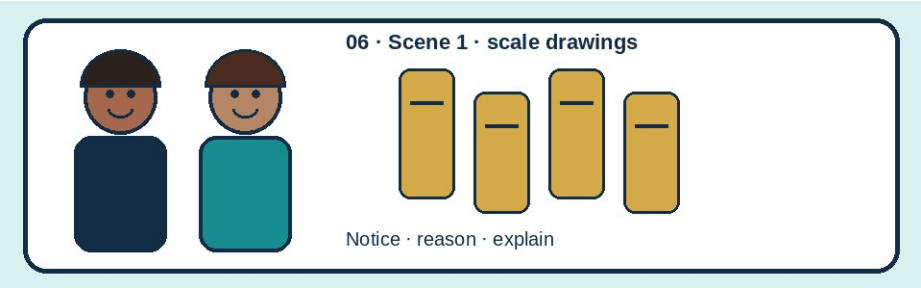
Scale Drawings for the Rooftop Garden

Grade 7 Mathematics | Guided notes



Goal and vocabulary

Use proportional relationships to compute actual lengths and verify whether a scale-drawing plan fits a rectangular rooftop.

Vocabulary	Meaning
scale	drawing length compared with actual length
proportion	two equal ratios
constraint	a limit the plan must meet

Source and model

A rooftop is 18 m by 12 m. A plan uses 1 cm = 3 m. The garden bed is drawn 4 cm by 2.5 cm, and a 1.5 m safety path must remain on every side.

Model: Identify evidence, apply the rule, and verify the claim.