

Creating simple scale drawings

WHAT THIS LESSON TEACHES

A scale shows how a length on paper stands for a real length, like $1 \text{ cm} = 1 \text{ m}$.

→ On a plan at $1 \text{ cm} = 1 \text{ m}$, a 6 m wall is drawn as 6 cm.

→ A 5 m wall is drawn as a 5 cm line.

MODEL THIS ON THE BOARD

DRAWING A 6 M WALL TO SCALE

- 1 Read the scale: $1 \text{ cm on paper} = 1 \text{ m in real life}$.
- 2 The real wall is **6 m** long.
- 3 Draw a line **6 cm** long on the paper.

ANSWER KEY

Scaffold: visual check on the page

Q1: 5 cm

Q2: $6 \text{ cm} \times 4 \text{ cm}$

a) Always — The scale multiplies every real metre by 1 cm.

b) Never — Different scales like $1 \text{ cm} = 2 \text{ m}$ can be chosen.

c) Always — The length on paper is the real length in metres.

d) Sometimes — It depends on the page size and chosen scale.

EXTENSION SHEET · STRETCH ANSWERS

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