

Year 6 – Summer Block 3 – Statistics

dy 22nd June 2020!

Part 3 - Reasoning

WALT Understand Circles

*See my notes in green to
help you.*

Reasoning 1

Jemima says,



If the radius of a circle is 95.5mm then the diameter must be 190mm.

Is she correct?

Explain your answer.

Reasoning 1

Jemima says,



If the radius of a circle is 95.5mm then the diameter must be 190mm.

Is she correct?

Explain your answer.

Jemima is not correct because...

Reasoning 1

Jemima says,



If the radius of a circle is 95.5mm then the diameter must be 190mm.

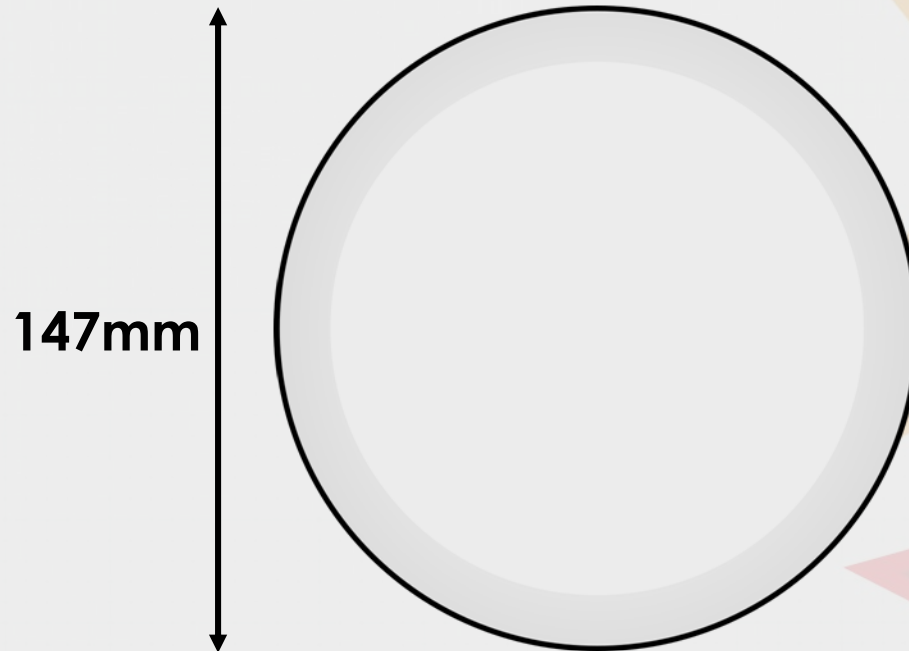
Is she correct?

Explain your answer.

Jemima is not correct because the diameter is always double the length of the radius, so it would be 191mm.

Reasoning 2

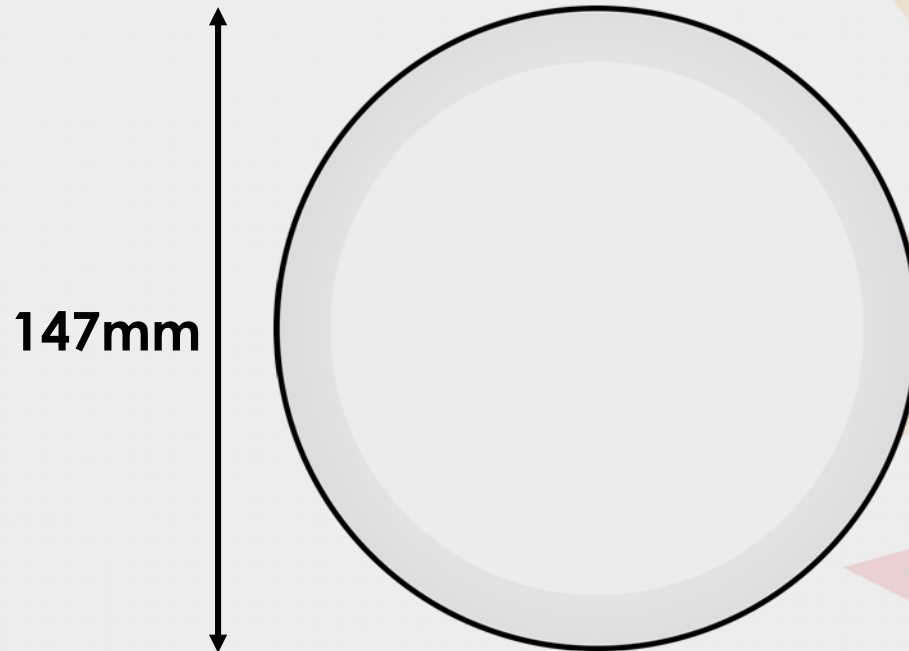
Find the radius of the plate.



Explain how you know.

Reasoning 2

Find the radius of the plate.

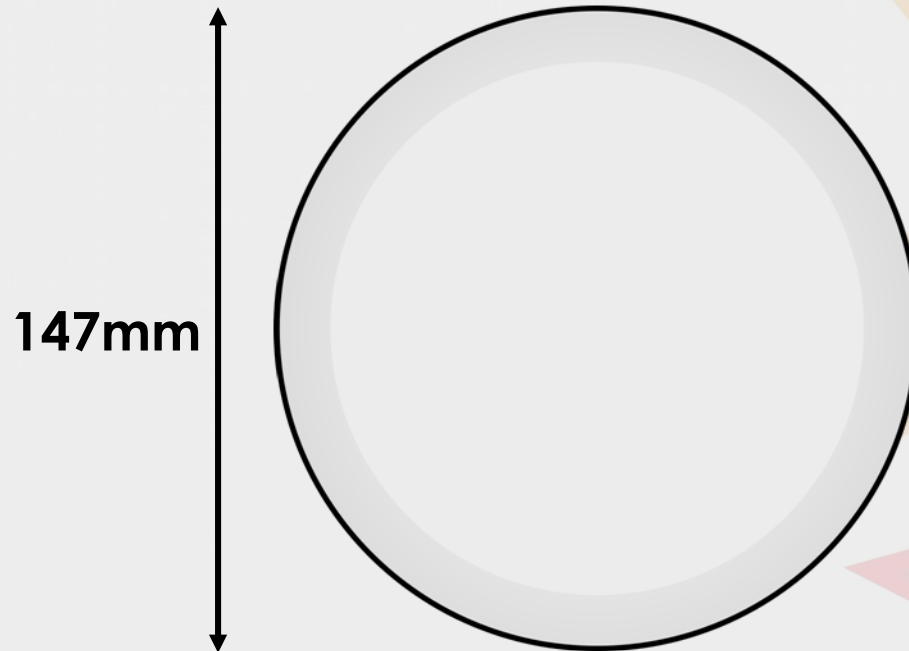


Explain how you know.

The radius of the plate is 73.5mm because...

Reasoning 2

Find the radius of the plate.



Explain how you know.

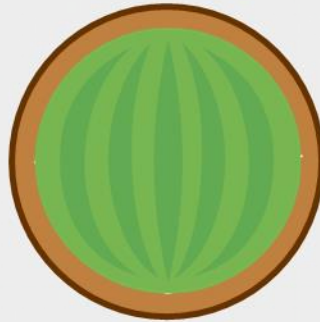
The radius of the plate is 73.5mm because it is half of the diameter which is 147mm.

Problem Solving 1

Melons are stored in round tubs.

The tubs must be $\frac{1}{5}$ bigger than the melons.

Calculate the missing sizes.



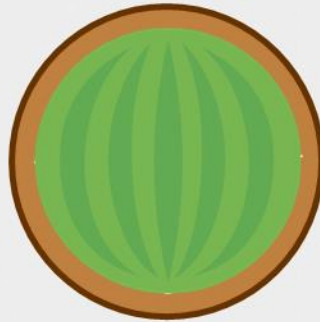
Melon Radius	Tub Diameter
45mm	
30.5mm	

Problem Solving 1

Melons are stored in round tubs.

The tubs must be $\frac{1}{5}$ bigger than the melons.

Calculate the missing sizes.



Melon Radius	Tub Diameter
45mm	108mm
30.5mm	73.2mm

Well done! It's over to you now.

Go to Part 4 and choose your Star Challenge! Normal rules apply: page 1 will give you an easier challenge, page 2 will be about the same as what we've just practised and page 3 will be more of a stretch.

You only need to do the first set of questions on your chosen Star Challenge – the 'A' questions. If you want extra practice, you can then do the next set of questions – the 'B' questions. When you finish, don't forget to mark your answers before sharing, so I can see where you need help.