}$$

$$4 \text{ cm} \rightarrow 8 \text{ m wide}$$

3 Converting.

$$10 \text{ cm} = 20 \text{ m} \quad 3 \text{ cm} = 6 \text{ m}$$

$$4 \text{ cm} = 8 \text{ m} \quad 1 \text{ cm} = 2 \text{ m}$$

$$14 \text{ m} = 7 \text{ cm} \quad 6 \text{ m} = 3 \text{ cm}$$

$$20 \text{ m} = 10 \text{ cm}$$

4 Words only.

$$18 \div 2 = 9 \text{ cm}$$

5 Think backwards.

$$15 \times 2 = 30 \text{ m}$$

$$\text{at } 1 \text{ cm} = 1 \text{ m: } 30 \text{ cm}$$

★ Brain teaser

$$6 \times 5 = 30 \text{ m}$$

$$\text{on our plan: } 30 \div 2 = 15 \text{ cm}$$

6 Drawing the plan.

$$10 \text{ m} \rightarrow 5 \text{ cm}, 2 \text{ m} \rightarrow 1 \text{ cm: a rectangle } 5 \text{ cm} \times 1 \text{ cm.}$$

For parents and teachers: This worksheet goes with the video "Scale" (Math Story 62, Grade 4). Scale 1 cm = 2 m: plan length times 2 gives the real length, real length divided by 2 gives the plan length. The grid in task 6 has 1 cm squares.

More Math Stories with video and worksheet: www.mathapex.app/en/math-stories/