

## Indicators

### Objective:

**3.02 Identify the radius, diameter, chord, center, and circumference of a circle; determine the relationships among them.**

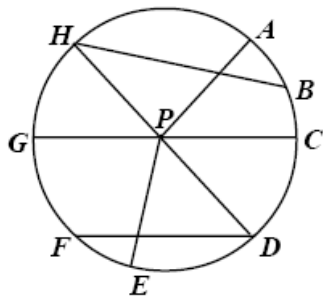
Vocabulary and Resources		
Pi ( $\pi$ )	ratio	proportion

**A.** The circumference of a truck wheel is 9.5 meters. How would you find the diameter of the wheel?

**B.** A circle has a radius of 15 centimeters. How do you find the diameter and circumference of the circle. What is the maximum length of any chord of this circle?

**C.** For circle  $P$ , name the following:

- the center
- a radius
- a diameter
- a chord that is not a diameter



**D.** Select five circular objects and complete the table with the required information.

Object	Circumference	Diameter	$\frac{C}{d}$	$r$	$r^2$	Area

Note any relationships that you observe.

**E.** If a chord of a circle measures 8 centimeters, what is the minimum area the circle could have. Explain.