

Chapter 10 Practice Test

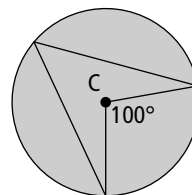
For #1 and #2, choose the best answer.

1. Which statement is true?

- A A central angle is smaller than an inscribed angle with the same end points.
- B Two inscribed angles are never equal in size.
- C An inscribed angle that has the same endpoints as the diameter is always 90° .
- D If a bisector of a chord passes through the centre, the bisector is not perpendicular to the chord.

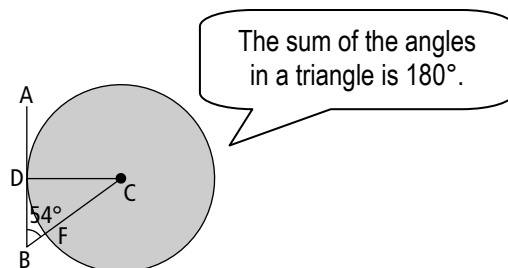
2. What is the measure of the inscribed angle?

- A 25°
- B 50°
- C 100°
- D 200°



Complete the statement in #3.

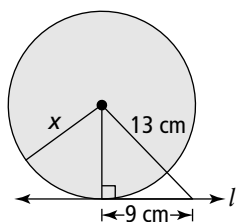
3. If AB is tangent to the circle, the measure of $\angle BCD$ is _____ $^\circ$.



Short Answer

4. What is the length of radius x ?

Round your answer to the nearest tenth of a centimetre (1 decimal place).

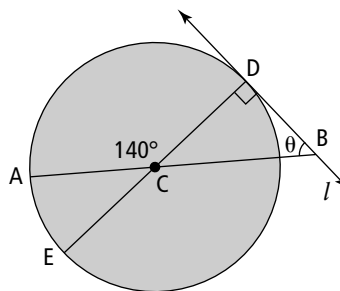


Use the _____ relationship to find the length.

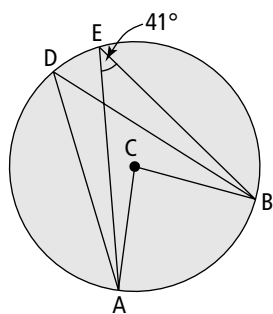
$$\boxed{}^2 + \boxed{}^2 = \boxed{}^2$$

5. Find the measure of $\angle DBC$ if DB is tangent to the circle.

First, find the measure of $\angle DCB$.



6.



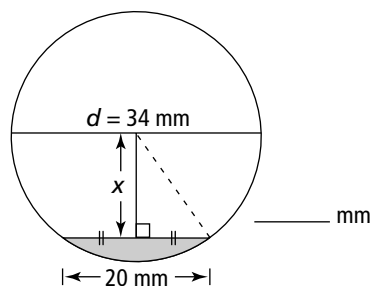
- a) What is the measure of $\angle ADB$? How do you know?

- b) What is the measure of $\angle ACB$? How do you know?

Name: _____

Date: _____

7. This diagram shows the water level inside a pipe.
The diameter of the pipe is 34 mm.
What is the distance from the centre of the pipe to the water level x ?

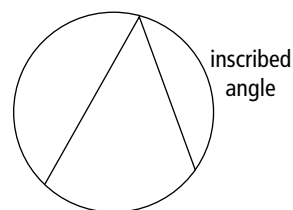
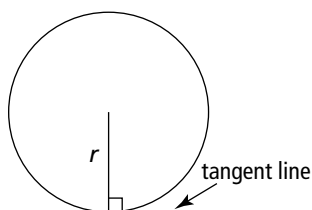
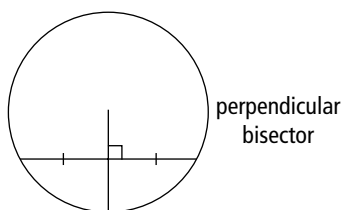
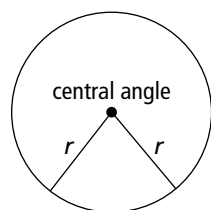


$$\boxed{}^2 + \boxed{}^2 = \boxed{}^2$$

Sentence: _____

Math Link: Wrap It Up!

On a separate sheet of paper, design a piece of art or a logo using at least 2 circles.
Use each circle property at least once:



Use your designs from one of the Math Links on pages 562, 574, or 583. Add any missing properties.