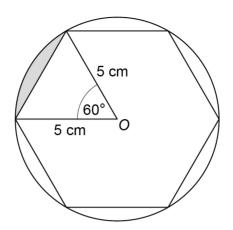
1 The vertices of a regular hexagon lie on a circle with centre O and radius 5 cm



Not drawn accurately

Work out the shaded area.

Give your answer in the form

Answer

$$\frac{a\pi - b\sqrt{c}}{12}$$

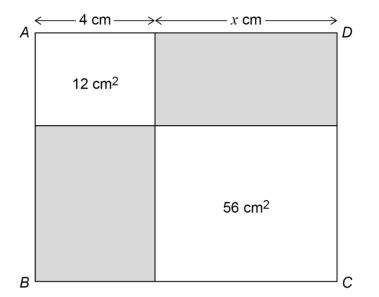
where a, b and c are integers.

 $\,\mathrm{cm}^2$

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2 Rectangle ABCD is split into four smaller rectangles.

Two of the smaller rectangles are shaded.



Not drawn accurately

4: x = 1:2

For rectangle *ABCD*, work out the ratio shaded area : unshaded area Give your answer in its simplest form.

[4 marks]

Answer _____ : _____ :