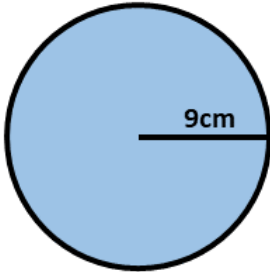This is level 3; find the area of a circle given either the radius or diameter. Give your answers correct to three [significant figures](). You can earn a trophy if you get at least 7 correct. The diagrams are not drawn to scale.

9cm

The radius of this circle is 9cm.
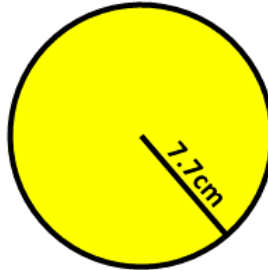
Calculate the area of the circle in square centimetres.

Don't forget to round off your answer to three significant figures.

254 cm² ✔

....

The radius of this second circle is 7.7cm.

Calculate the area of the circle.

7.7cm

186 cm² ✔
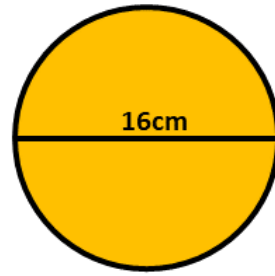
....

4.9cm

The radius if this circle is 4.9cm.

Calculate the area of the circle.

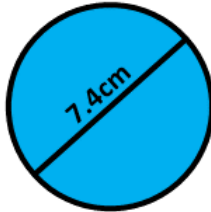**75.4** cm² ✔

....

It is the diameter that is given for this circle, not the radius. Calculate the area of the circle if its diameter is 16cm.
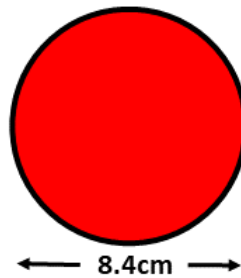
16cm

201 cm² ✓

....

The diameter of this circle is 7.4cm.

Calculate the area of the circle.

7.4cm

43.0 cm² ✓

....

Calculate the area of this circle.

← 8.4cm →

55.4 cm² ✓

....
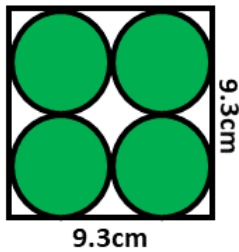
9.3cm

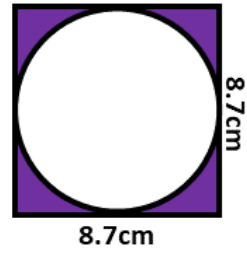Four identical circles fit exactly inside a square as shown in the diagram. Each side of the square is 9.3cm.

Calculate the total area of all four circles.

9.3cm

67.9 cm² ✓

....

A circle is cut out of a square. Each side of the square is 8.7cm.

Calculate the area of the remaining purple area when the circle has been removed.

8.7cm

8.7cm

16.3 cm² ✔

....

The diameter of a circle is 6.6cm longer than its radius.

Calculate the area of the circle.

137 cm² ✔

....

The circumference of a circle is 32.8cm.

Calculate the area of the circle.

85.7 cm² ✔

....