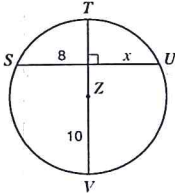
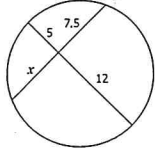
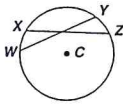
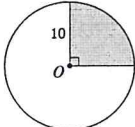
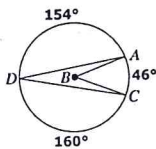
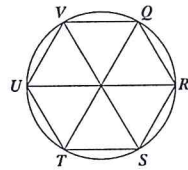
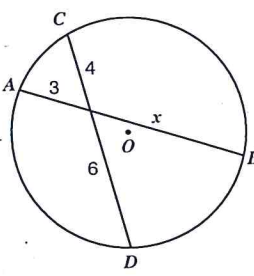
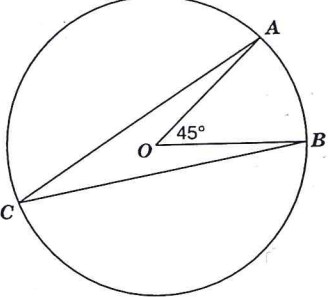


# 9-5 SOL Questions on Circles

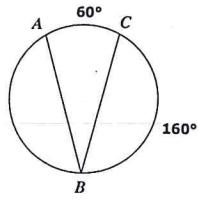
Name: \_\_\_\_\_

Time Start: \_\_\_\_\_ Finish: \_\_\_\_\_

Total Time = \_\_\_\_\_

<p>1. <math>\overline{TV}</math> is a diameter of circle Z.</p>  <p>What is the value of <math>x</math>?</p> <p>A 4 B 6 C 8 D 10</p>	<p>2. Two chords intersect with the measures shown in the drawing.</p>  <p>What is the value of <math>x</math>?</p> <p>F 8.0 G 9.5 H 10.0 J 14.5</p>
<p>3. In circle C, <math>m\widehat{WX} = 25^\circ</math>, <math>m\widehat{XY} = 40^\circ</math>, <math>m\widehat{YZ} = 25^\circ</math>, and <math>WY = 24</math> centimeters.</p>  <p>What is the length of <math>\overline{XZ}</math>?</p> <p>F 12 cm G 24 cm H 25 cm J 65 cm</p>	<p>4. </p> <p>The area of the shaded sector of circle O is —</p> <p>F <math>5\pi</math> G <math>20\pi</math> H <math>25\pi</math> J <math>50\pi</math></p>
<p>5. Given: <math>\odot B</math>.</p>  <p>What is the <math>m\angle ADC</math>?</p> <p>F <math>23^\circ</math> G <math>46^\circ</math> H <math>77^\circ</math> J <math>80^\circ</math></p>	<p>6. In the design, a hexagon is inscribed in a circle.</p>  <p>Which point shows the location of Point Q after a <math>240^\circ</math> clockwise rotation around the center?</p> <p>F S G T H U J V</p>
<p>7. Chords <math>\overline{AB}</math> and <math>\overline{CD}</math> intersect, forming segments with the measures shown.</p>  <p>What is the value of <math>x</math>?</p> <p>F 5 G 8 H 10 J 24</p>	<p>8. </p> <p>If <math>m\angle AOB = 45^\circ</math> in circle O, what is <math>m\angle ACB</math>?</p> <p>A <math>22.5^\circ</math> B <math>45^\circ</math> C <math>67.5^\circ</math> D <math>90^\circ</math></p>

9.

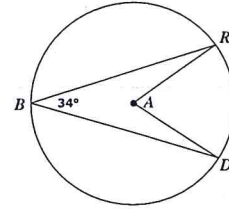


In the circle, what is the measure of  $\angle ABC$ ?

- F  $30^\circ$
- G  $60^\circ$
- H  $120^\circ$
- J  $140^\circ$

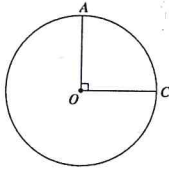
10.

What is  $m\angle DAR$  in circle A?



- A  $17^\circ$
- B  $34^\circ$
- C  $56^\circ$
- D  $68^\circ$

11.



In circle O, the degree measure of  $\widehat{AC}$  is —

- F  $45^\circ$
- G  $90^\circ$
- H  $135^\circ$
- J  $180^\circ$

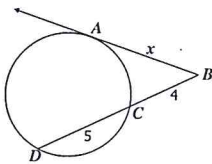
12.

A pizza has a diameter of 16 inches. Which is closest to the area of one slice if the pizza is divided into 6 equal pieces?

- A 134.1 sq in.
- B 117.1 sq in.
- C 67.2 sq in.
- D 33.5 sq in.

13.

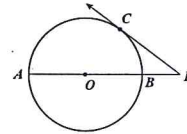
In the diagram,  $\overline{AB}$  is tangent to the circle at point A, and  $\overline{BD}$  intersects the circle at points C and D.



What is the value of  $x$ ?

- F 3
- G 4
- H 5
- J 6

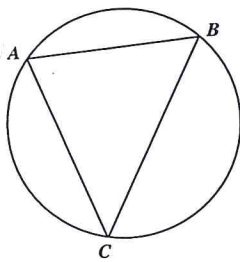
14.



If  $AP = 8$  and  $PC = 4$ , what is the measure of  $\widehat{AB}$ , the diameter of this circle?

- F 2
- G 4
- H 6
- J 8

15.

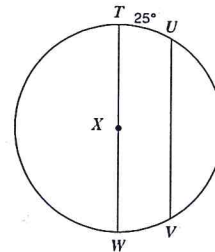


The sum of  $m\widehat{AB}$  and  $m\widehat{BC}$  is equal to —

- A  $360^\circ - m\widehat{AC}$
- B  $240^\circ - m\widehat{AC}$
- C  $180^\circ - m\widehat{AC}$
- D  $120^\circ$

16.

$\overline{TW}$  is a diameter of circle X, and  $\overline{TW}$  is parallel to  $\overline{UV}$ .



If the measure of  $\widehat{TU}$  is  $25^\circ$ , what is the degree measure of  $\widehat{UV}$ ?

- A  $115^\circ$
- B  $130^\circ$
- C  $155^\circ$
- D  $210^\circ$