Review
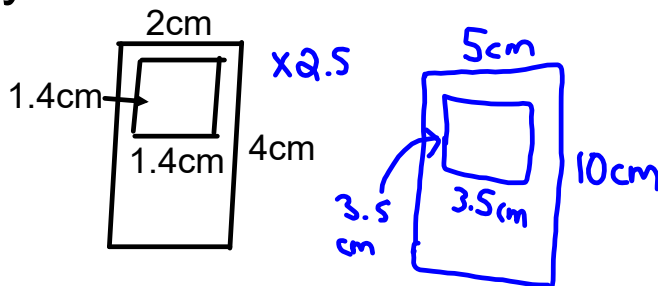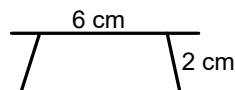
The actual length of a needle is 6 cm. The length of the needle on a scale diagram is 9 cm. What is the scale factor of the diagram?

$$S.F. = \frac{S}{O}$$
$$= \frac{9}{6}$$
$$= 1.5$$

Draw a diagram of this model of an mp3 player. Use a scale factor of 2.5.

2cm

1.4cm

1.4cm 4cm

×2.5

5cm

10cm

3.5 cm   3.5cm

Here is a scale diagram of a picnic table.

6 cm

2 cm
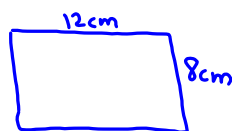
The actual length of the table is 180 cm with legs 60 cm. What is the scale factor?

$$S.F. = \frac{S}{O}$$ or $$S.F. = \frac{S}{O}$$
$$= \frac{2}{60}$$ $$= \frac{6}{180}$$
$$= 0.0\overline{3}$$ $$= 0.0\overline{3}$$

The rectangular playground has dimensions 24 m by 16 m. Draw a scale diagram of this playgound with a scale factor of (1/200).

$$length = 24m \times \frac{1}{200}$$ $$width = 16m \times \frac{1}{200}$$
$$= 0.12m$$ $$= 0.08m$$
$$= (12cm)$$ $$= (8cm)$$

12cm

8cm

Extra Practice Sheets 1 & 2