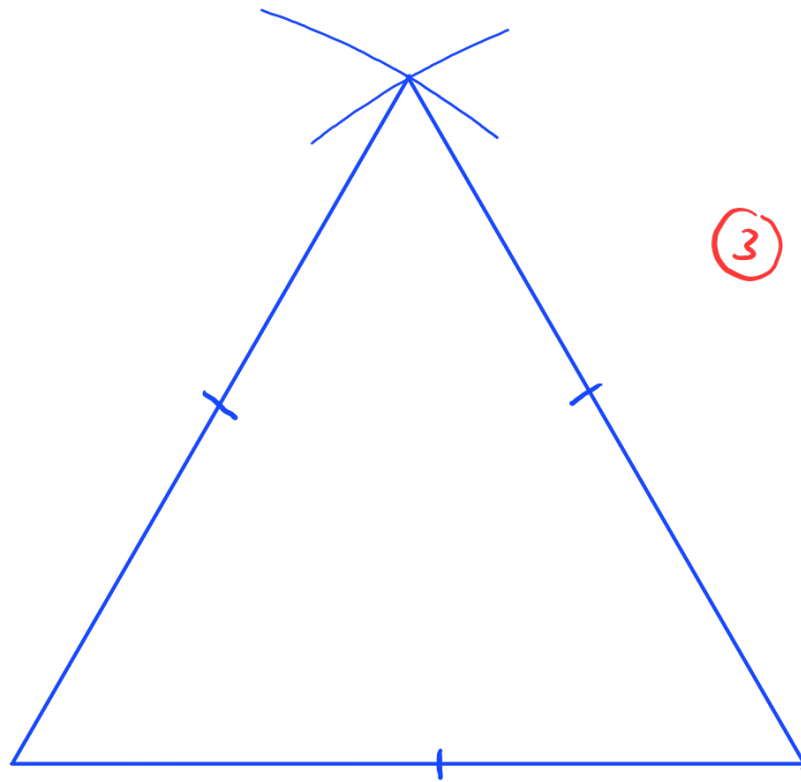**1** An equilateral triangle has side length 16 metres.

Using ruler and compasses only, construct a scale drawing of the triangle.

Use the scale 1 centimetre represents 2 metres.

[3 marks]

Scale: 1 cm represents 2 m

2   A map has a scale of   1 : 5000

How many **metres** are represented by a length of 4.5 cm on the map?

[2 marks]

$4.5 \times 5000 = 22\,500$ cm

$(22500 \div 100)$ m

$= 225$ m

Answer   225   m

3   A map has a scale of $1 : 20\,000$

Two churches are 15 cm apart on the map.

$\div 100$ $\div 1000$

cm   m   km

Work out the actual distance between them.

Give your answer in **kilometres**.

[3 marks]

Distance between the 2 churches : $20\,000 \times 15$ cm

$= 300\,000$ cm ✓ ②

Distance in km : $300\,000$ cm $\times \dfrac{1\ m}{100\ cm} \times \dfrac{1\ km}{1000\ m}$

$= 3$ km ✓ ①

Answer   3   km