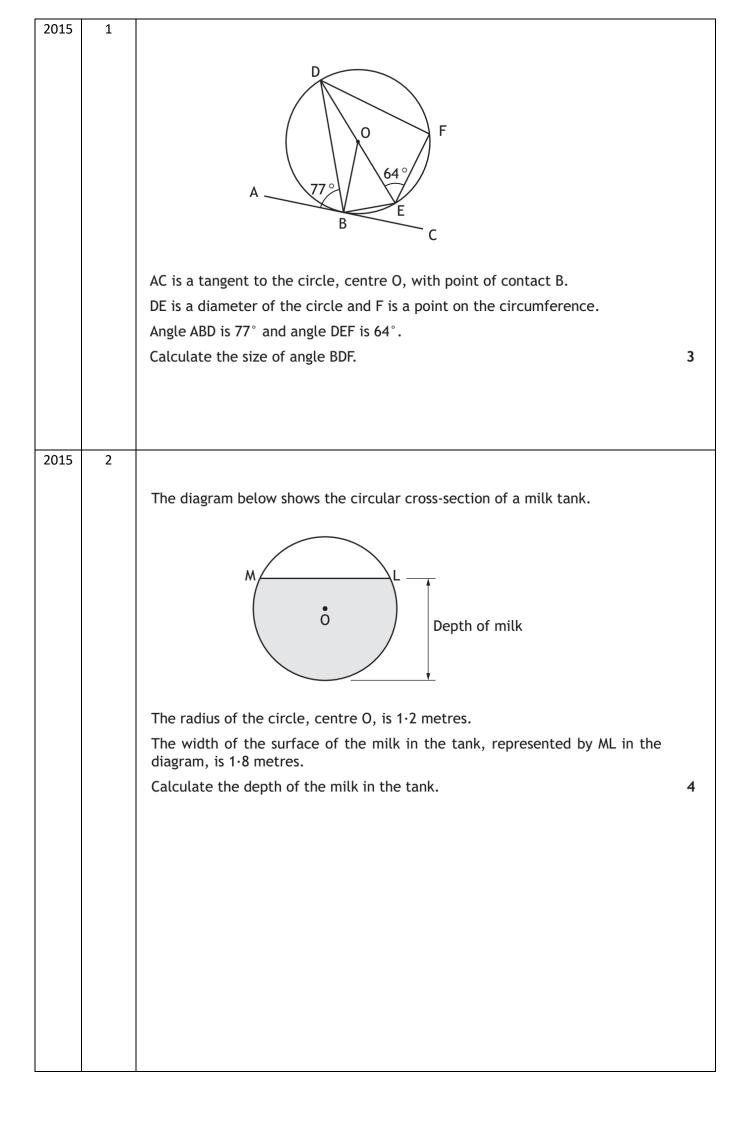
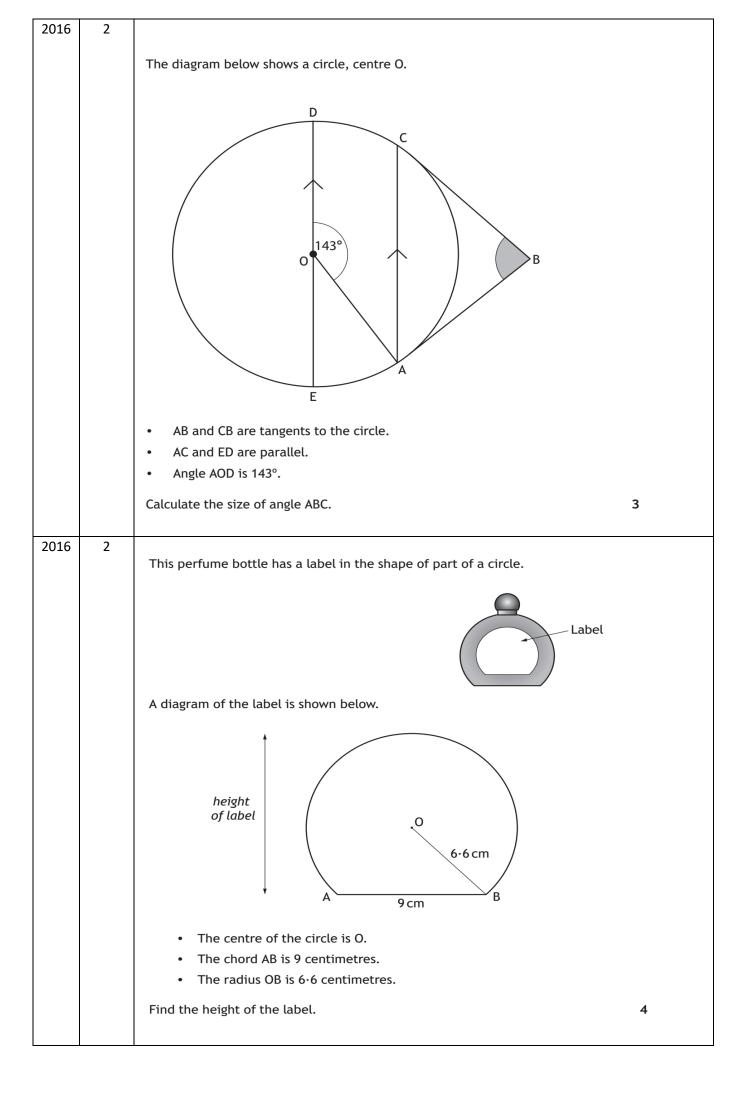
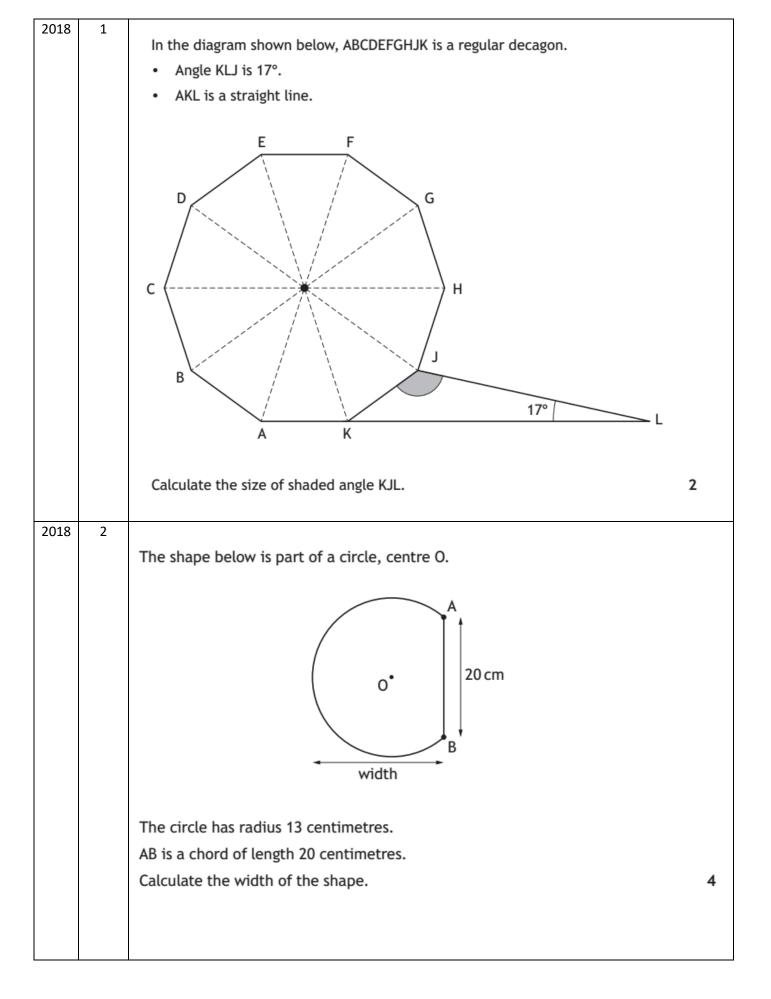
Circle Properties		
YEAR	PAPER	QUESTION
2014	1	The diagram below shows a circle, centre C.
		A C B
		The radius of the circle is 15 centimetres.
		A is the mid-point of chord PQ.
		The length of AB is 27 centimetres.
		Calculate the length of PQ. 4
2014	2	
		The picture shows the entrance to a tunnel which is in the shape of part of a circle.
		The diagram below represents the cross-section of the tunnel.
		 The centre of the circle is O. MN is a chord of the circle.
		Angle MON is 50°.
		• The radius of the circle is 7 metres.
		M N
		Calculate the area of the cross-section of the tunnel. 5







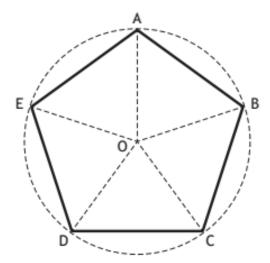
2019

1

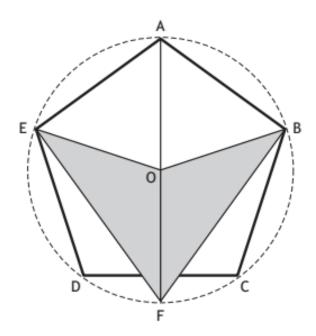
Pam is designing a company logo.

She starts by drawing a regular pentagon ABCDE.

The vertices of the pentagon lie on the circumference of a circle with centre O.



She then adds to the design as shown in the diagram below.



AF is a diameter of the circle.

Calculate the size of angle OFB.

The body is part of a larger circle, centre T

Calculate CD, the height of the snowman.

The point T lies on the circumference of the small circle

The points A and B lie on the circumferences of both circles

