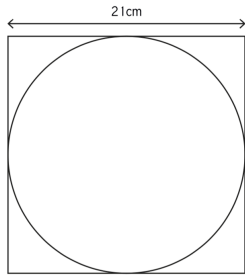
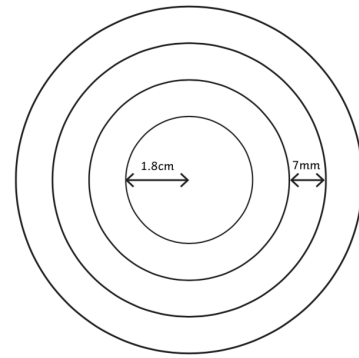


This design is made up of a circle inside a square.
Calculate the radius of the circle.



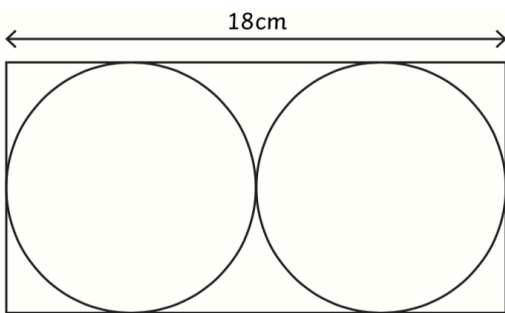
Radius =

Here are 4 concentric circles. The radius of the smallest circle is 1.8cm. The gap between the rest of the circles is always 7mm. Calculate the diameter of the largest circle.



Diameter = cm

This design is made up of identical circles and a rectangle. Calculate the radius of the circles.



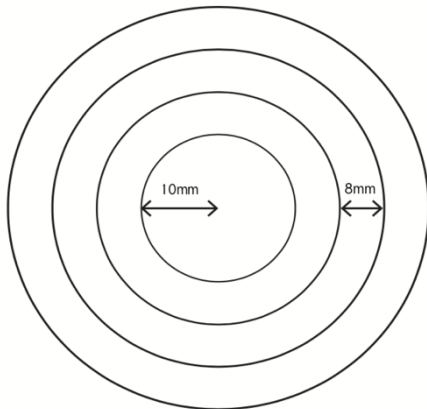
Radius =

The scooter travelled from the tree to the pond, turning its wheels 25 times. The circumference of the bicycle wheel is 20cm. Calculate the distance from the tree to the pond.



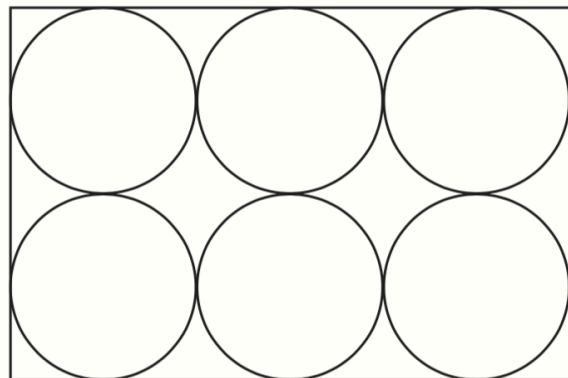
Distance = m

Calculate the diameter of the largest circle.



Diameter =

This design is made up of six circles, each with a radius of 14cm, inside a rectangle. Calculate the length and width of the rectangle.



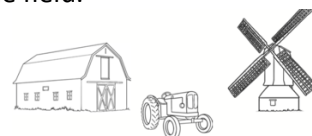
Length = cm. Width = cm

This design is made up of four intersecting circles. Each circle has a diameter of 9cm. Calculate the length, width and area of the rectangle.



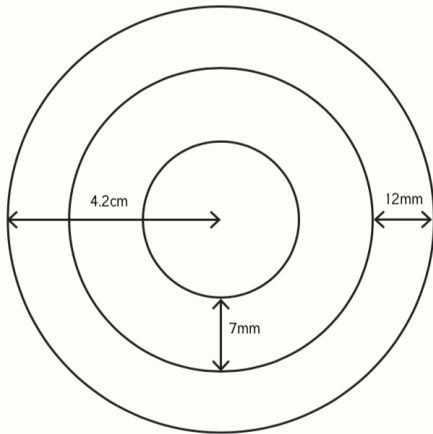
Width = Length = Area =

The tractor travelled from the barn to the windmill turning its wheels 75 times. The circumference of the big tractor wheel is 2.05m. Calculate the distance from the farm to the field.



Distance =

Calculate the diameter of the smallest circle.



Diameter = 4.6cm

Alex says:

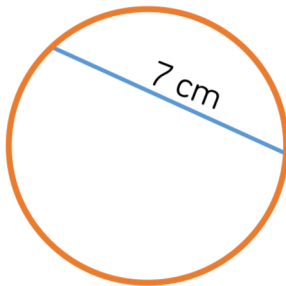


The bigger the radius of a circle, the bigger the diameter.

Do you agree? Explain your reasoning.

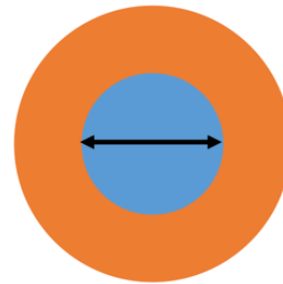
Spot the mistake!

Tommy has measured and labelled the diameter of the circle below. He thinks that the radius of this circle will be 3.5 cm.



Is Tommy right? Explain why.

Here are 2 circles. Circle A is blue; Circle B is orange. The diameter of Circle A is $\frac{3}{4}$ the diameter of Circle B.



If the diameter of Circle B is 12 cm, what is the diameter of Circle A?

If the diameter of Circle A is 12 cm, what is the radius of Circle B?

If the diameter of Circle B is 6 cm, what is the diameter of Circle A?

If the diameter of Circle A is 6 cm, what is the radius of Circle B?