# Multiple Choice Questions from EOC Released Items (18 Questions)

1. In the figure below,  What is 



* 1. 35° B. 70° C. 125° D. 145°

1. In the figure below,  is a diameter of circle O, and  What is 



* 1. 50° B. 65° C. 100° D. 130°

1. A wheel is being made with spokes as shown in the figure below. The spokes meet at the center of the wheel and will be separated so that there is 5.6 cm along the curved part of the wheel between any two ends of a spoke. What is the central angle between any two consecutive spokes. Round your answer to the nearest degree.
   1. 13° B. 14° C. 26° D. 28°
2. Circle *O* is inscribed in the quadrilateral. Find the length of .
   1. 50 in.
   2. 65 in.
   3. 70 in.
   4. 85 in.
3. Phil created a design with a circle inscribed in a triangle. What is the relationship between any one side of the triangle and the circle?
   1. The side is a radius of the circle.
   2. The side is a chord of the circle.
   3. The side is a tangent of the circle.
   4. The side is a secant of the circle.



1. What is the relationship between the triangle and the circle in the figure below?
   1. The circle is inscribed in the triangle.
   2. The triangle is inscribed in the circle.
   3. The circle is concentric with the triangle.
   4. The circle is circumscribed about the triangle.
2. If point C is the center of the circle, which segment is **not** a chord of the circle?
   1.  C. 
   2.  D. 
3. In circle H, the measure of  is 4 times the measure of .

What is the measure of ?

* 1. 36° C. 72°
  2. 135° D. 144°

1. The minute hand on a clock points directly at 12. The hour hand points directly at 4. What is the measure of the smallest arc determined by the 2 hands?
   1. 60° C. 120°
   2. 150° D. 240°



### Use the figure below to answer question

1. The two concentric circles shown in the figure above represent the tire and rim of a wheel on a wagon. The measure of ∠AOB is 50°. What is the measure of ?
   1. 50° C. 100°
   2. 150° D. 200

### Use the figure below to answer question

1. In the circle above, the measure of ∠AEB = 24° and the measure of is 114°. What is the measure of ?
   1. 48° C. 162°
   2. 198° D. 222°

### Use the figure below to answer question.

1. Which is a major arc of circle O above?
   1.  C. 
   2.  D. 

### Use the figure below to answer question

1.  is a diameter of circle B. What is *m*∠ADC?
   1. 85° C. 90°
   2. 95° D. 100°
2. What is the name of a line that intersects a circle in exactly one point?
   1. chord C. secant
   2. diameter D. tangent

### Use the figure below to answer question

1. Given the circle shown above with center C and BC = 10, what is the length of  to the nearest tenth of a unit?
   1. 12.6 C. 13.5
   2. 14.1 D. 14.8