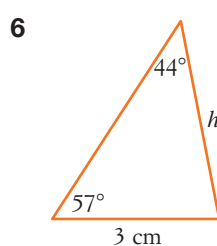
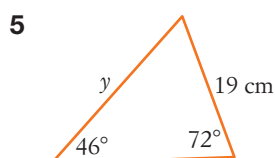
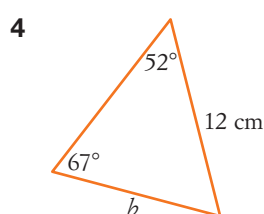
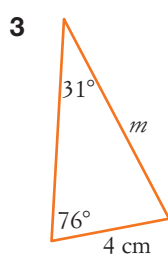
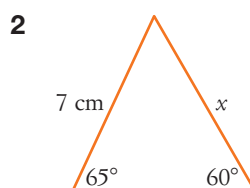
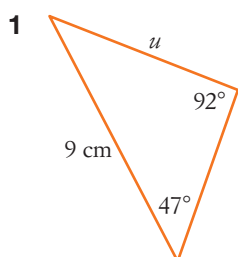
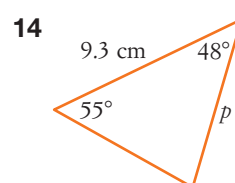
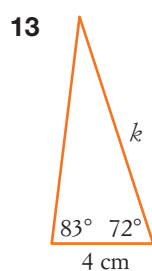
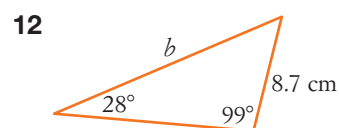
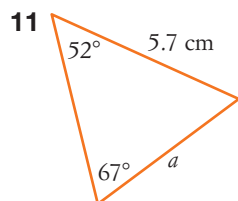
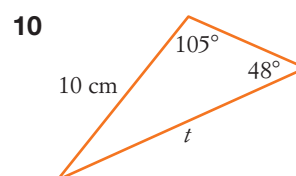
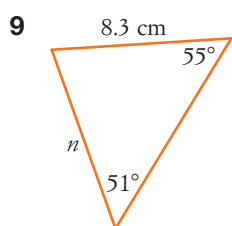
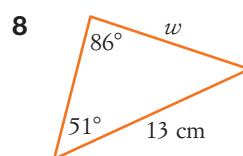
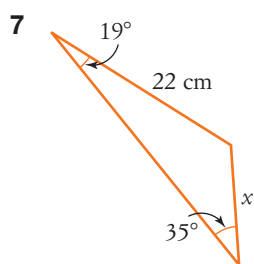


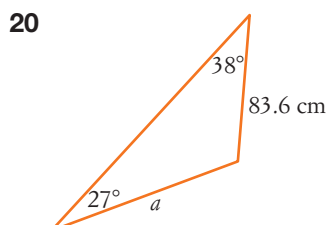
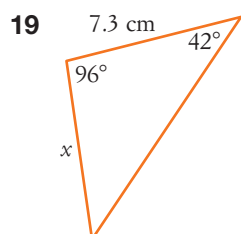
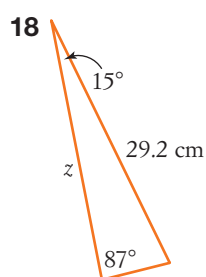
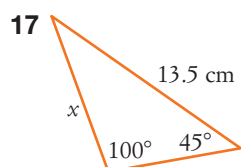
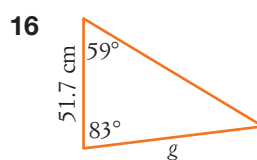
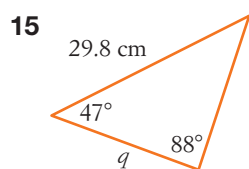
WORKSHEET

The sine rule – Finding lengths of sides

Use the sine rule to find the length of the missing side in each triangle. Give your answers to one decimal place.







21 In $\triangle DEF$, $\angle D = 65^\circ$, $\angle F = 57^\circ$ and $f = 42$ mm.

i Draw a sketch of $\triangle DEF$, showing all the information given.

ii Find d , giving your answer to one decimal place.

22 In $\triangle ABC$, $c = 8.3$ cm, $\angle B = 95^\circ$ and $\angle C = 33^\circ$

i Draw a sketch of $\triangle ABC$, showing all the information given.

ii Find b , giving your answer to one decimal place.

23 In $\triangle MNP$, $\angle M = 18^\circ$, $\angle P = 24^\circ$ and $m = 17.3$ cm.

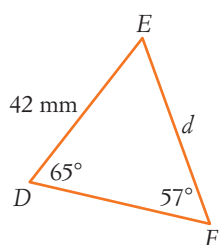
i Draw a sketch of $\triangle MNP$, showing all the information given.

ii Find p , giving your answer to one decimal place.

Answers

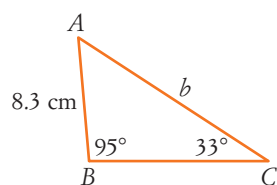
- 1 6.6 cm
- 2 7.3 cm
- 3 7.5 cm
- 4 10.3 cm
- 5 25.1 cm
- 6 3.6 cm
- 7 12.5 cm
- 8 10.1 cm
- 9 8.7 cm
- 10 13.0 cm
- 11 4.9 cm
- 12 18.3 cm
- 13 9.4 cm
- 14 7.8 cm
- 15 21.1 cm
- 16 72.0 cm
- 17 9.7 cm
- 18 28.6 cm
- 19 7.3 cm
- 20 113.4 cm

21 i



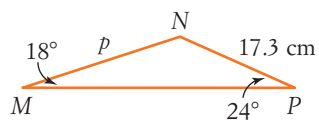
ii 45.4 mm

22 i



ii 15.2 cm

23 i



ii 22.8 cm