

Interpreting scale maps and distances

MODULE 8 · LOCATION, TRANSFORMATIONS AND SCALE

SHAPE & SPACE

HOW TO ANSWER TODAY

- **Scale drawing.** Scale 1:N means 1 unit on the drawing = N units in real life. Multiply the drawing length by N.

STRETCH PROBLEMS

- 1 Cian is making a scale drawing of the school grounds for Engineers Week. The scale is **1:500**. The path from the yard to the gate measures **2 cm** on his drawing. What is the real length of the path?
- 2 Aoife is drawing a plan of the school yard for her art project. She uses a scale of **1:1000**. One side of the yard measures **7 cm** on her drawing. What is the real length of that side?
- 3 Cian is studying a map of the Wicklow mountains drawn at a scale of **1:50000**. The walking path from the visitor centre to Glendalough measures **4 cm** on the map. What is the real length of the path?
- 4 For STEM week, 6th class are building a model of a small park footbridge from a scale drawing drawn at **1:50**. A line on the drawing measures **13 cm**. What is the real length of that part of the bridge?
- 5 In the after-school crafts club, Aoife is making a scale plan of the school garden. The plan is drawn at a scale of **1:100**. A path on the plan measures **12 cm**. What is the real length of the path?



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