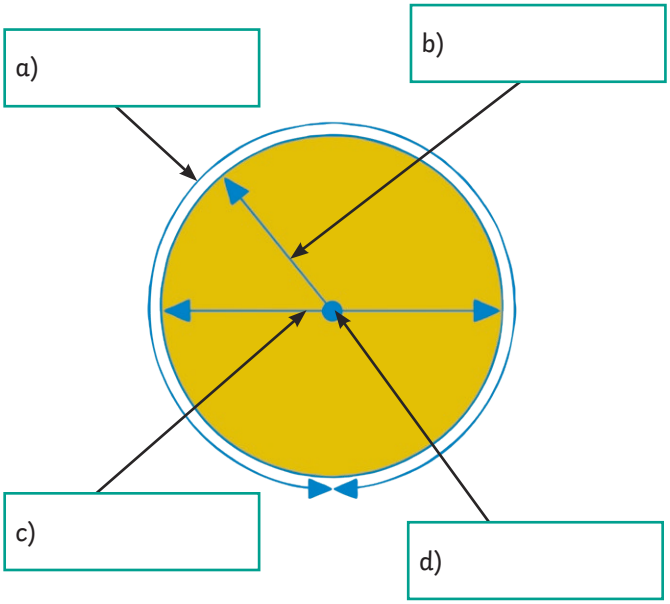
1) Use the words below to complete the labels to show the parts of a circle.



circumference | centre | radius | diameter



2) Copy and complete these sentences.

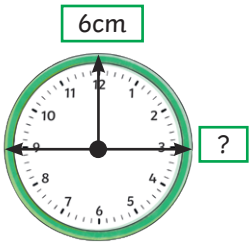
The diameter of a circle is _____ the length of the radius.

The radius of a circle is _____ the length of the diameter.

3) Find the diameter and radius of these objects.

Not to scale

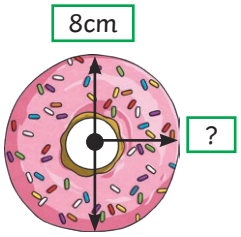
a)



Radius: _____

Diameter: _____

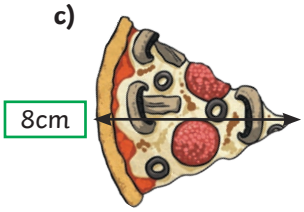
b)



Radius: _____

Diameter: _____

c)



Radius: _____

Diameter: _____

4) Copy and complete the table.

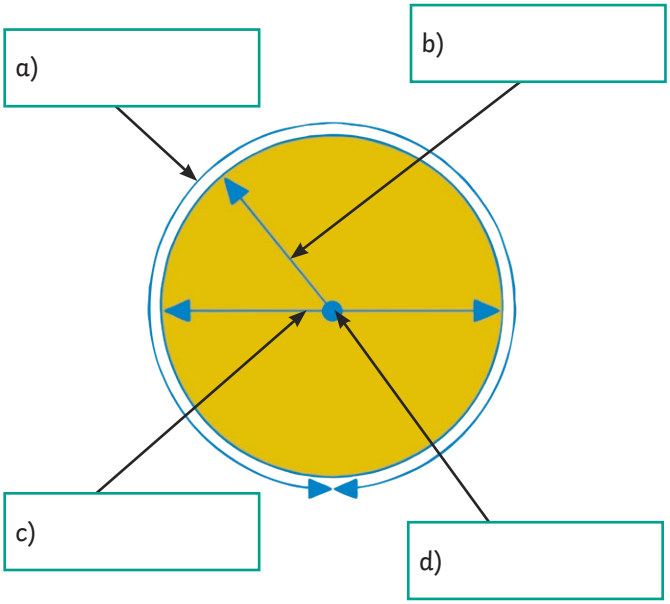
Radius	Diameter
5.5cm	
	13cm
3.75cm	

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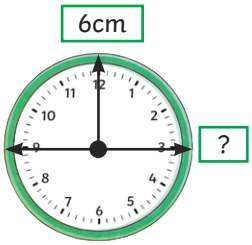
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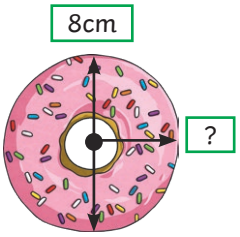
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Diameter: _____

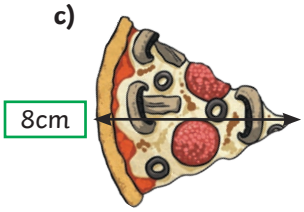
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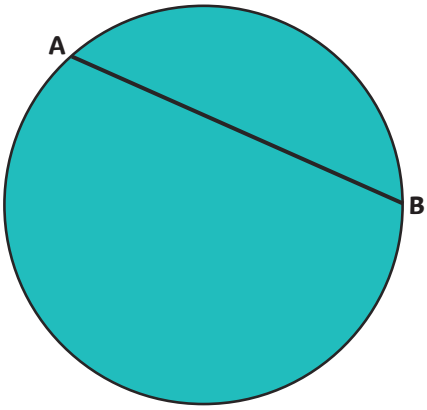
twinkl.com

1) Jack says this is the diameter of the circle.
Kia says this is the radius of the circle.

Who do you agree with?
Explain your answer.



Jack





Kia

2) True or false? Prove it!

a) The radius of a circle is twice its diameter.

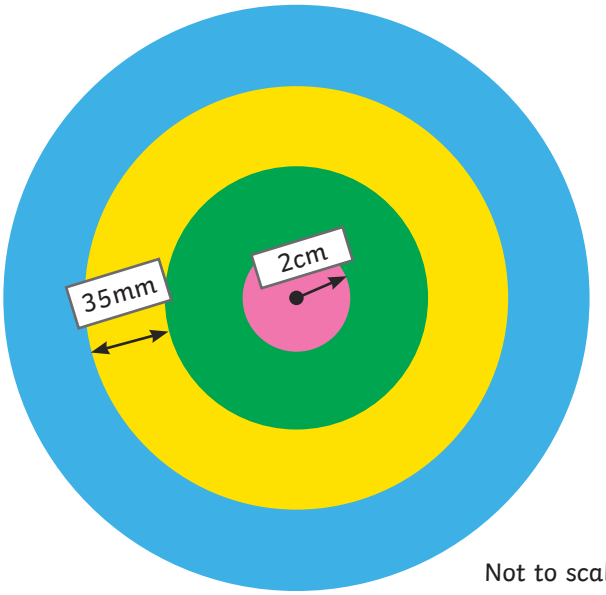
b) A circle with a diameter of 7cm has a radius of 3.5cm.

c) The radius of a circle can be bigger than its diameter.

3) The diameter of circle A is $\frac{1}{3}$ of the radius of circle B. Find 3 examples of their diameters that make this statement true.

4) Here are 4 concentric circles. The radius of the smallest circle is 2cm. The gap between the remaining circles is 35mm.
What is the diameter of the largest circle?
Show how you know.

Concentric circles are circles with a common centre.



Not to scale

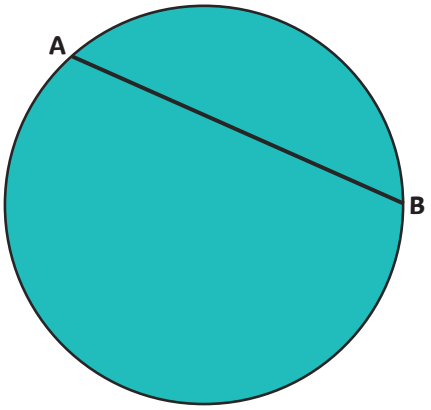
twinkl.com

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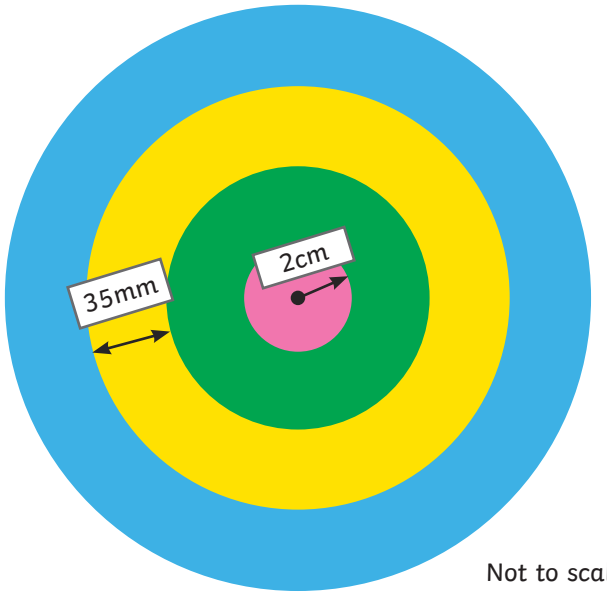
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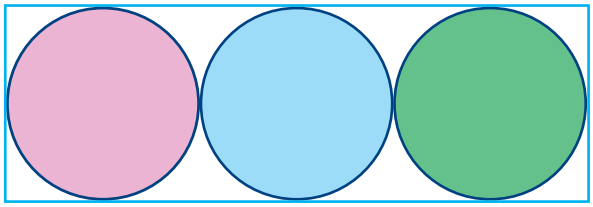
Not to scale

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1) This design is made from a rectangle and three congruent circles.

The length of the rectangle is 15cm.

What is the radius of each circle?
Explain your answer.



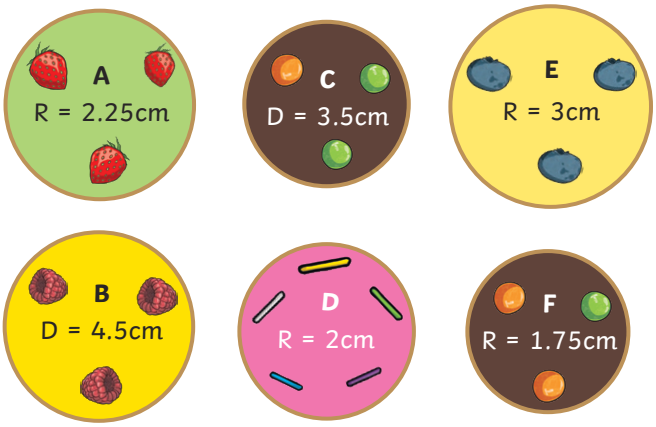
Not to scale

2) Tayla is packing cakes into boxes, ready to send out to the shops.

Here are her cakes:



Tayla



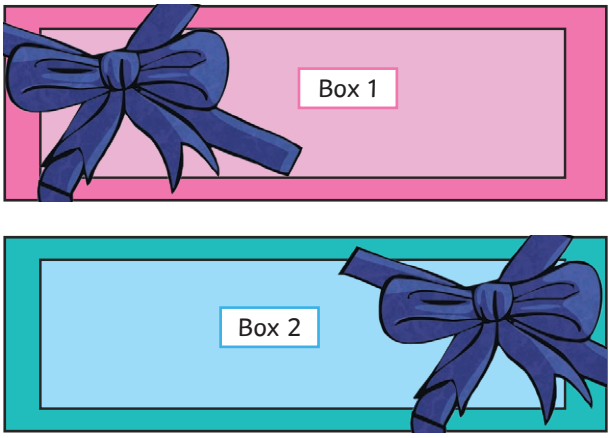
Not to scale

R - radius D - diameter

They must be packed in a row, next to each other.

They must all be packed into these 2 boxes which each have a length of 13cm.

a) How should Tayla arrange them?



Not to scale

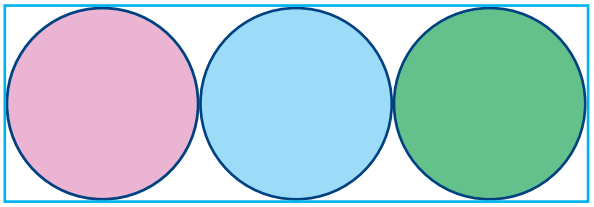
b) Tayla now wants to pack them in 2 rows in one box. The length of the box is 13cm. What is the minimum width it could be?

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Explain your answer.



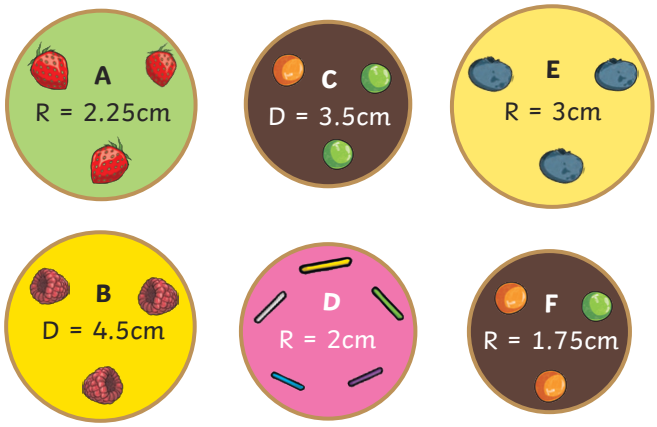
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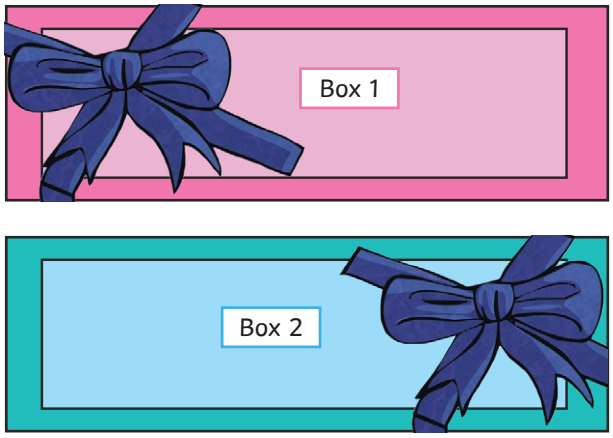
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Not to scale

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