Scale

MathApex

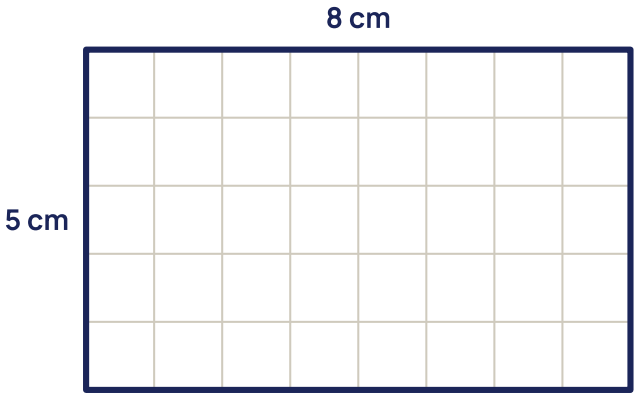
Name: _____ Date: _____

Watch video

From the video 1 cm on the plan = 2 m in real life: 5 cm → **5 × 2 = 10 m**

1 Now it's your turn!

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

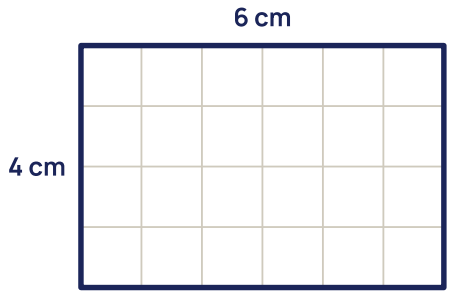


Scale: 1 cm on the plan is 2 m in real life.

8 × 2 = ☐ **m**

2 Reading a plan.

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



long: ☐ **m** **wide:** ☐ **m**

3 Converting.

1 cm on the plan = 2 m.

	m
10 cm	
3 cm	
4 cm	
1 cm	

	cm
14 m	
6 m	
20 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 ÷ 2 = ☐ **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 × 2 = ☐ **m**

at 1 cm = 1 m: ☐ **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

Watch video

1 Now it's your turn!

8 × 2 = 16 m

2 Reading a plan.

6 cm → 12 m long
4 cm → 8 m wide

3 Converting.

10 cm = 20 m
4 cm = 8 m
14 m = 7 cm
20 m = 10 cm
3 cm = 6 m
1 cm = 2 m
6 m = 3 cm

4 Words only.

18 ÷ 2 = 9 cm

5 Think backwards.

15 × 2 = 30 m
at 1 cm = 1 m: 30 cm

★ Brain teaser

6 × 5 = 30 m
on our plan: 30 ÷ 2 = 15 cm

6 Drawing the plan.

10 m → 5 cm, 2 m → 1 cm: a rectangle 5 cm × 1 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/**