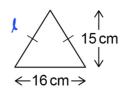
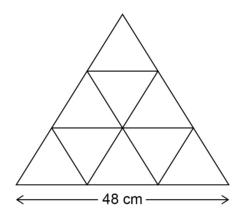
1 An isosceles triangle has base 16 cm and perpendicular height 15 cm



Not drawn accurately

Some of these triangles are used to make a large triangle.



Not drawn accurately

Work out the perimeter of the large triangle.

[4 marks]

By using Pythagoras' Theorem:
$$L = \sqrt{15^2 + 8^2}$$

$$= \sqrt{225 + 64}$$

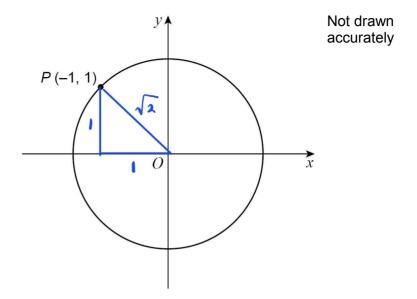
$$= \sqrt{289}$$

$$= 17$$

Answer 150

cm

2 P(-1, 1) is a point on the circle, centre O, radius r.



Work out the value of r.

Circle your answer.

[1 mark]

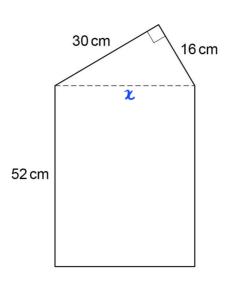
1

2



 $2\sqrt{2}$

3 A shape is made by joining a right-angled triangle to a rectangle.



Not drawn accurately

[5 marks]

 $\,\mathrm{cm}^2$

Work out the area of the shape.

$$\chi^2 = 30^2 + 16^2$$

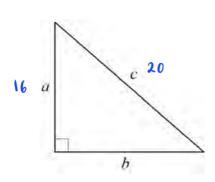
$$\chi = \sqrt{1156} = 34 \text{ } \bigcirc$$

Area of triangle:
$$\frac{1}{2} \times 30 \times 16 = 240$$

Area of rectangle:
$$52 \times 34 = 1768$$

Answer 2008

4



Not drawn accurately

In this right-angled triangle,

$$a = 16 \,\mathrm{cm}$$

$$a: c = 4:5$$

Work out the area of the triangle.

[4 marks]

$$C = \frac{5}{4} \times 16 = 20$$



Area =
$$\frac{1}{2} \times 16 \times 12$$

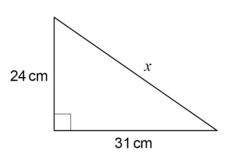


Answer

96

cm²

5



Not drawn accurately

Use Pythagoras' theorem to work out the value of x.

Give your answer as a decimal.

[3 marks]

Answer

39.2

cm