

Creating simple scale drawings

WHAT THIS LESSON TEACHES

A **scale drawing** shrinks real measurements by a fixed ratio so they fit on paper. Divide real lengths by the scale to draw them.

→ At 1 : 50, a 5 m wall is drawn 10 cm long ($500 \text{ cm} \div 50$).

MODEL THIS ON THE BOARD

DRAW A 6 M WALL AT A SCALE OF 1 : 50

- 1 6 m = 600 cm real.
- 2 Divide by the scale: $600 \div 50 = 12 \text{ cm}$ on paper.

ANSWER KEY

W1: (3, 8) → Q1

W2: 1 m

W3: (1, 4) → Q1

W4: (8, 4) → Q1

Q1: 8 units

Q2: (-6, 9) → Q2

Q3: (8, -4) → Q4

Q4: (-6, 9) → Q2

EXTENSION SHEET · STRETCH ANSWERS

S1: 25 m

S2: (-6, 4) → Q2

S3: 30 m

S4: (4, -4) → Q4

S5: (8, -4) → Q4

Investigation: Map your classroom — open-ended; scan pupils' working for valid solution paths rather than a single answer.