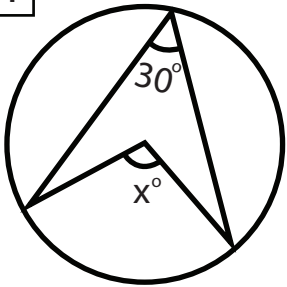


Name : \_\_\_\_\_

Score : \_\_\_\_\_ Date : \_\_\_\_\_

## Circle Theorems in Geometry

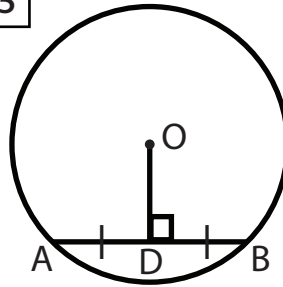
1



Angle at center is twice the angle at the circumference

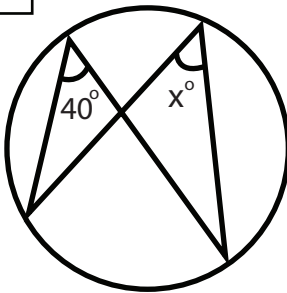
$x^\circ = \underline{\hspace{2cm}}$

5



Perpendicular line drawn from center to the chord bisects the chord

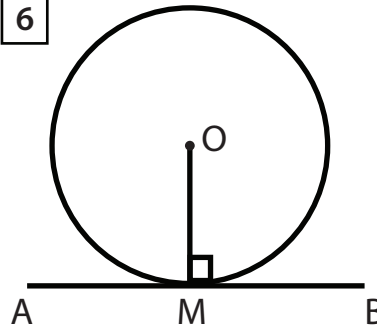
2



Angles in the same segment are equal.

$x^\circ = \underline{\hspace{2cm}}$

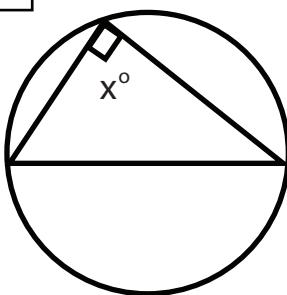
6



The angle between a tangent and a radius is  $90^\circ$

$\angle OMA = \underline{\hspace{2cm}}$

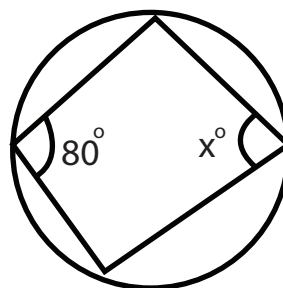
3



The angle in a semicircle is  $90^\circ$

$x^\circ = \underline{\hspace{2cm}}$

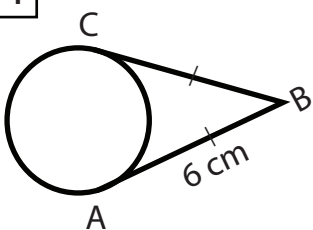
7



Opposite angles in a cyclic quadrilateral add up to  $180^\circ$

$x^\circ = \underline{\hspace{2cm}}$

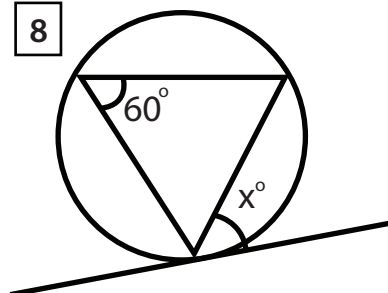
4



Tangents from a point outside a circle are of equal length

$CB = \underline{\hspace{2cm}}$

8



The angle between a chord and a tangent through one of the end points of the chord is equal to the angle in the alternate segment

$x^\circ = \underline{\hspace{2cm}}$