

Scale drawings and scale maps: small drawings of big things

MODULE 7 · DATA, CHANCE AND THE CO-ORDINATE PLANE DATA & CHANCE

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 draws a scale plan of the school yard for his geography project at a scale of **1:500**. On his drawing, the long edge of the basketball court measures **5 cm**. What is the real length of that edge in metres?
- 2 Saoirse is studying a map of Glendalough drawn at a scale of **1:50000** for her 5th class project. A path on the map measures **8 cm**. What is the real length of the path?
- 3 Cian's 5th class is planning a school tour to Glendalough and Mr O'Brien sketches the visitor centre on a plan drawn at a scale of **1:50**. The front wall of the centre measures **9 cm** on his plan. What is the real length of the wall in metres?
- 4 Aoife's class is designing a scale drawing of the new SuperValu car park at a scale of **1:200**. On her drawing, the length of the car park measures **15 cm**. What is the real length of the car park in metres?
- 5 Aoife is drawing a plan of the school garden at a scale of **1:500** for Engineers Week. A path on her drawing measures **7 cm**. What is the real length of the path?