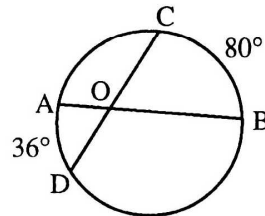


****REMEMBER TO SHOW ALL WORK****

ACTIVITY 29

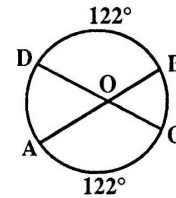
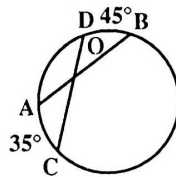
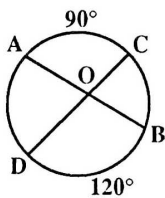
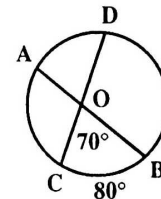
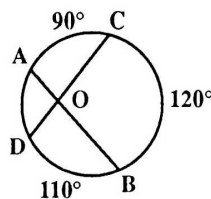
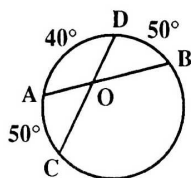
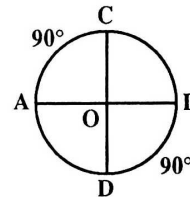
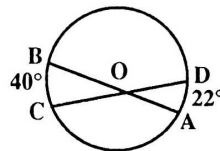
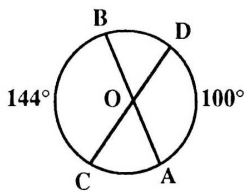
75°	58°	31°	90°	58°	140°
55°	130°	75°	140°	150°	55°
150°	60°	130°	122°	80°	130°
90°	70°	31°	90°	70°	31°
58°	31°	75°	140°	90°	58°
75°	55°	130°	122°	55°	140°

In this circle, the measure of angle AOD equals one-half the sum of the measures of arc AD and arc BC.

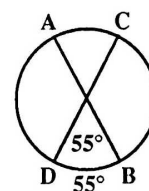
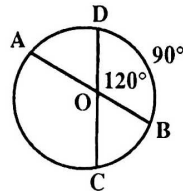
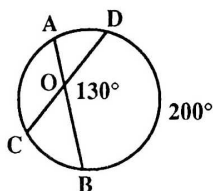


$$\begin{aligned}
 m \angle AOD &= \frac{m \text{ arc AD} + m \text{ arc BC}}{2} \\
 &= \frac{36^\circ + 80^\circ}{2} \\
 &= 58^\circ
 \end{aligned}$$

Find the measure of each angle AOD.



Find the measure of each arc AC.

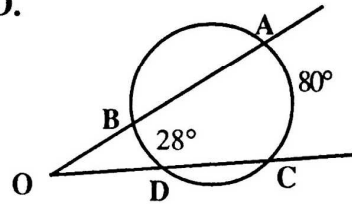


****REMEMBER TO SHOW ALL WORK****

ACTIVITY 30

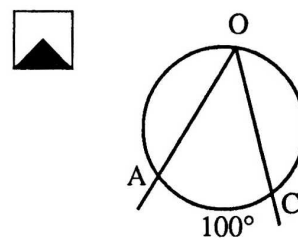
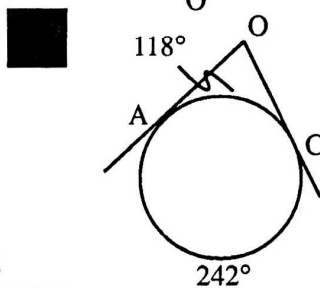
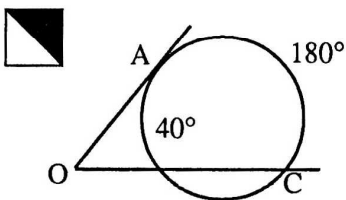
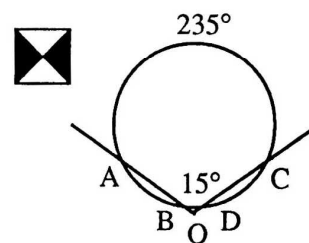
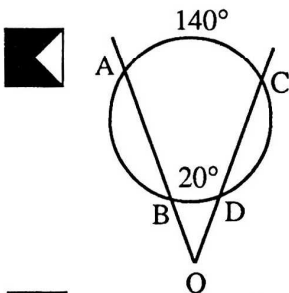
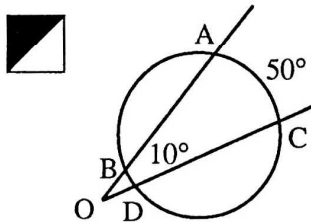
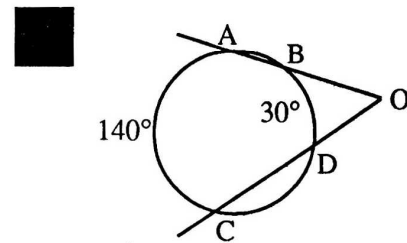
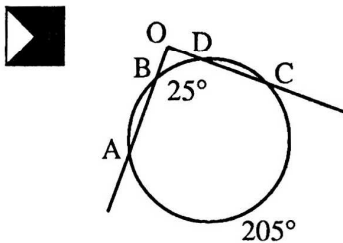
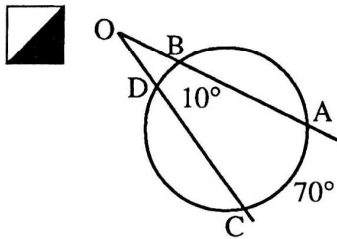
20°	12°	70°	30°	110°	38°
110°	62°	110°	90°	120°	60°
38°	50°	30°	70°	110°	106°
30°	110°	38°	20°	12°	70°
90°	65°	60°	110°	55°	110°
70°	110°	106°	38°	50°	30°

In this circle, the measure of angle AOC equals one-half the difference of the measures of arc AC and arc BD.



$$\begin{aligned}
 m \angle AOC &= \frac{1}{2}(m \text{ arc } AC - m \text{ arc } BD) \\
 &= \frac{1}{2}(80 - 28) \\
 &= \frac{1}{2}(52) \\
 &= 26^\circ
 \end{aligned}$$

Find the measure of each angle AOC.



Find the measure of each arc AC.

