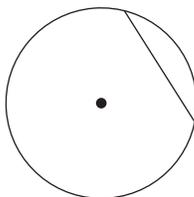


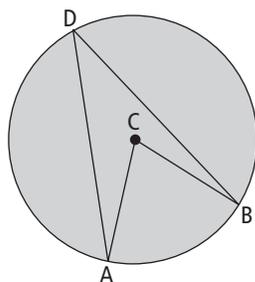
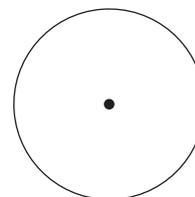
Chapter 10 Test

For #1 to #4, circle the correct answer.

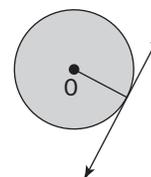
1. The perpendicular line from the centre of a circle to a chord _____ the chord.



- A** bisects **B** intersects **C** is tangent to **D** passes through
2. Which of the following describes an inscribed angle in a circle?
- A** segments that have both endpoints on the circumference of a circle
- B** the angle formed by two chords that share a common endpoint on the circumference of a circle
- C** an angle formed by two radii of a circle where the endpoints are on the circle
- D** an angle where the vertex is inside the circle at the intersection of two chords
3. The measure of the central angle of a circle is _____ the measure of an inscribed angle subtended by the same arc in the circle.



- A** twice **B** half **C** equal to **D** supplementary to
4. Which of the following describes a tangent to a circle?
- A** a line that intersects the circle at two points
- B** a chord that intersects the circle at two points
- C** a line that intersects the circle at only one point
- D** a chord that intersects the circle at only one point



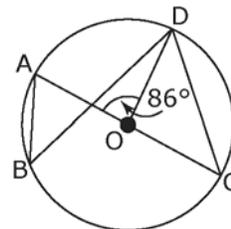
Name: _____

Date: _____

BLM 10-10
(continued)

Use the diagram to complete the statements in #5 to #7.

5. If the measure of $\angle AOD$ is 86° , then the measure of $\angle ACD$ is _____.

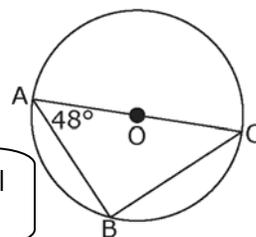


6. The measure of $\angle ACD$ and $\angle ABD$ is the _____

because they are both _____ angles that share the same arc.

Short Answer

7. Use the diagram to find the measure of the following angles.



a) $\angle AOC =$ _____ $^\circ$

Sum of angles in a triangle = 180° .

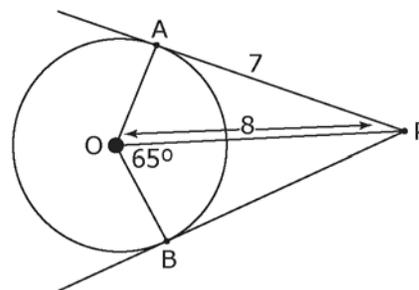
b) $\angle ABC$

$\angle AOC$ is the central angle to $\angle ABC$.

c) $\angle ACB$

8. The centre of the circle is O. PA and PB are tangent to the circle.

a) What is the measure of $\angle PAO$?



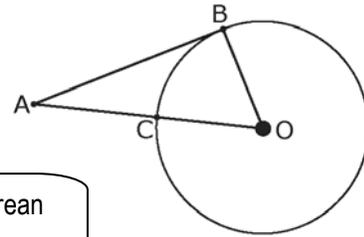
b) What is the length of OA?

Use the Pythagorean relationship.

c) What is the measure of $\angle BPO$?



- 9.** In the diagram, AB is tangent to the circle.
AB = 24 cm
OB = 10 cm



- a)** What is the length of AO?

Use the Pythagorean relationship.

- b)** What is the length of AC?

OC is the radius of the circle.

