

Lesson 12 Practice Problems

1. Diego measured the diameter and circumference of several circular objects and recorded his measurements in the table.

object	diameter (cm)	circumference (cm)
half dollar coin	3	10
flying disc	23	28
jar lid	8	25
flower pot	15	48

One of his measurements is inaccurate. Which measurement is it? Explain how you know.

2. Complete the table. Use one of the approximate values for π discussed in class (for example 3.14, $\frac{22}{7}$, 3.1416). Explain or show your reasoning.

object	diameter	circumference
hula hoop	35 in	
circular pond		556 ft
magnifying glass	5.2 cm	
car tire		71.6 in

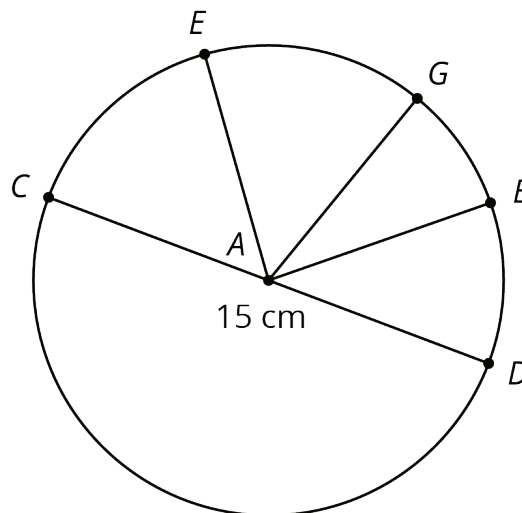
3. A is the center of the circle, and the length of CD is 15 centimeters.

a. Name a segment that is a radius.

How long is it?

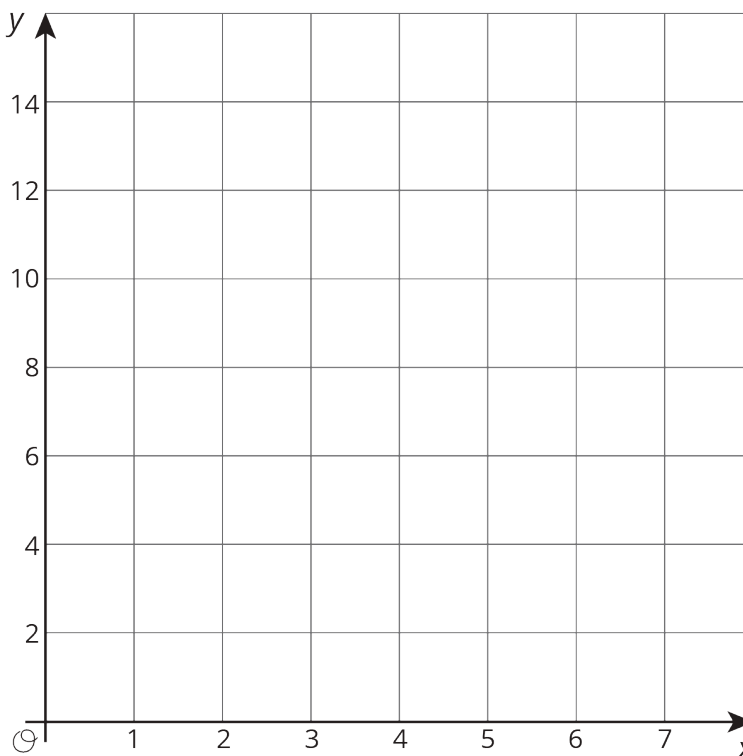
b. Name a segment that is a diameter.

How long is it?



(From Unit 5, Lesson 11.)

4. a. Consider the equation $y = 1.5x + 2$. Find four pairs of x and y values that make the equation true. Plot the points (x, y) on the coordinate plane.



b. Based on the graph, can this be a proportional relationship? Why or why not?

(From Unit 5, Lesson 7.)