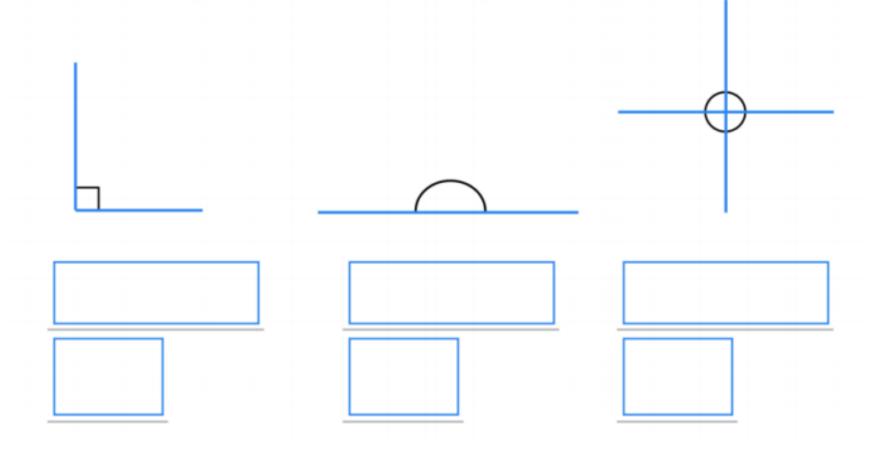
Warm your brains up thinking about the following questions:

Warm Up Challenge

You know that different types of angles have different names.

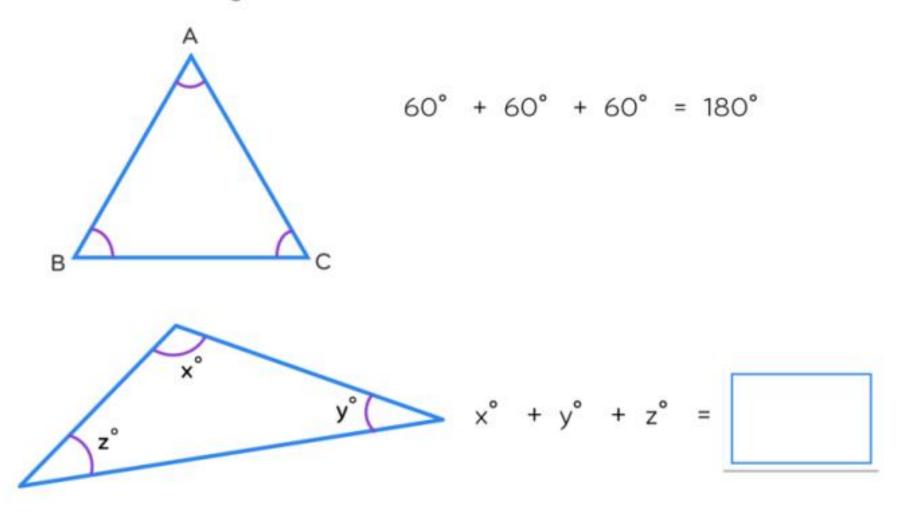
What is the name of each of these types of angles?

How many degrees do each of these angles measure?



Angles in a triangle

Look at these triangles.



C

Angles in a triangle

How do we know?

Tear a triangle into 3 pieces with a corner in each.

Join the corners together to make a straight line.

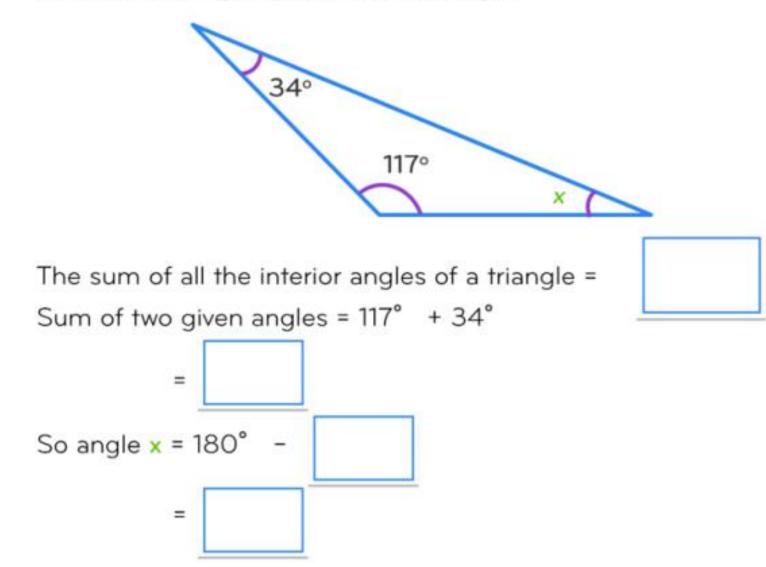


We know that angles on a straight line add up to

So, the sum of the interior angles in a triangle must be

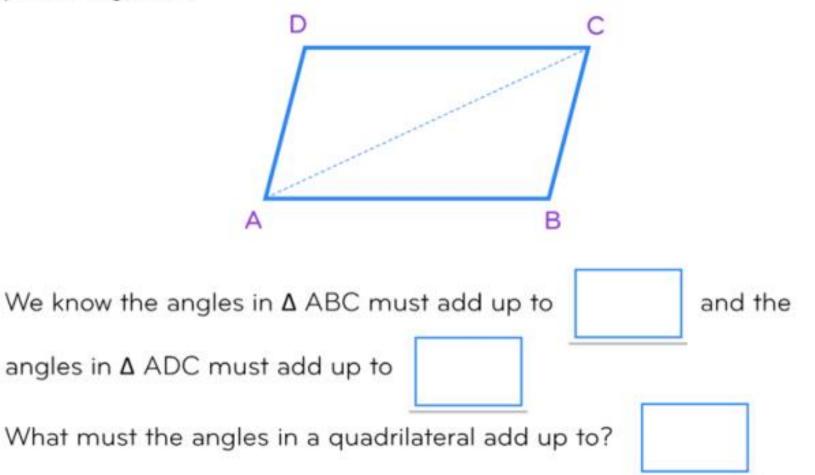
Angles in a triangle

Find the missing angle, \mathbf{x} , in this triangle.



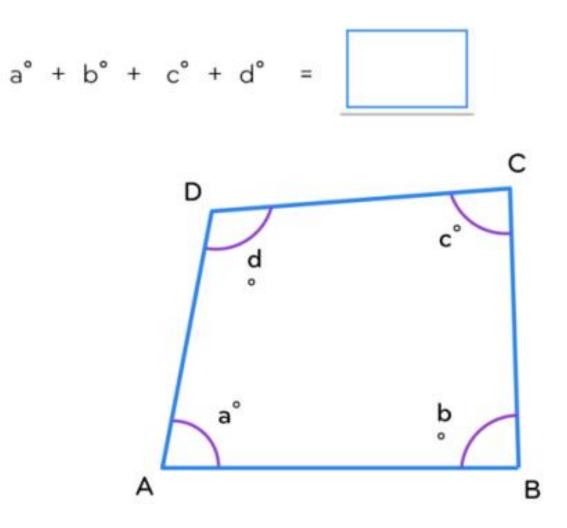
Angles in a quadrilateral

ABCD is a quadrilateral made up of two triangles; Δ ABC and Δ ADC, joined together.

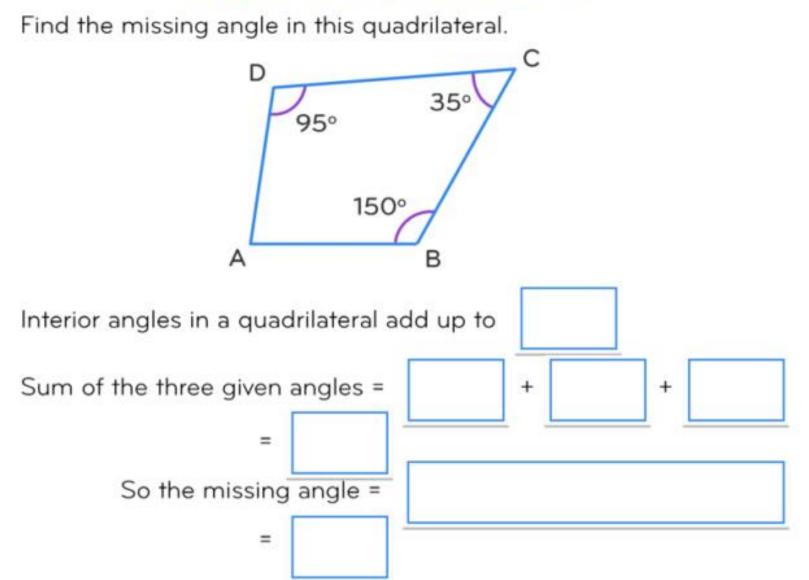


Angles in a quadrilateral

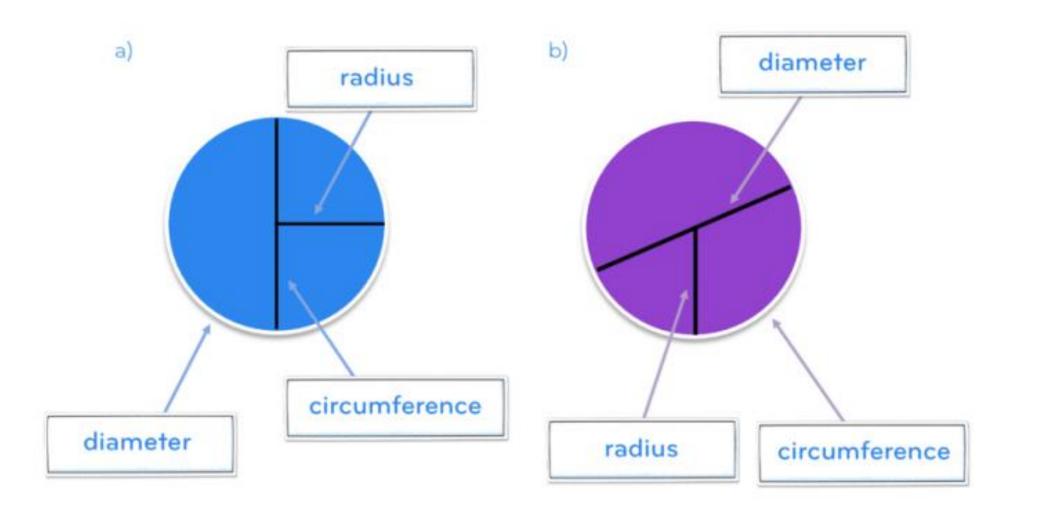
Look at quadrilateral ABCD.

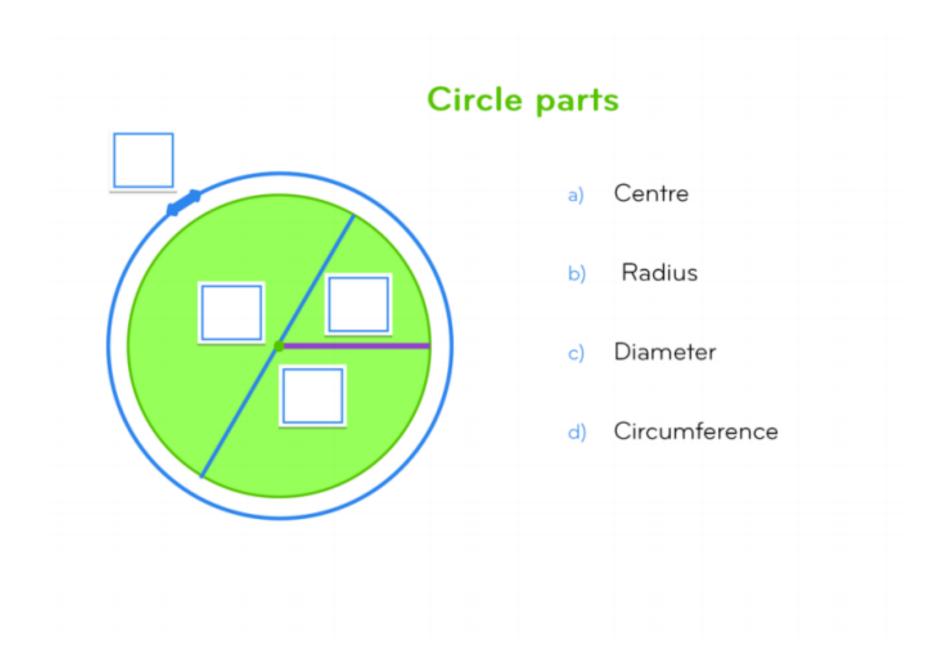


Angles in a quadrilateral



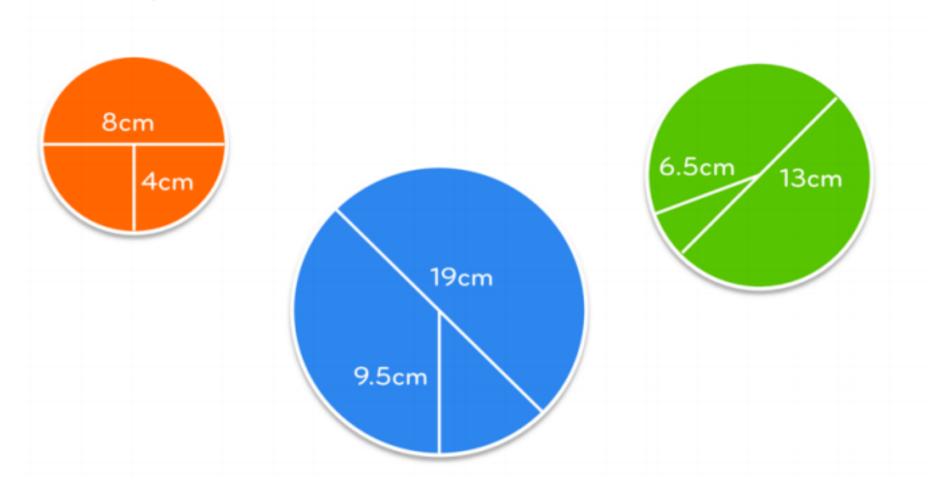
1. Tick the circle that is labelled correctly.

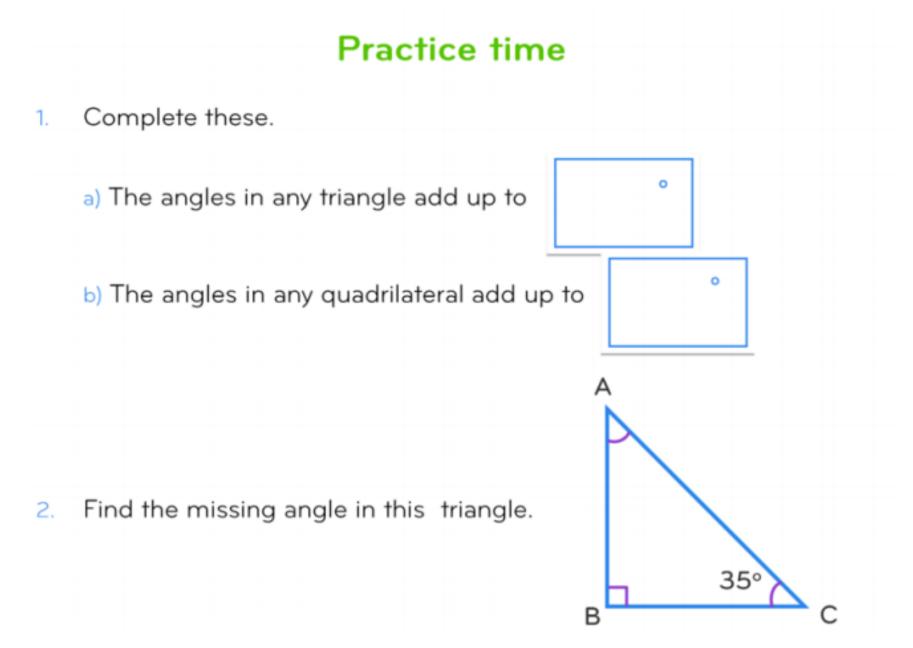


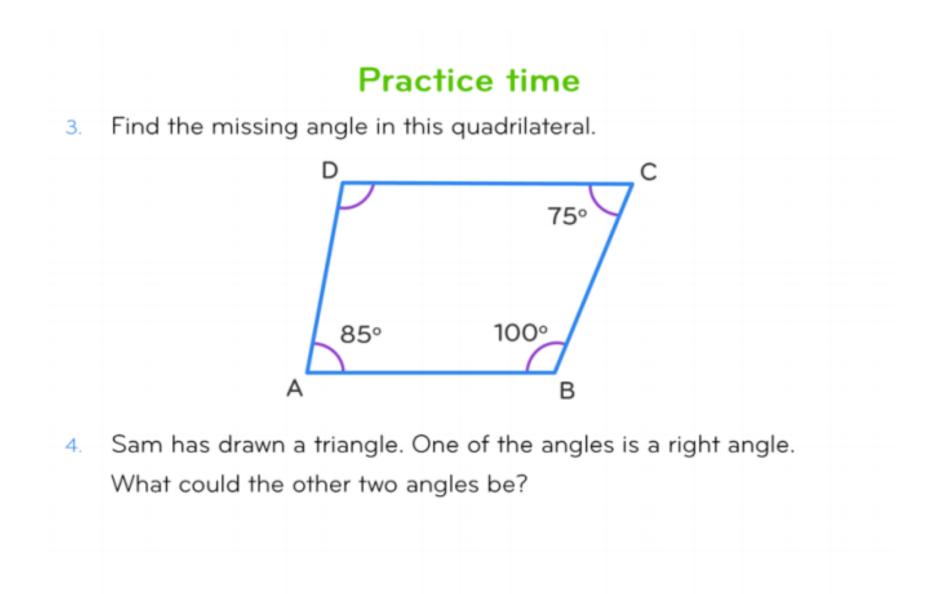


Relationship

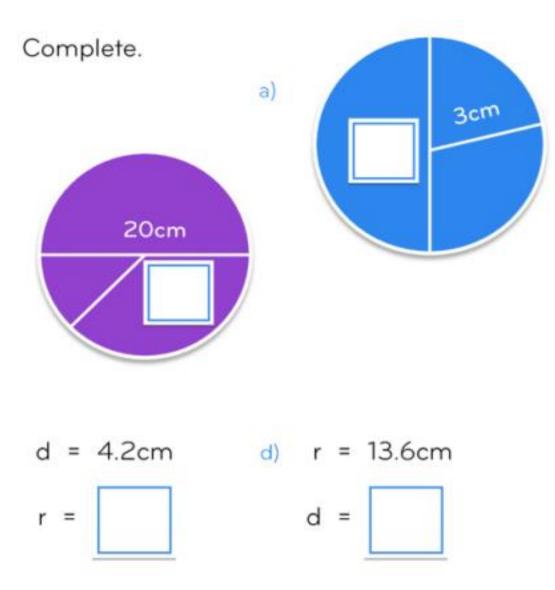
What do you notice about the diameter and the radius on the circles?



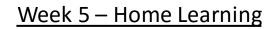


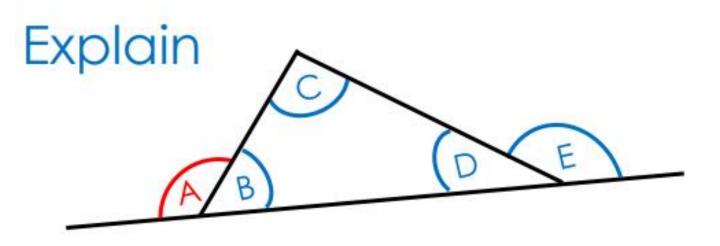


Practice time



Tickle that brain of yours a little further with the following mastery question...





I can work out angle A if I know...

Angles C and D

Angles D and E

Angles C and E

Tick correct option(s).

Explain how you know.