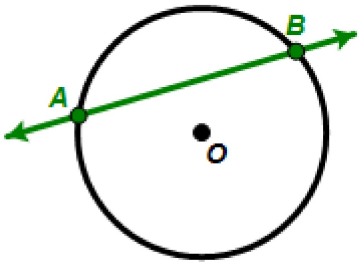
Name: _____ **Class:** _____ **Date:** _____ **ID: A**

04-01-Sample Quiz-Language of Circles

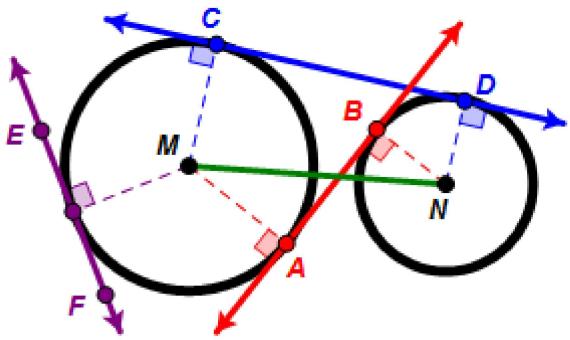
Multiple Choice
Identify the choice that best completes the statement or answers the question.

____ 1. What would be the most correct description of the line $\overleftrightarrow{AB}$ in relation to the circle shown with center ***O***?



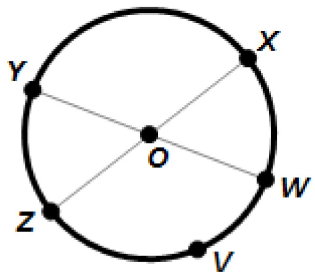
a. Radius
b. Diameter
c. Chord
d. Secant

____ 2. Given the circles shown with centers M and N, which line would represent a **common external tangent**?



a. $\overleftrightarrow{AB}$
b. $\overleftrightarrow{CD}$
c. $\overleftrightarrow{EF}$
d. $\overline{MN}$

____ 3. Which of the arcs listed below represents a **MAJOR ARC**?

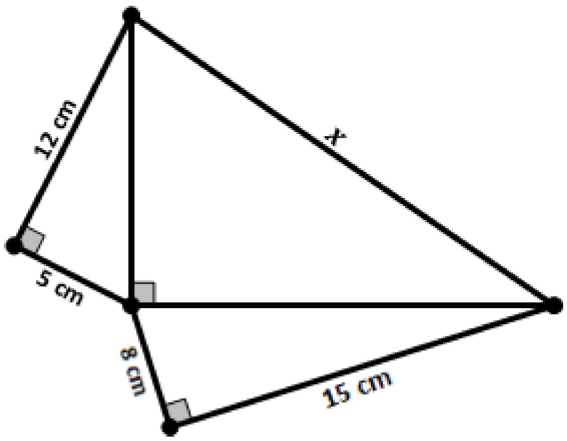


a. $\overset{\frown}{ZVW}$
b. $\overset{\frown}{VZY}$
c. $\overset{\frown}{YVW}$
d. $\overset{\frown}{VXY}$

____ 4.

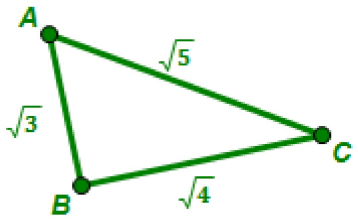
Determine the value of ***x*** shown in the diagram.

(Figure may not be drawn to scale.)



a. $x = \sqrt{30}$
b. $x = \sqrt{60}$
c. $x = \sqrt{221}$
d. $x = \sqrt{458}$

____ 5. Is there enough evidence to suggest that triangle below is a right triangle?
(Figure may not be drawn to scale.)



a. Yes; Triangle ABC is a right triangle.
b. No; Triangle ABC is a **NOT** right triangle.

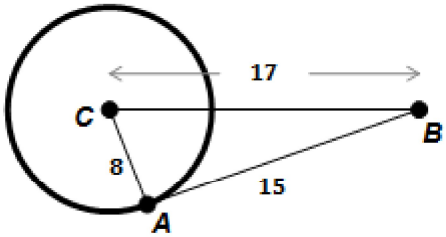
____ 6. Which set of 3 numbers could represent the measures of the three sides of a right triangle?

a. 5 cm, 5 cm, 7 cm
b. 3 cm, 2 cm, 13 cm
c. 11 cm, 60 cm, 61 cm

____ 7.

Based on the measures provided in the diagram, determine if $\overline{AB}$ is tangent to the circle with center C.

(Figure may not be drawn to scale.)



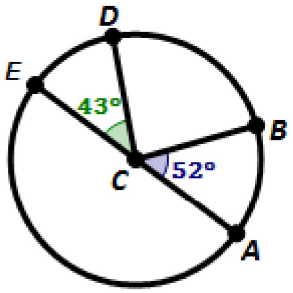
a. Yes; $\overline{AB}$ is tangent because triangle ABC is a right triangle with the right angle at $\angle CAB$
b. No; $\overline{AB}$ is tangent because triangle ABC is a **NOT** a right triangle.

____ 8.

Based on the measures provided in the diagram, determine the measure of $\overset{\frown}{BD}$.

(You may assume that point C is the center of the circle and that AE is a diameter.)

(Figure may not be drawn to scale.)



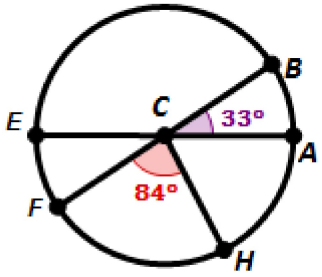
a. 43°
b. 52°
c. 85°
d. 275°

____ 9.

Based on the measures provided in the diagram, determine the measure of $\overset{\frown}{AEF}$.

(You may assume that point C is the center of the circle and that AE and BF are diameters.)

(Figure may not be drawn to scale.)

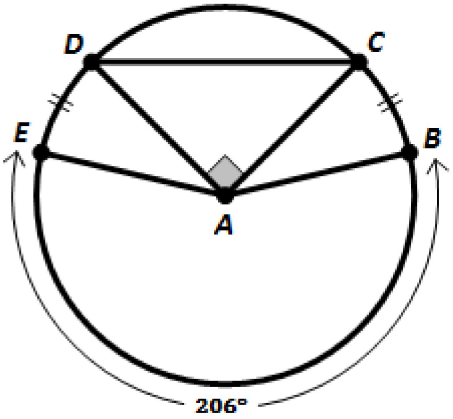


a. 117°
b. 213°
c. 264°
d. 297°

____ 10.

Based on the measures provided in the diagram, determine the measure of $\overset{\frown}{BC}$.

(You may assume that point A is the center of the circle.)



a. 26°
b. 28°
c. 30°
d. 32°