

Pages 44-45 — Scaling

1) $12 \times 8p = 96p$ (1 mark)

2) 1 cm represents 5 km, so
6 cm represents $6 \times 5 = 30$ km
(1 mark)

3) $800 \div 4 = 200$ g (1 mark)
 $200 \times 9 = 1800$ g (1 mark)

- 4) $30 = 5$ lots of 6 tennis balls,
so 30 tennis balls will cost
 $5 \times \text{£}9 = \text{£}45$ (1 mark)
- 5) The kitchen is 10 times wider
and longer than the model.
Length = $32 \times 10 = 320$ cm
= **3.2 m**
Width = $54 \times 10 = 540$ cm
= **5.4 m**
(1 mark for both correct)
- 6) Shape A is 1 square high.
Shape B is 3 squares high.
So the scale factor is $3 \div 1 = 3$
(1 mark)
- 7) 1 roll costs $\text{£}56 \div 7 = \text{£}8$, so
5 rolls would cost $\text{£}8 \times 5 = \text{£}40$
(1 mark)
- 8) 12 cm on the model represents
6 m in real life. So 2 cm on the
model represents 1 m in real life.
So 8 m in real life is 8×2
= **16 cm** on the model. (1 mark)