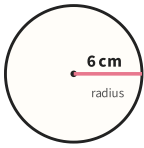


Area of a Circle



1

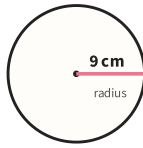
Work out the area of this circle.
Give your answer to 1 decimal place.



$r =$ 6 cm
 $r^2 =$ $6^2 = 36$
 $A = \pi \times r^2 =$ _____
Answer _____

2

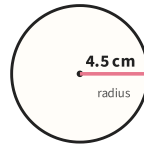
Work out the area of this circle.
Give your answer to 1 decimal place.



$r =$ 9 cm
 $r^2 =$ _____
 $A = \pi \times r^2 =$ _____
Answer _____

3

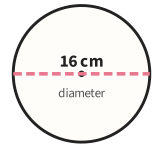
Work out the area of this circle.
Give your answer to 1 decimal place.



$r =$ 4.5 cm
 $r^2 =$ _____
 $A = \pi \times r^2 =$ _____
Answer _____

4

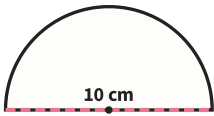
Work out the area of this circle.
Give your answer to 1 decimal place.



$r = 16 \div 2 =$ _____
 $r^2 =$ _____
 $A = \pi \times r^2 =$ _____
Answer _____

5

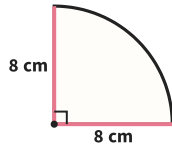
Work out the area of this semicircle.
Give your answer to 1 decimal place.



Answer _____

6

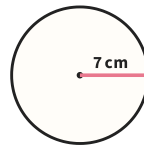
Work out the area of this quarter circle.
Give your answer to 1 decimal place.



Answer _____

7

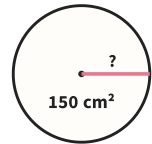
Work out the area of this circle.
Give your answer in terms of π .



Answer _____

8

The area of this circle is 150 cm^2 .
Work out its radius. Give your answer to 1 decimal place.



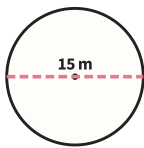
Answer _____

Area of a Circle *further practice*



9

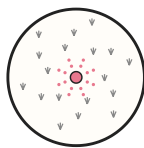
A circular pond has a diameter of 15 m.
Work out its area. Give your answer to 1 decimal place.



Answer _____

10

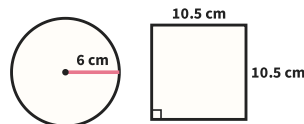
A sprinkler in the middle of a lawn turns round and waters the grass up to 3.5 m away. What area of grass does it water? Give your answer to 1 decimal place.



Answer _____

11

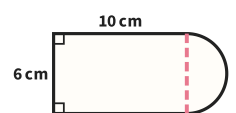
Which has the bigger area, the circle or the square? Show how you know.



Answer _____

12

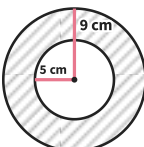
This shape is a rectangle with a semicircle on one end. Work out its area. Give your answer to 1 decimal place.



Answer _____

13

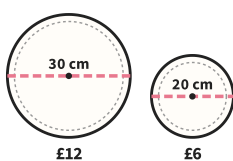
The shaded ring is between two circles with the same centre. Work out the shaded area. Give your answer to 1 decimal place.



Answer _____

14

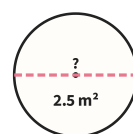
A pizza shop sells two round pizzas. Which one gives you more pizza for each £1? Show how you know.



Answer _____

15

A round rug has an area of 2.5 m^2 . Work out its diameter. Give your answer to 1 decimal place.



Answer _____

16

Is Sam right? Use a circle of radius 3 cm and a circle of radius 6 cm to explain.

Sam
If I double the radius of a circle, its area doubles too.

Answer _____