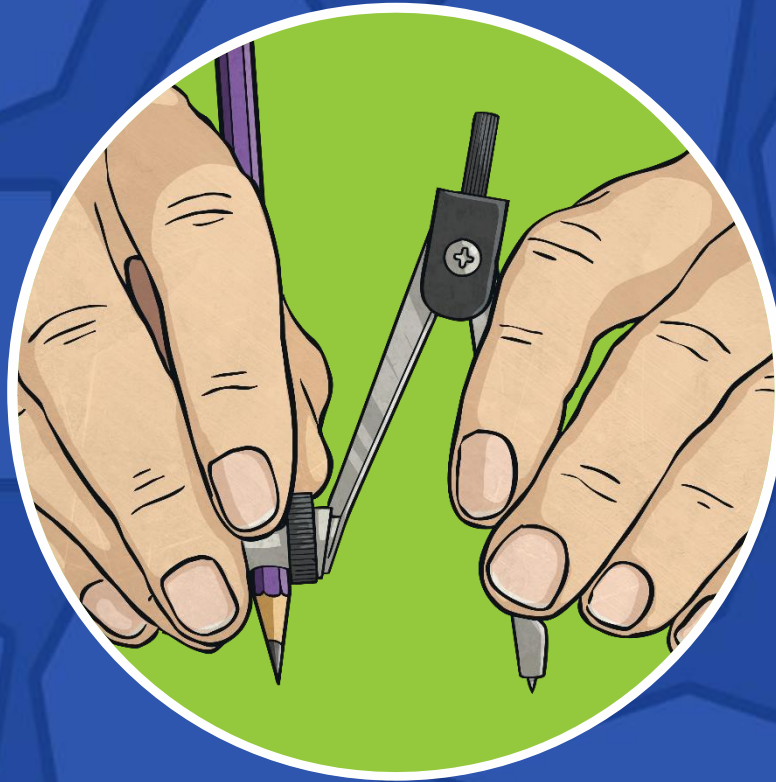


Y6 Ocean Maths: Clever Circles



Ocean Maths

LI: To identify and label the parts of a circle.

LI: To investigate circles

Starter: What shape am I?

Geometry Riddles



Clue 1: My interior angles total 540° .

Clue 2: I am regular.

Clue 1: I have 5 straight sides.

a regular pentagon

Geometry Riddles

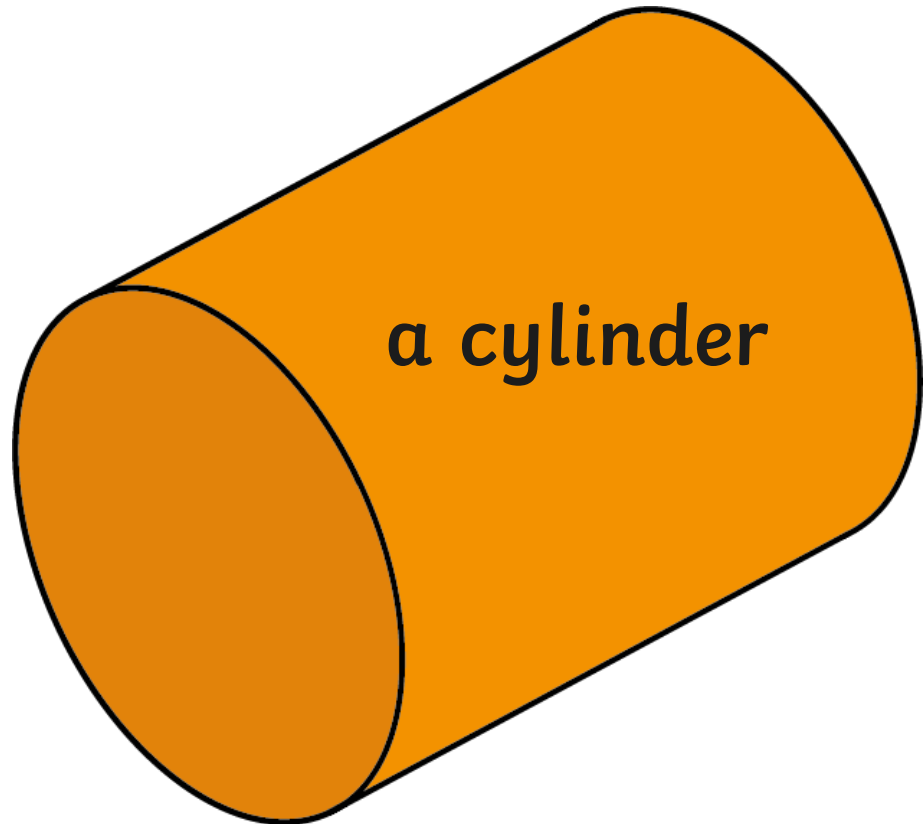


Clue 1:

I have three faces.

Clue 2: Two of my
faces are circles.

Clue 1: My other face
is a rectangle.



Geometry Riddles

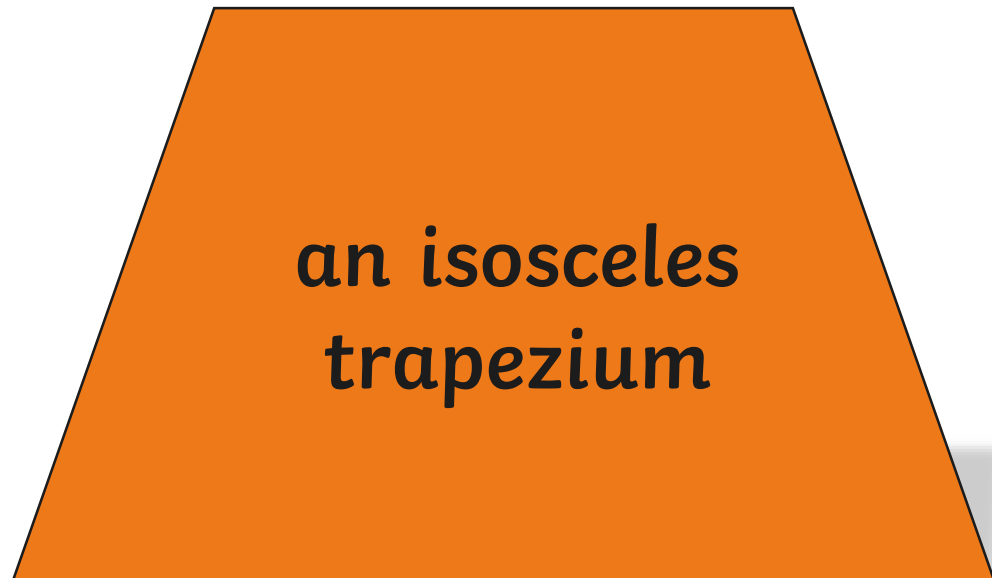


Clue 1:

I am a quadrilateral.

Clue 2: I have one pair of parallel sides.

Clue 1: I have two pairs of equal angles.



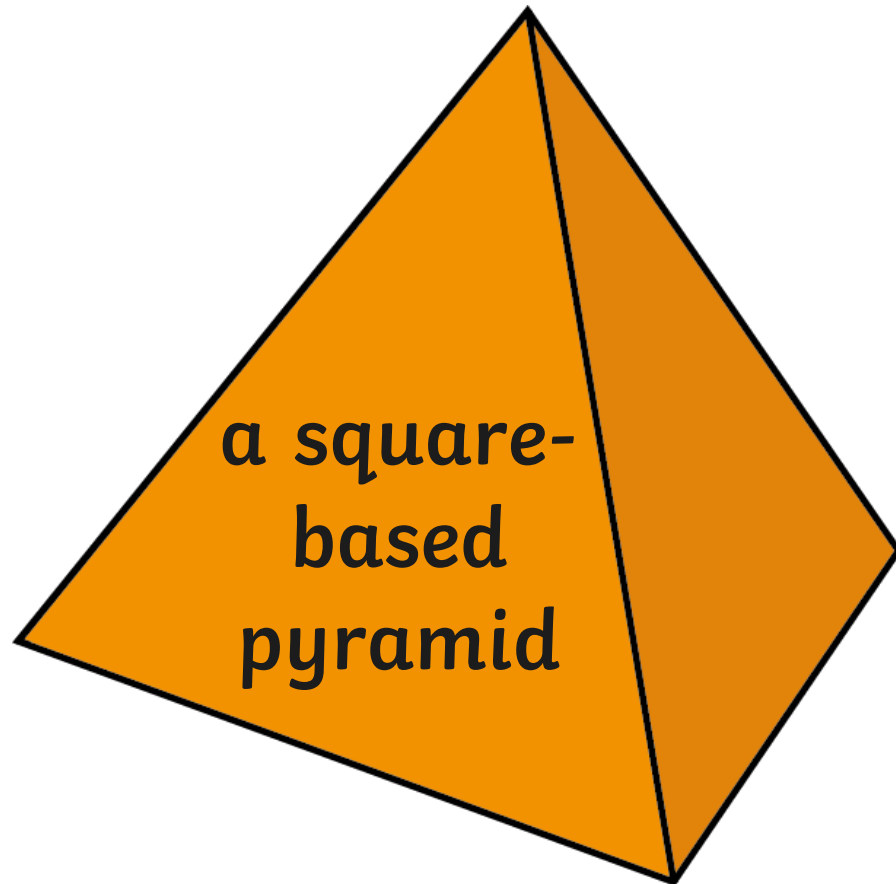
Geometry Riddles



Clue 1: I have 5 faces
and 5 vertices.

Clue 2: Four of my
faces are triangles.

Clue 1: My fifth face
is a square.



Geometry Riddles

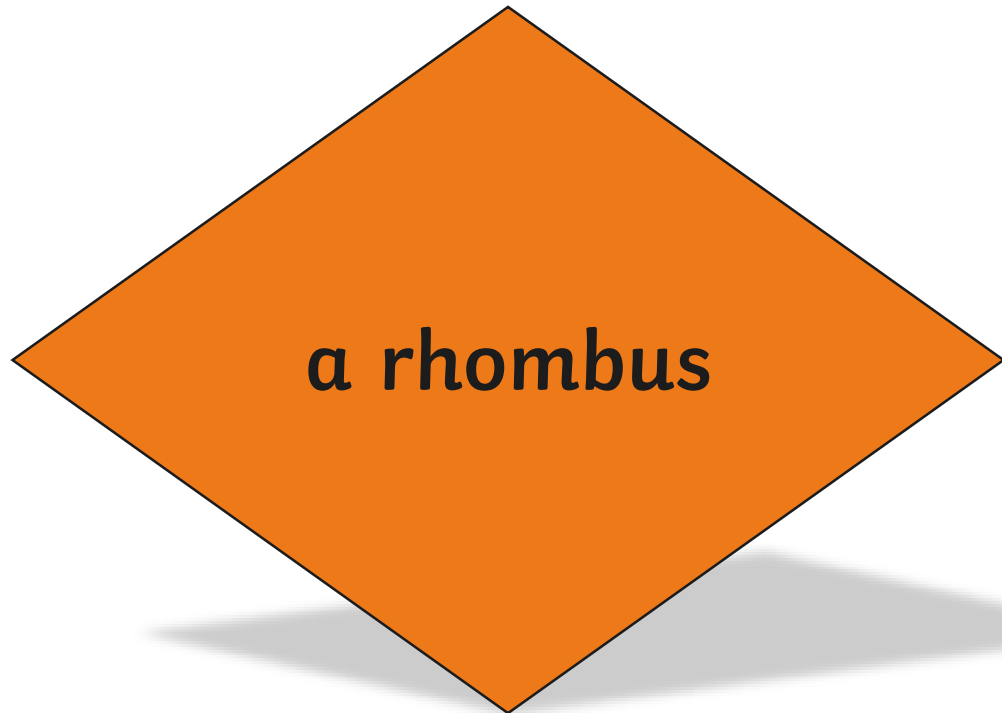


Clue 1:

I am a quadrilateral.

Clue 2: All my sides
are congruent.

Clue 1: I have two
pairs of opposite,
congruent angles.



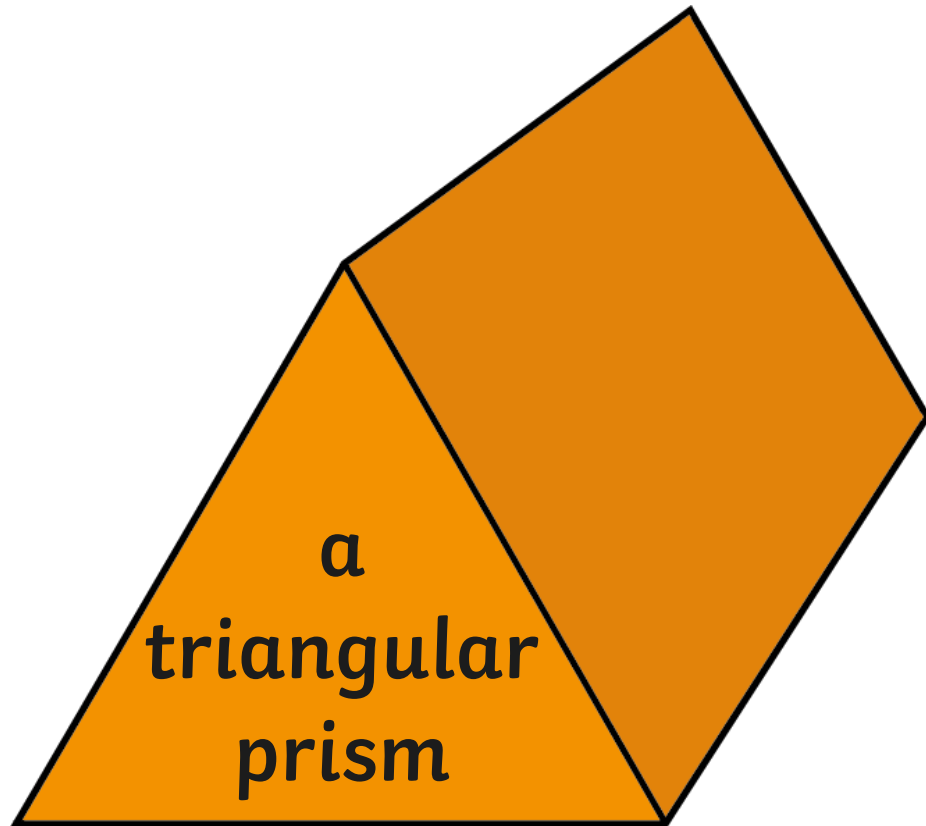
Geometry Riddles



Clue 1:
I am a prism.

Clue 2:
I have five faces.

Clue 1: Three of my
faces are rectangular.

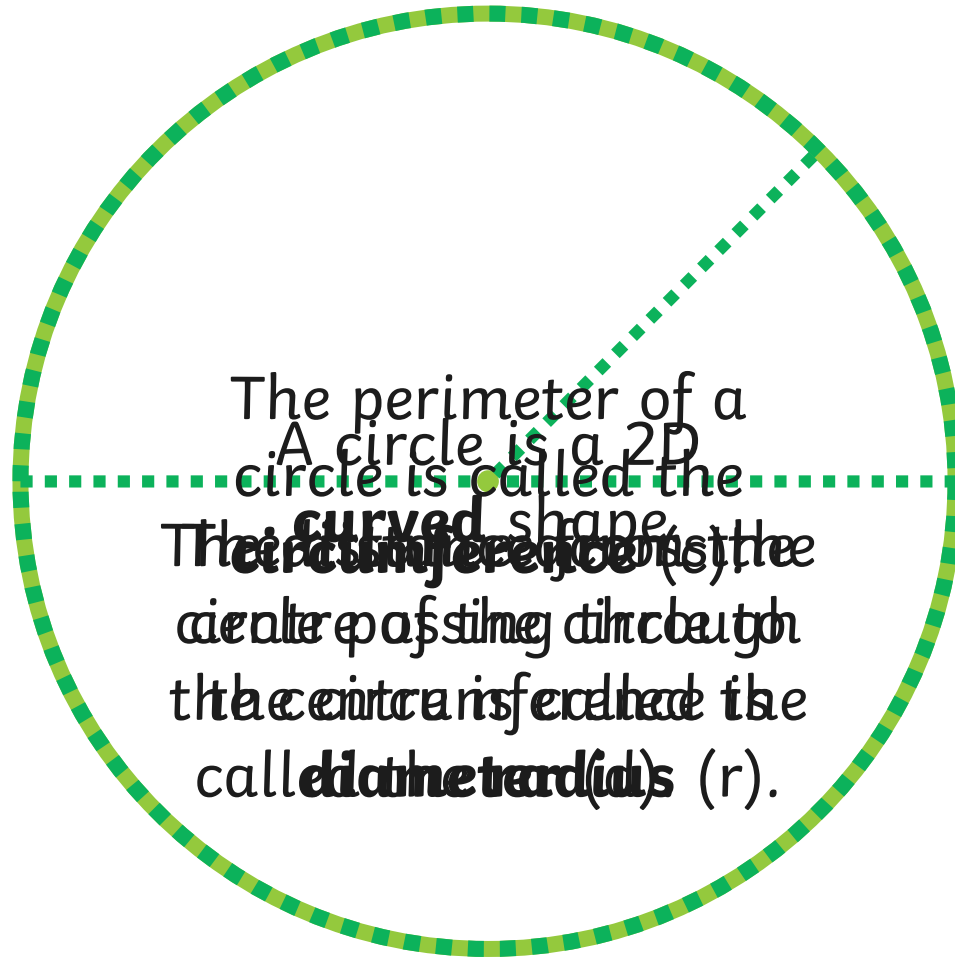


Recap

This term in Y6 we learnt all about circles. What can you remember?

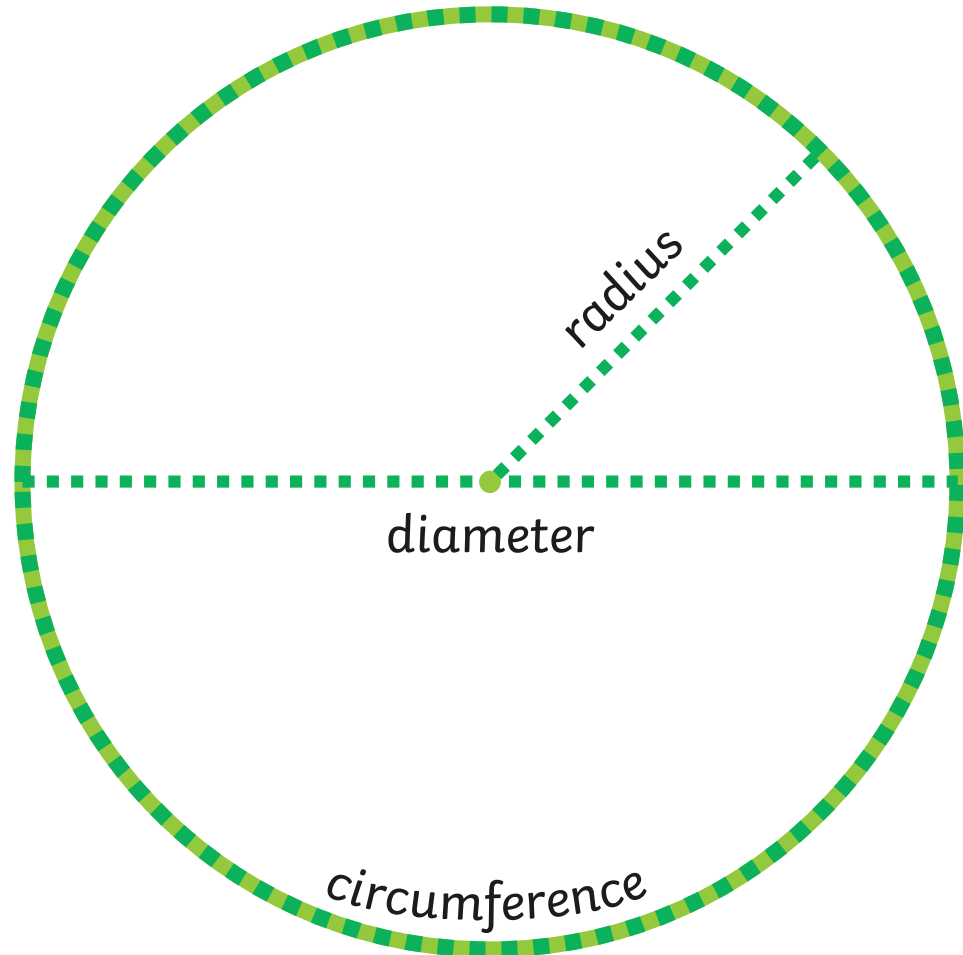
Can you name any parts of a circle?

All About the Circle



All About the Circle

Here are the **circumference** (c), **radius** (r) and **diameter** (d) labelled on the same circle.



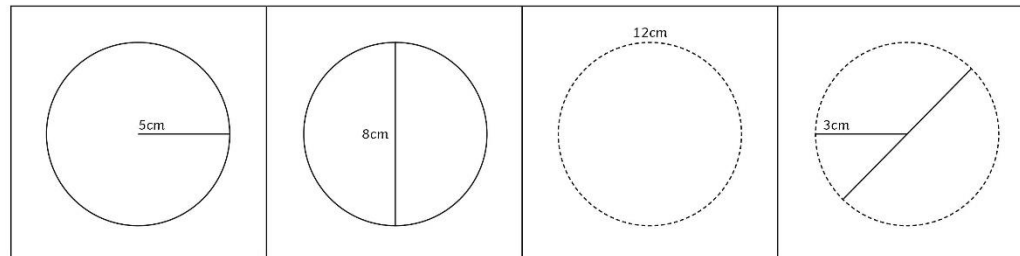
Activity 1: Circle Riddles



Work with your partner to match the riddle descriptions to the correct labelled circle.

Circle Riddles

Match the circles to the correct riddle.



My radius is 3cm.
Which circle am I?

My diameter is 10cm.
Which circle am I?

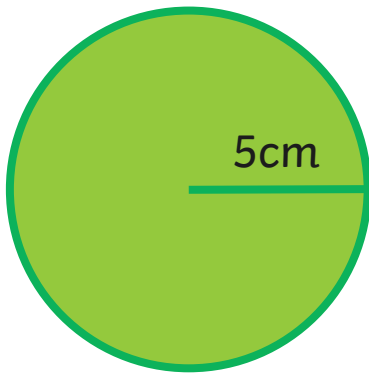
My diameter is 8cm.
Which circle am I?

My circumference is 12cm.
Which circle am I?

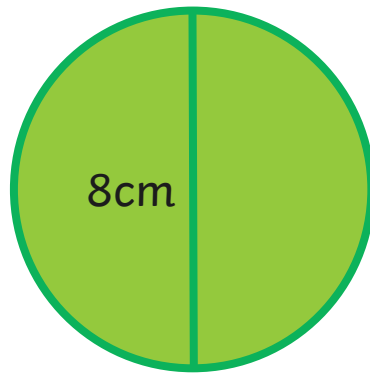
Circle Riddles



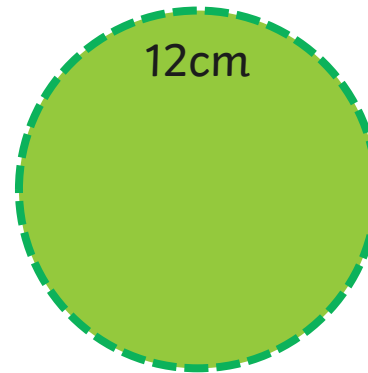
Did you match the riddle descriptions to the correct labelled circle?



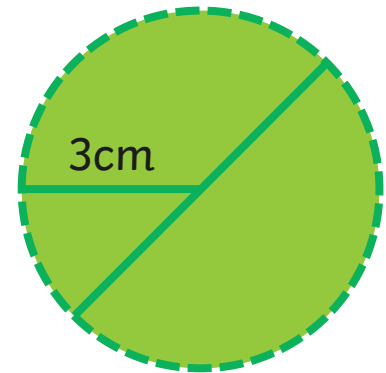
**My
diameter
is 10cm.**



**My
diameter
is 8cm.**



**My
circumference
is 12cm.**



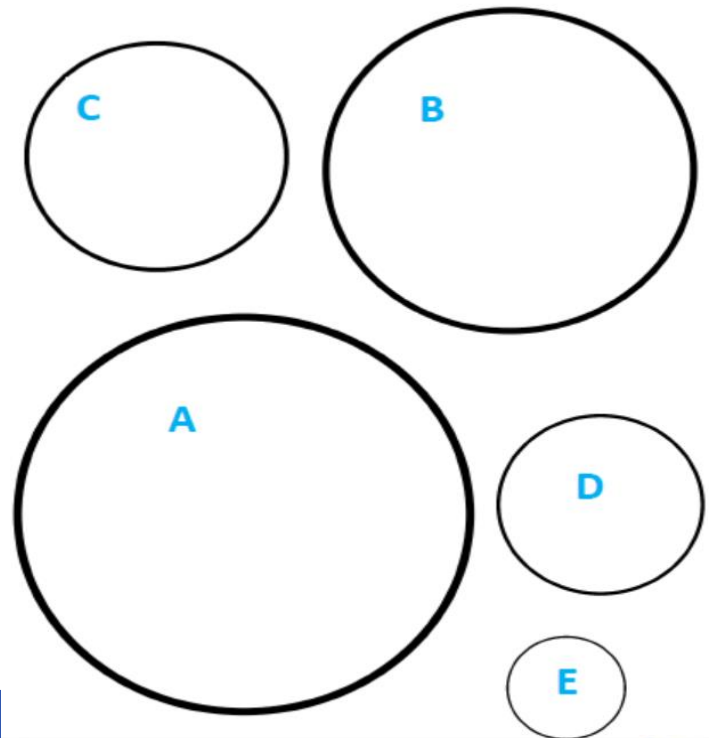
**My
radius is
3cm.**

Pi Activity 2

What is Pi?

The **Circumference** divided by the **Diameter**
of a Circle.

1. Carefully cut out the circles below, then fold them in half and in half again to find the centre point.



Find out more about Pi:

<https://www.mathsisfun.com/numbers/pi.html>

Pi Activity 2

1. Using a ruler and a piece of string, measure the radius, diameter and circumference of your circles (round your answers to the nearest centimetre)
2. Fill in the table below and then answer these questions:
 - Look at the radius and diameter, what do you notice?
 - Now look at the diameter and circumference, do you notice anything?
 - If a circle has a diameter of 56cm:
 - a) What would be the radius?
 - b) Can you estimate what the circumference would be?

Circle	Radius	Diameter	Circumference
A			
B			
C			
D			
E			

Pi Activity 3

Materials needed:

- Various circular shapes and objects e.g. bowls, container lids, cups etc.
- String
- Rulers
- Pencils
- Calculator (optional)

Method:

- Measure the circular object using string
- Cut the string to fit precisely around the objects to measure the circles
- Lay the string flat to measure the lengths with the ruler. Record the result
- Use a ruler to measure the diameter of the circles (edge to edge)
- Divide the circumference by the diameter to discover Pi!

Aim



- I can draw circles accurately using a pair of compasses and I can identify and label the parts of a circle.

Success Criteria

- I can use a pair of compasses to draw a circle.
- I can label the radius, diameter and circumference of a circle.

