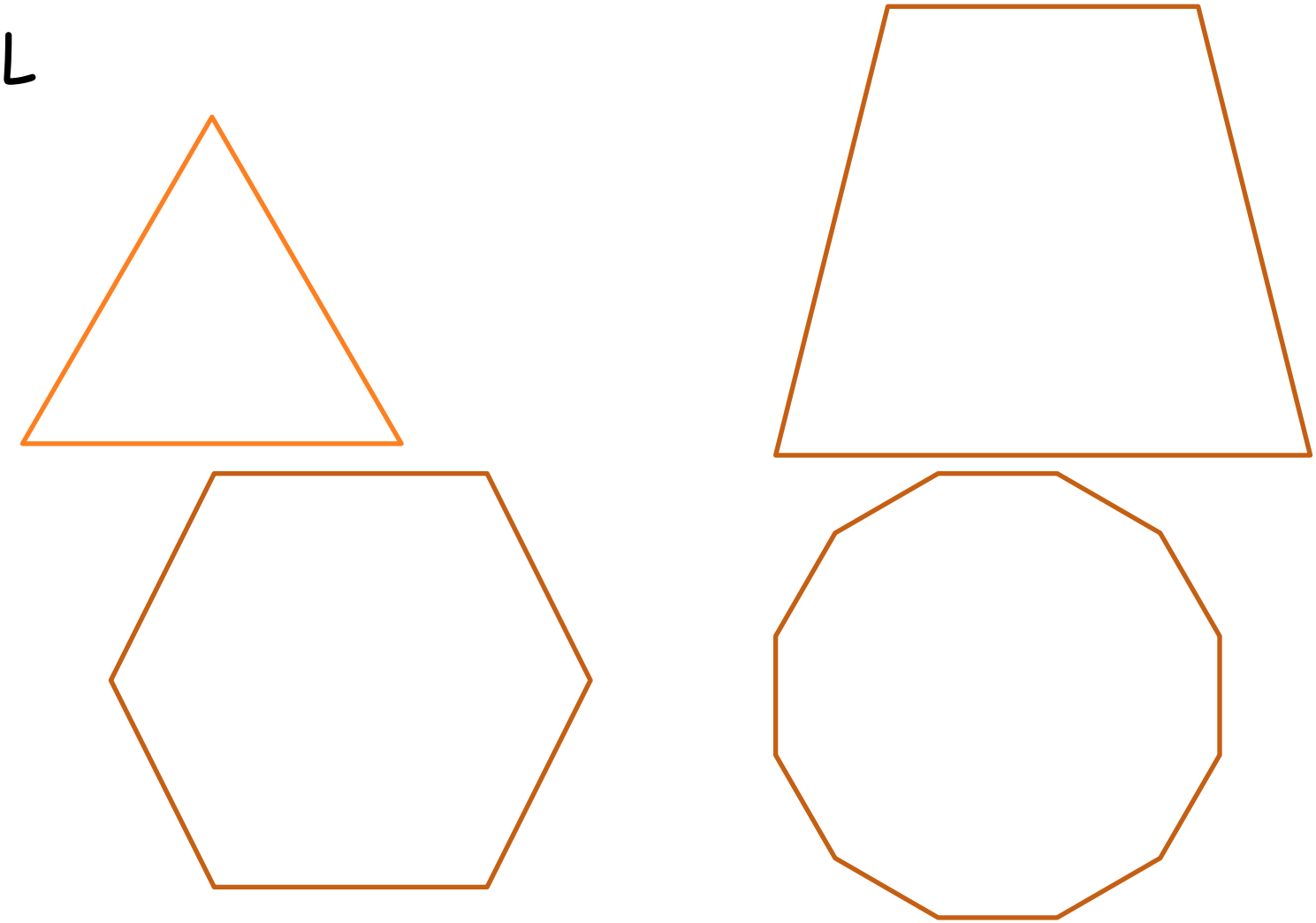
RECALL



Write as many facts about these shapes as you can

Can you find the odd one out and why?

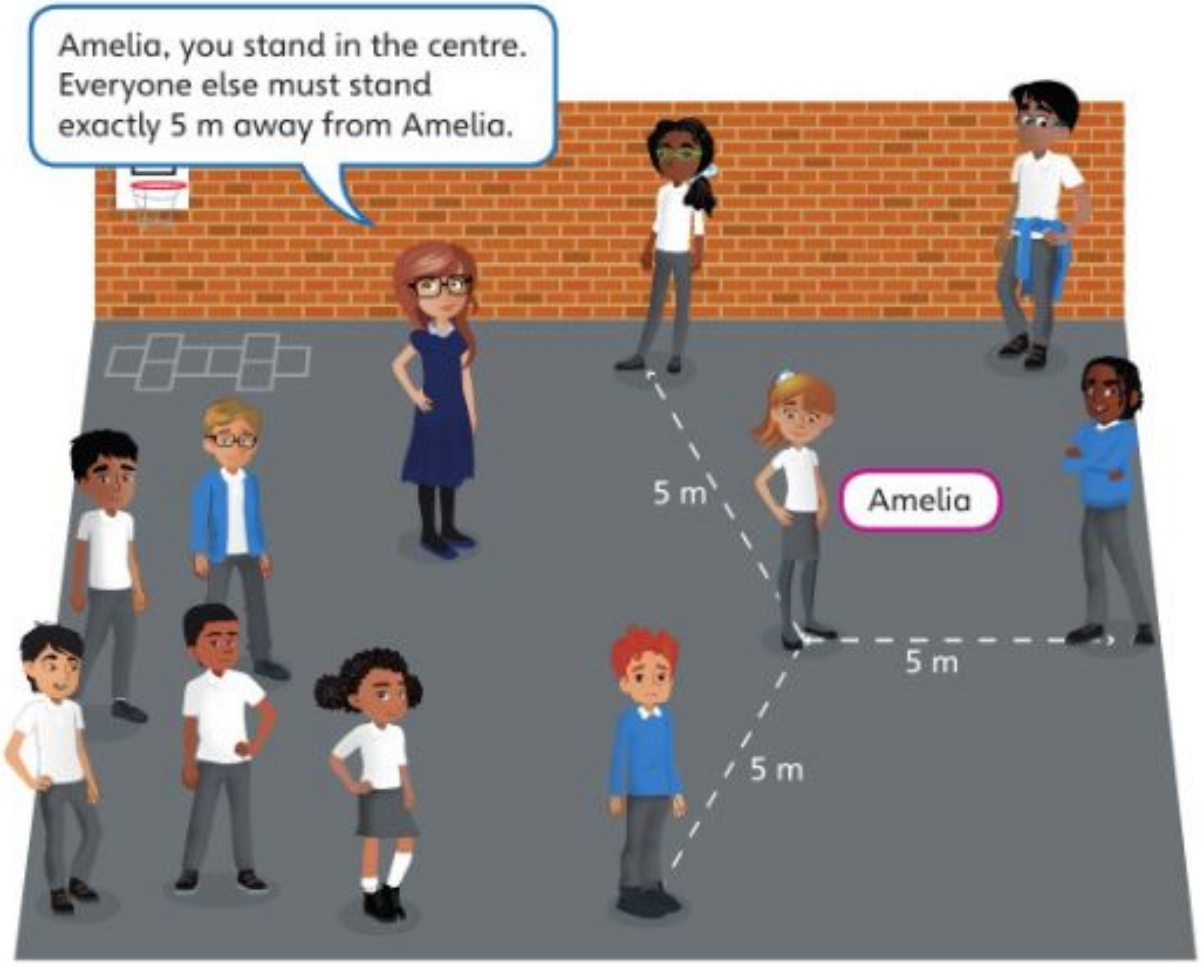
I CAN ILLUSTRATE AND NAME PARTS OF A CIRCLE INCLUDING RADIUS AND DIAMETER AND KNOW THAT THE DIAMETER IS TWICE THE RADIUS

SHAPE (36 I)

GUIDED PRACTICE

1) What shapes will the class form around Amelia as 3 children stand around her?

2) What about if there are 4 children around her? 5 children? …

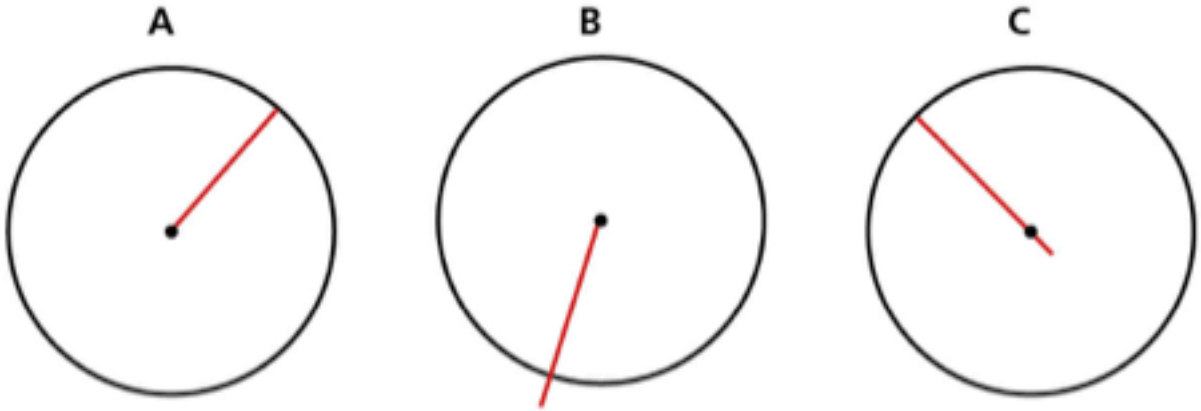


INTELLIGENT PRACTICE

The radius has been marked on each circle.

True or False?

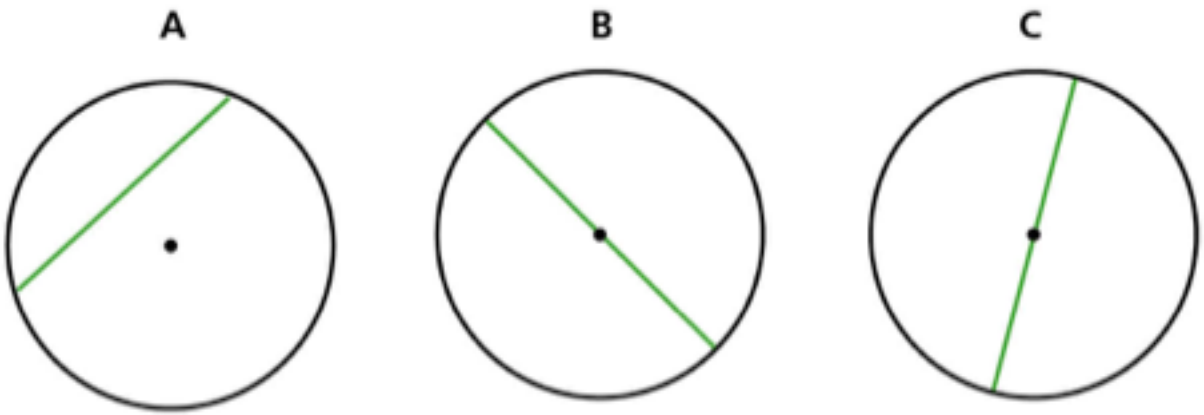
Explain your answer



The diameter has been marked on each circle.

True or False?

Explain your answer



Complete the table.

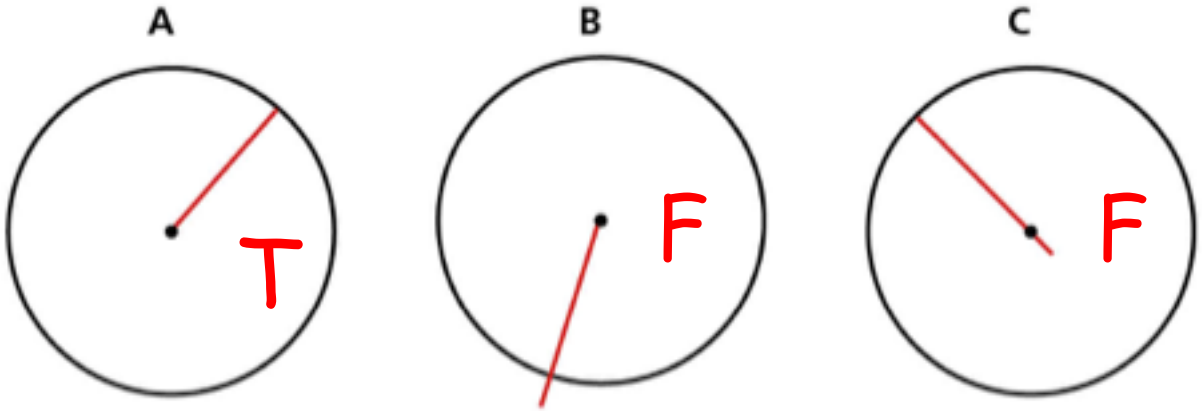
Radius	4 cm			3.5 km	
Diameter		12 m	9mm		12.6 cm

INTELLIGENT PRACTICE ANSWERS

The radius has been marked on each circle.

True or False?

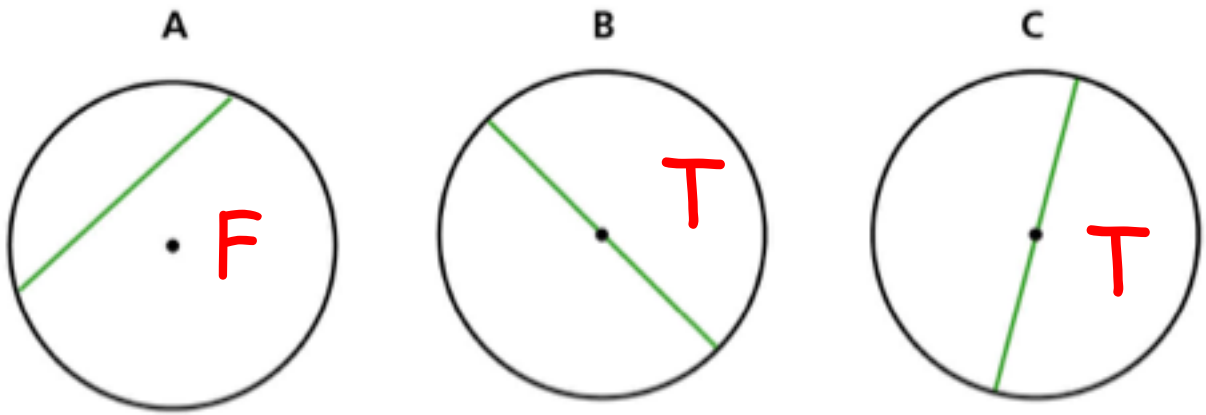
Explain your answer



The diameter has been marked on each circle.

True or False?

Explain your answer



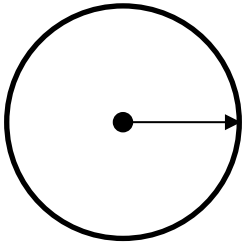
Complete the table.

Radius	4 cm	6 m	4.5 mm	3.5 km	6.3 cm
Diameter	8 cm	12 m	9mm	7 km	12.6 cm

DIVE DEEPER 1

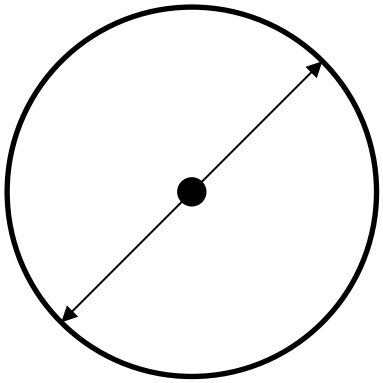
1) Calculate the missing information.

a)



Radius = 18mm
Diameter = _____mm

b)



Radius = _____ mm
Diameter = 16mm

2) Joel says:
"The bigger the radius of a circle, the bigger the diameter."

Do you agree? Explain your reasoning.

3) Tick ✅ the statements which are true.

The radius is twice as long as the diameter.

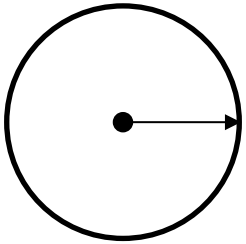
The diameter passes through the centre of the circle.

If the radius is x, then the diameter is x + x.

DIVE DEEPER 1 ANSWERS

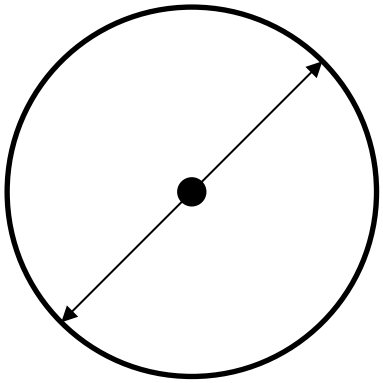
1) Calculate the missing information.

a)



Radius = 18mm
Diameter = 36mm

b)



Radius = 8mm
Diameter = 16mm

2) Joel says:
"The bigger the radius of a circle, the bigger the diameter."

Do you agree?

I agree because the radius is half of the diameter. Therefore if the radius is 1cm the diameter will be 2cm. If I double the radius to 2cm the diameter will double to 4cm.

3) Tick ✅ the statements which are true.

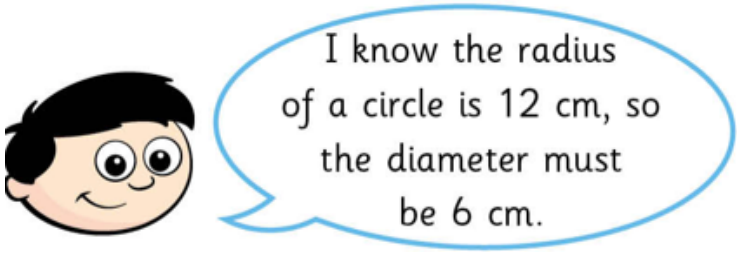
The radius is twice as long as the diameter.

The diameter passes through the centre of the circle. ✓

If the radius is x, then the diameter is x + x. ✓

DIVE DEEPER 2

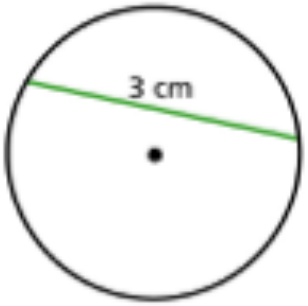
4)



Do you agree with Dexter?

Explain your answer.

5)Annie thinks she has accurately measured and labelled the diameter of the circle.



a)Is she correct?
Explain your answer.

b) Is the diameter greater or less than 3cm?
Explain your answer.

6a) Calculate the radius of a 2p coin.

radius = _____ cm

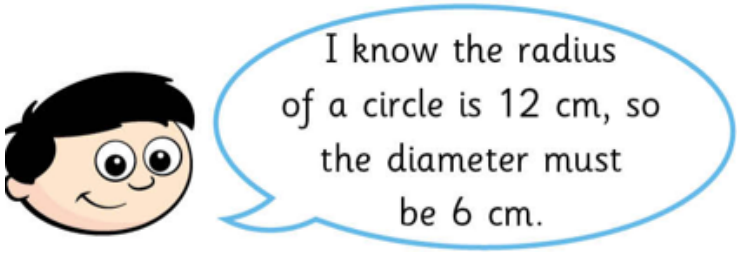
b) This is a 5p.

Calculate the length of the line

The line is _____ mm.

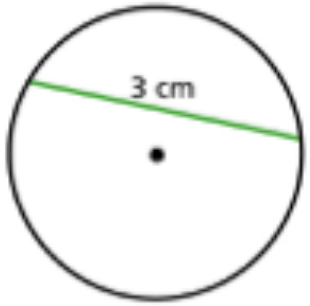
DIVE DEEPER 2 ANSWERS

4)



Do you agree with Dexter?
No, the diameter is twice the radius.

5)Annie thinks she has accurately measured and labelled the diameter of the circle.



a)Is she correct?
No, because it doesn't go through the centre.

b) Is the diameter greater or less than 3cm?
Greater than because it will have to go through the centre.

6a) Calculate the radius of a 2p coin.

radius = 13 cm

b) This is a 5p.

Calculate the length of the line

The line is 72 mm.

SELF-ASSESSMENT

- **Some will even understand how circles' centres will be equidistant away from each other**
- **Some will use the radius to solve problems**
- **Most will understand that the diameter is the same as 2r**
- **All will be able to name and find the radius**