1 In a **right-angled** triangle

smallest angle : largest angle = 2 : 5

Work out the three angles of the triangle.

[4 marks]

$180^\circ - 90^\circ = 90^\circ$

$90^\circ \div 5 = 18^\circ$ (1)

$2 \times 18^\circ = 36^\circ$ (1)

$90^\circ - 36^\circ = 54^\circ$

(1)

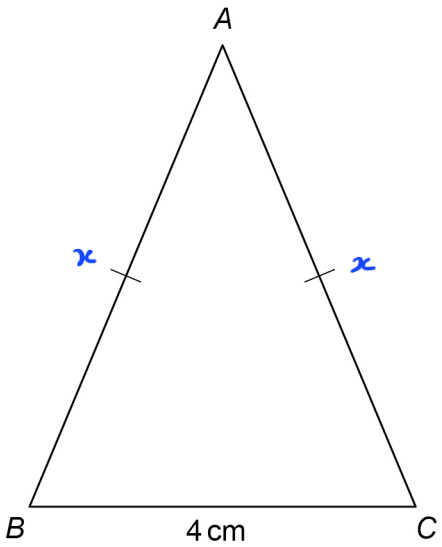
90 degrees

54 (1) degrees

36 degrees

2 In this isosceles triangle,

$AB = AC$



Not drawn accurately

The perimeter of the triangle is 22 cm

Work out the length of AB.

[3 marks]

$2x + 4 = 22$

$2x = 18$ (1)

$x = \frac{18}{2}$ (1)

$x = 9$ (1)

Answer 9 cm

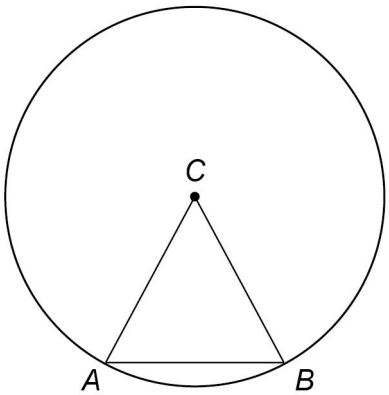
3 For each statement, tick the correct box.

[3 marks]

	Always true	Sometimes true	Never true
One of the three angles of a triangle is 90°	☐	☑ (1)	☐
One of the three angles of a triangle is obtuse	☐	☑ (1)	☐
One of the three angles of a triangle is reflex	☐	☐	☑ (1)

4 *A* and *B* are points on a circle.

C is the centre of the circle.



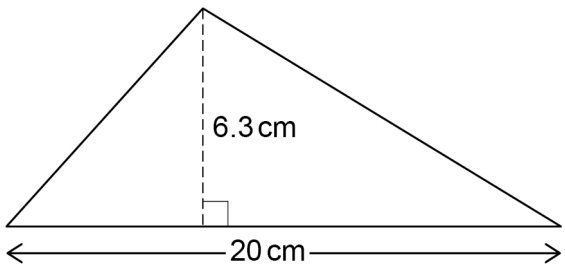
Not drawn accurately

Tick **one** box for each statement.

[3 marks]

	Definitely true	**Might be true**	**Cannot be true**
Line *AB* is a tangent to the circle	☐	☐	☑ (1)
AC is an arc of the circle	☐	☐	☑ (1)
Triangle *ABC* is equilateral	☐	☑ (1)	☐

5



Not drawn accurately

Work out the area of this triangle.

Area of triangle = $\frac{1}{2}$ x base x height

[2 marks]

$\frac{1}{2} \times \overset{10}{\cancel{20}} \times 6.3$ ✓1

$= 10 \times 6.3$

$= 63\ cm^2$ ✓1

Answer 63 cm^2