This is level 4; the areas of circles are given, find either the radius, diameter or circumference. 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.

Calculate the radius of a circle if the area is 52.3cm^2.

4.08 cm ✓

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Calculate the radius of a circle if the area is 59.2cm^2.

4.34 cm ✓

.....

Calculate the diameter of a circle if the area is 66.2cm^2.

9.18 cm ✓

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Calculate the diameter of a circle if the area is 68.9cm^2.

9.37 cm ✓

.....

Calculate the circumference of a circle if the area is 70.8cm^2.

29.8 cm ✓

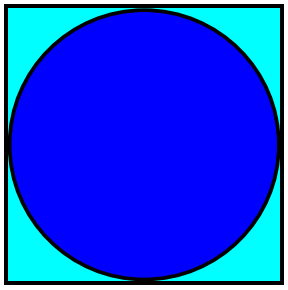
.....

Calculate the circumference of a circle if the area is 76.2cm^2.

30.9 cm ✓

.....

A circle is drawn inside a square so its circumference touches each of the four sides of the square. If the area of the circle is 77.4cm^2 calculate the length of the sides of the square.



9.93 cm ✓

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A different circle is drawn inside a square so its circumference touches each of the four sides of the square. If the area of the circle is 84cm^2 calculate the area of the square.

107 cm^2 ✓

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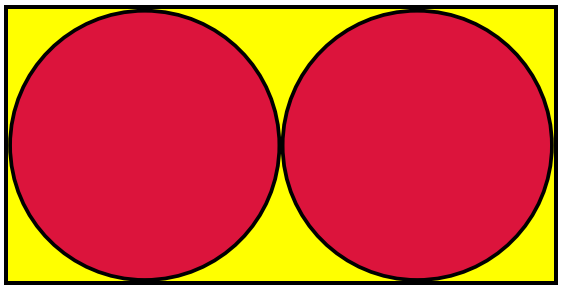
Two circles are drawn inside a rectangle so their circumferences touch each other and three sides of the rectangle. If the areas of the circles are 2.5cm^2 each, calculate the area of the rectangle.



6.37 cm ✓

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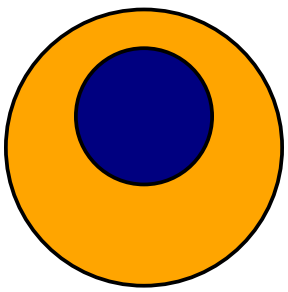
The area of the large circle is 16.9cm^2 and area of the small circle is 7.5cm^2. How many times larger is the radius of the large circle than the radius of the small circle?



1.50 ✓

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