

Unit 2 - Scale and Similar Triangles

Lesson 2.3 - Scale Diagrams

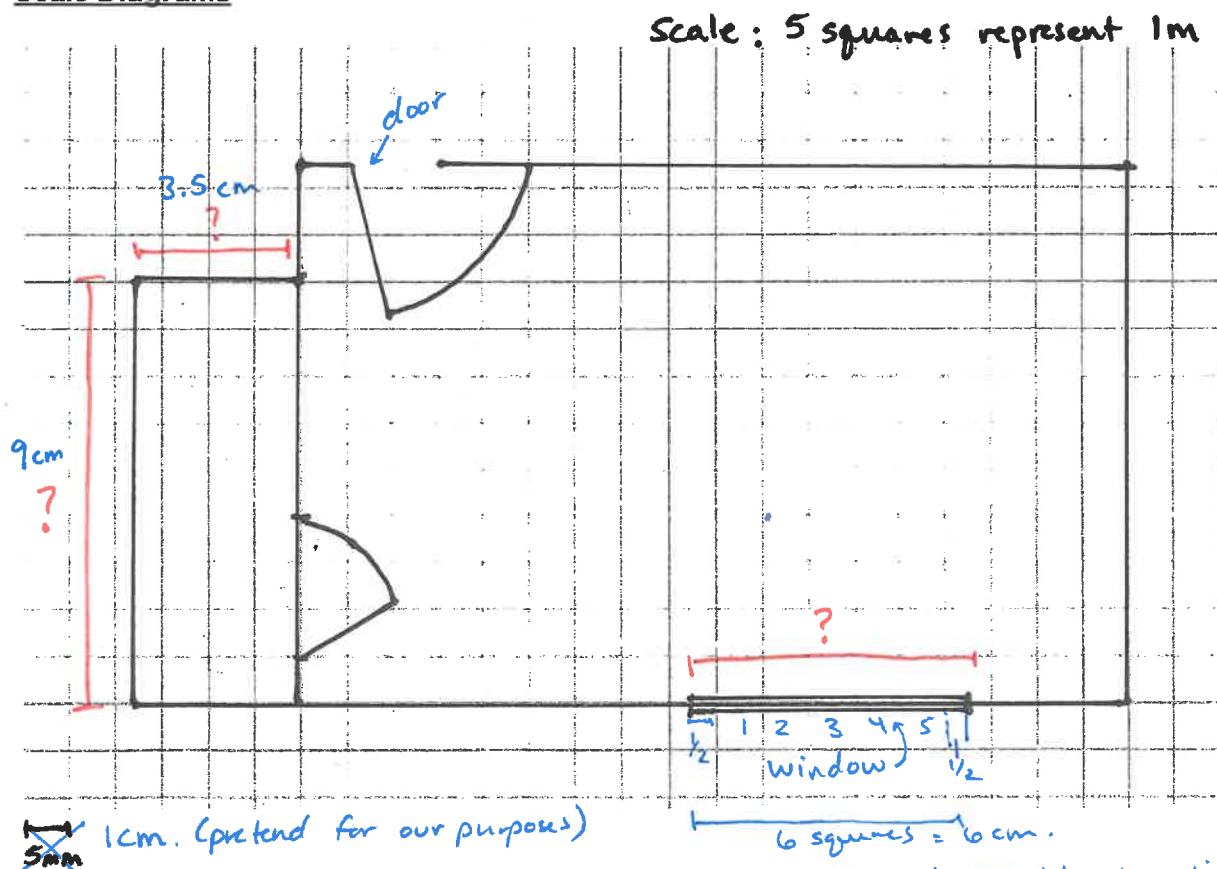
Learning Targets

- ☐ I can create a scale diagram to represent a place or object
- ☐ I can use scale diagrams to determine unknown measurements

How to Read Scale Diagrams

Notes	Questions, examples, diagrams, etc.
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Scale Diagrams



Choosing an appropriate scale

Scale = diagram : actual.

= 5 squares : 1m

= 5cm : 1m

= 5cm : 100cm

$\div 5$

$\div 5$

scale = 1 : 20

← need to convert to same units

Using scale to determine dimensions.

ex. Length of window ex. width of closet

Scale = 1 : 20

$\frac{1}{20} = \frac{6\text{cm}}{x}$

$x = 120\text{cm}$

or

1.2m

Scale = $\frac{1}{20} = \frac{3.5\text{cm}}{x}$

$x = 70\text{cm}$

or

0.7m

ex. Length of closet

Scale = $\frac{1}{20} = \frac{9\text{cm}}{x}$

$x = 180\text{cm}$

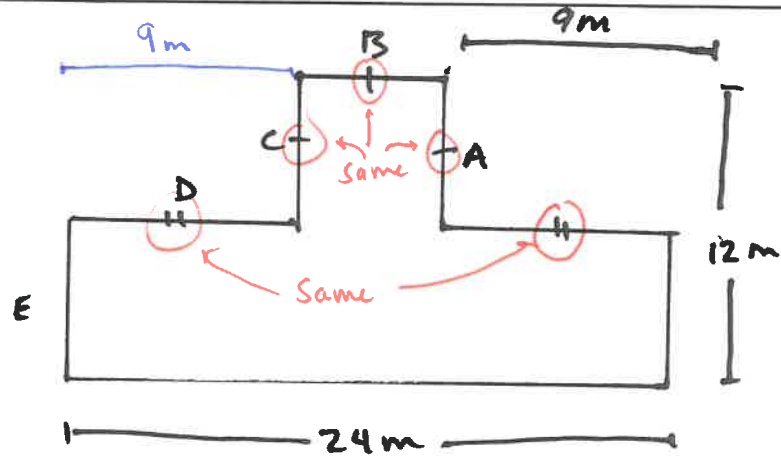
or

1.8m

Determining missing dimensions

Notes	Questions, examples, diagrams, etc.
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Find sides
A, B, C, D, E.



$$D = 9m.$$

$$B = 24m - 9m - 9m \\ = 6m.$$

$$B = C = A = 6m.$$

$$E = 12m - 6m$$

$$E = 6m$$