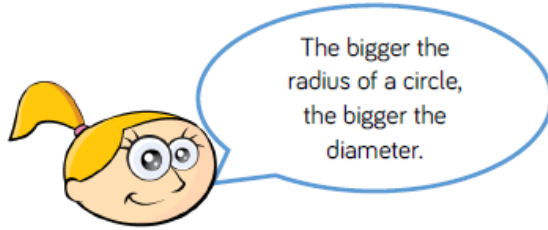


Stephanie says:



Do you agree? Explain your reasoning.

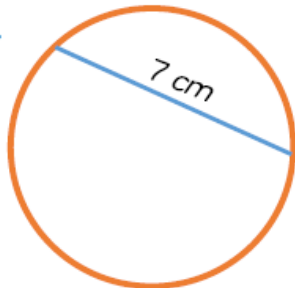
Answer:

I agree with Stephanie because the diameter is twice the length of the radius.

Spot the mistake!

Ross has measured and labelled the diameter of the circle below.

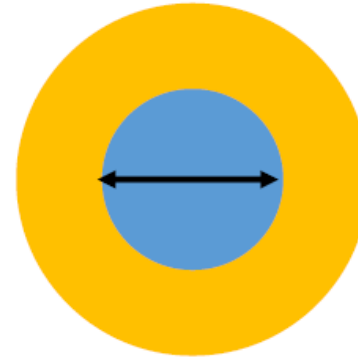
He thinks that the radius of this circle will be 3.5 cm.



Is Ross right? Explain why.

Answer: Ross has measured the diameter inaccurately because the diameter always goes through the centre of the circle from one edge to another.

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



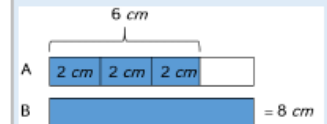
If the diameter of Circle A is 6cm, what is the diameter of Circle B?

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

If the diameter of Circle B is 16cm, what is the diameter of Circle A?

If the diameter of Circle B is 16cm, what is the radius of Circle A?

Answers: This problem can be solved using a bar model.



- a) 8 cm
- b) 4 cm
- c) 12 cm
- d) 6 cm