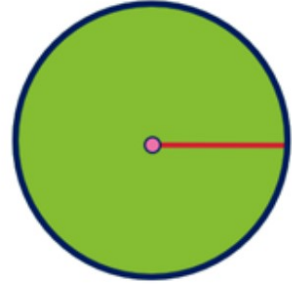
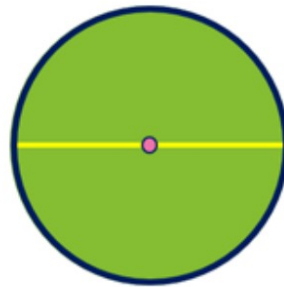
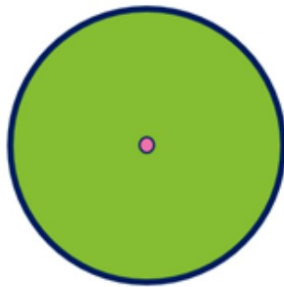
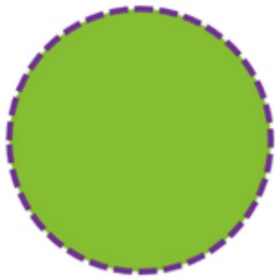


TLHT illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius



Match the name of the part of the circle to the correct diagram.



Diameter

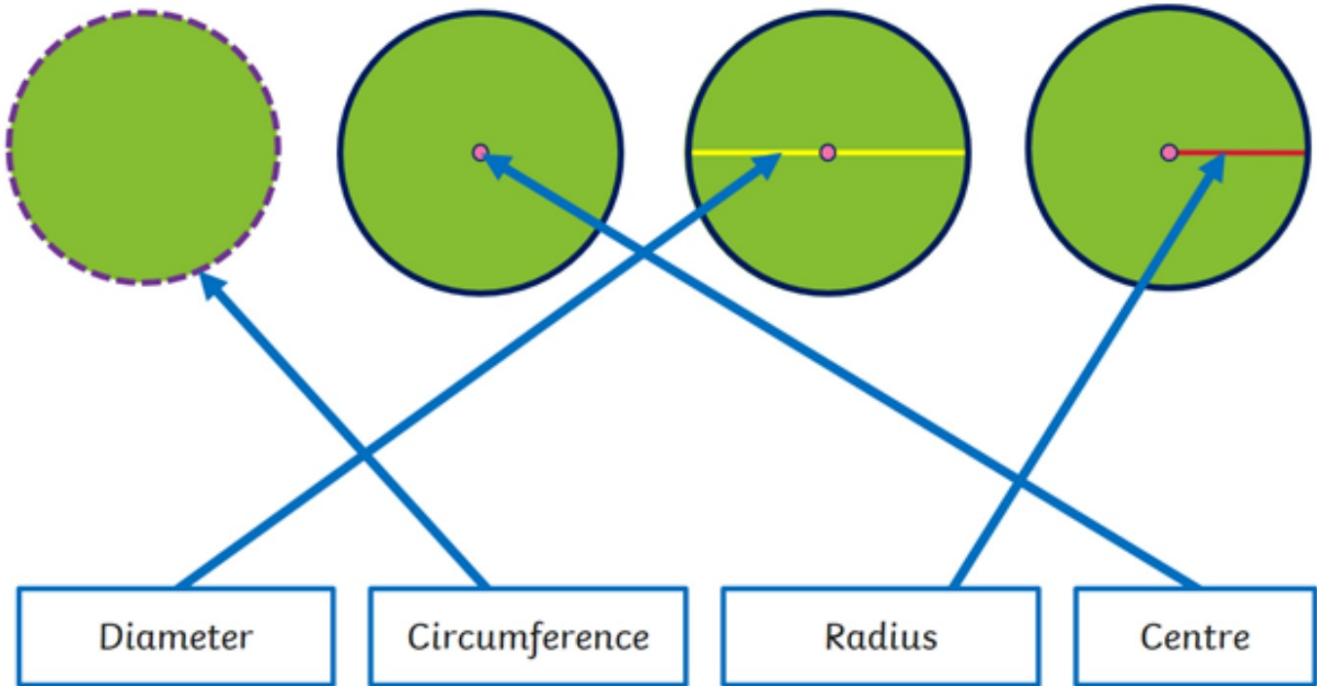
Circumference

Radius

Centre



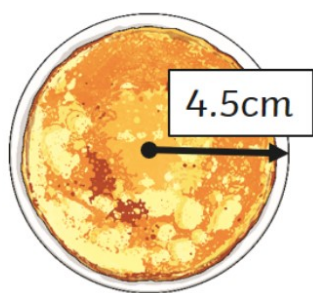
Match the name of the part of the circle to the correct diagram.





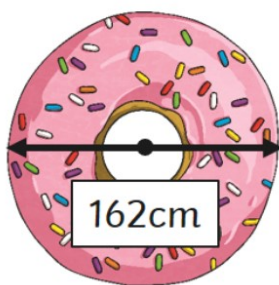
Find the diameter and radius of these objects:

Not to scale



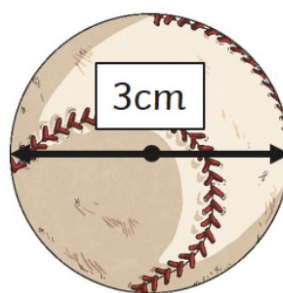
Radius:

Diameter:



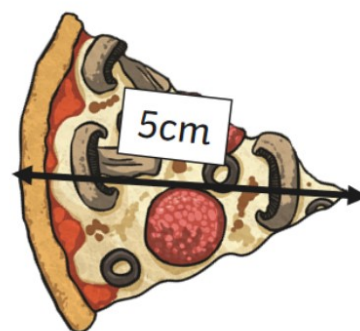
Radius:

Diameter:



Radius:

Diameter:



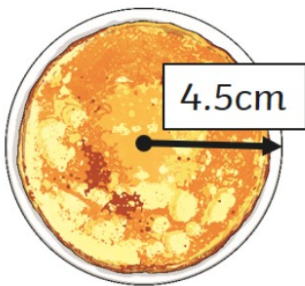
Radius:

Diameter:



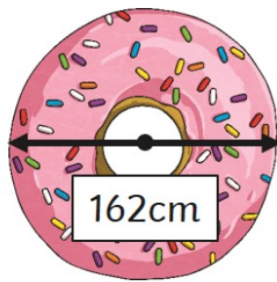
Find the diameter and radius of these objects:

Not to scale



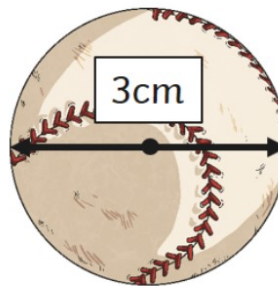
Radius: **4.5cm**

Diameter: **9cm**



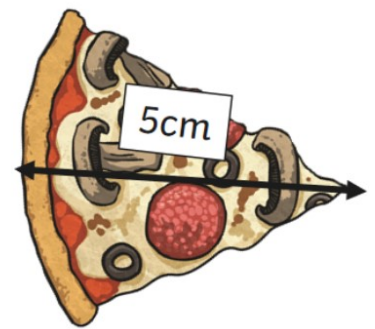
Radius: **81cm**

Diameter: **162cm**



Radius: **1.5cm**

Diameter: **3cm**



Radius: **5cm**

Diameter: **10cm**



Find the missing measurements in the table.

Radius	Diameter
4cm	
	11cm
6.5cm	





Find the missing measurements in the table.

Radius	Diameter
4cm	8cm
5.5cm	11cm
6.5cm	13cm



## Circles

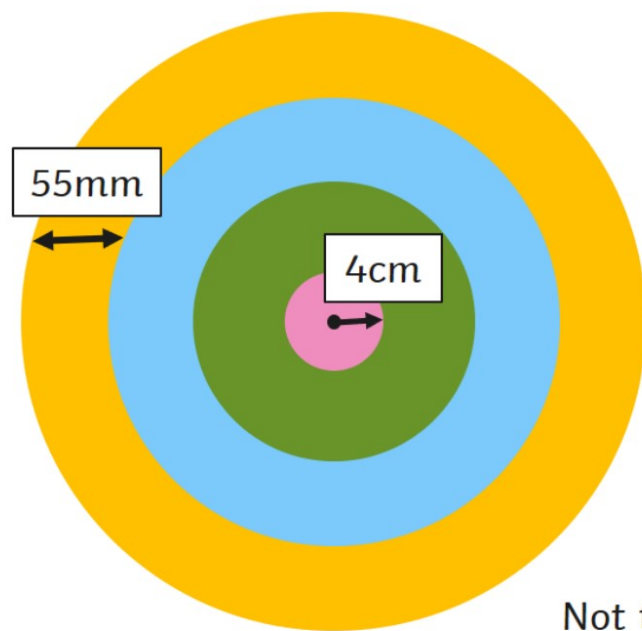
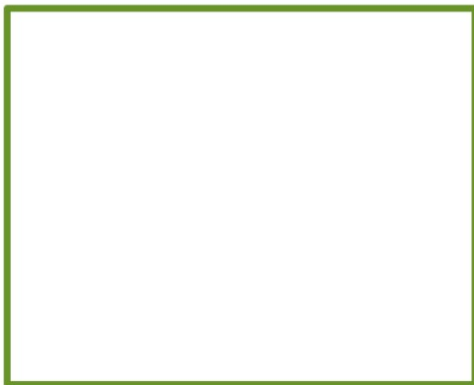
## Deeper



Here are 4 concentric circles. The radius of the smallest circle is 4cm. The gap between the remaining circles is 55mm.

What is the diameter of the largest circle?

Concentric circles are circles with a common centre.



Not to scale





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What is the diameter of the largest circle?

Concentric circles are circles with a common centre.

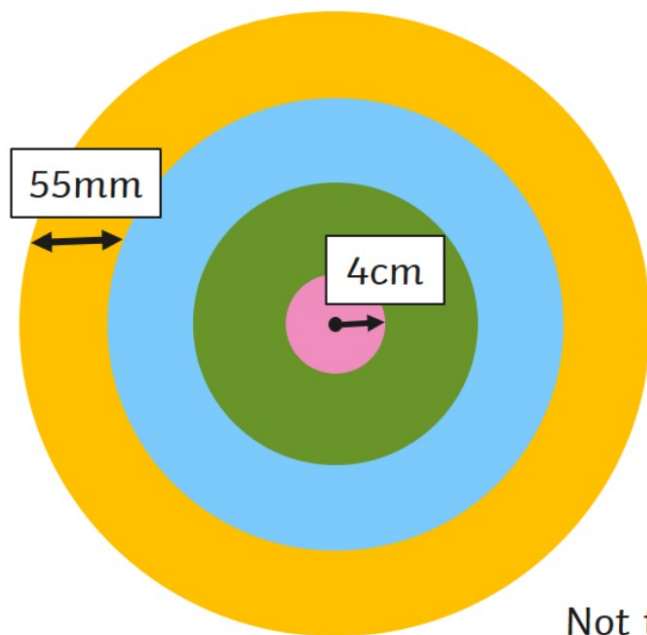
$$55\text{mm} = 5.5 \text{ cm}$$

$$5.5\text{cm} \times 6 = 33\text{cm}$$

$$4\text{cm} \times 2 = 8\text{cm}$$

$$33\text{cm} + 8\text{cm} = 41\text{cm}$$

The diameter of the largest circle is 41cm.



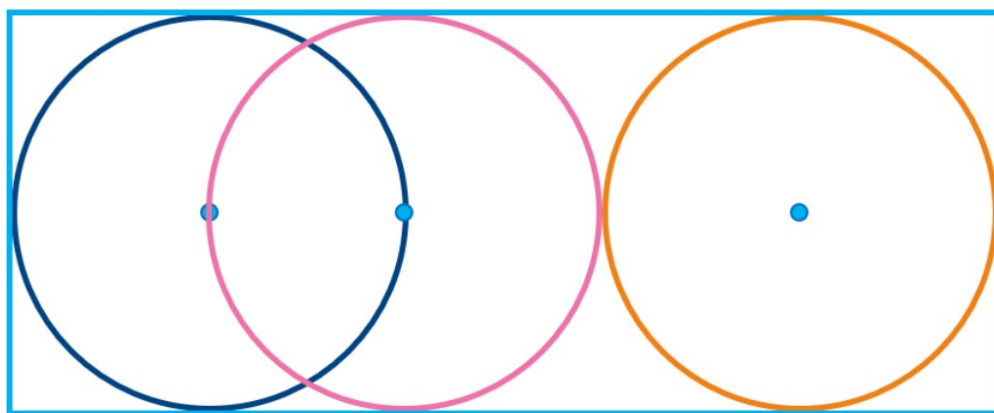
Not to scale



This design is made from a rectangle and three congruent circles, two of which overlap. The radius of each circle is 7cm.

What is the length of the rectangle?

Congruent means identical.



Not to scale

## Circles

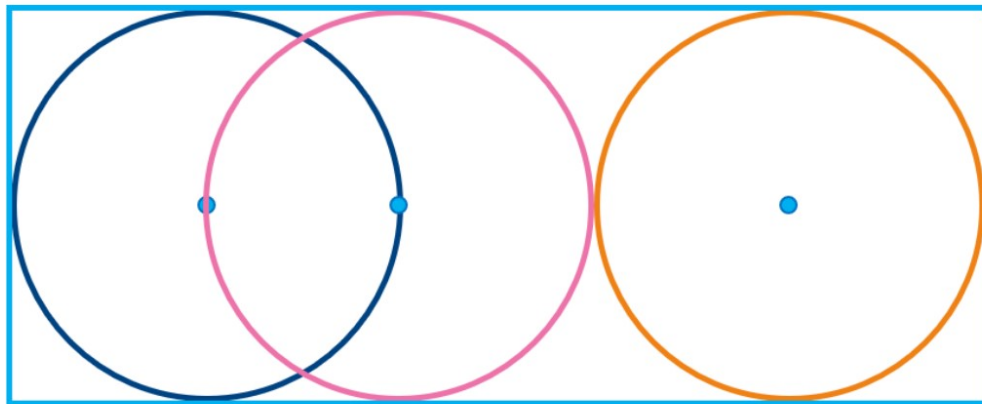
## Deepest



This design is made from a rectangle and three congruent circles, two of which overlap. The radius of each circle is 7cm.

What is the length of the rectangle?

Congruent means identical.



Not to scale

$$5 \times 7\text{cm} = 35\text{cm}$$

The length of the rectangle is 35cm.

<https://www.youtube.com/watch?v=02XRad7s1lo>

How to draw a circle using a compass!