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DATE _____

PERIOD _____

Unit 3, Lesson 3: Exploring Circumference

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.

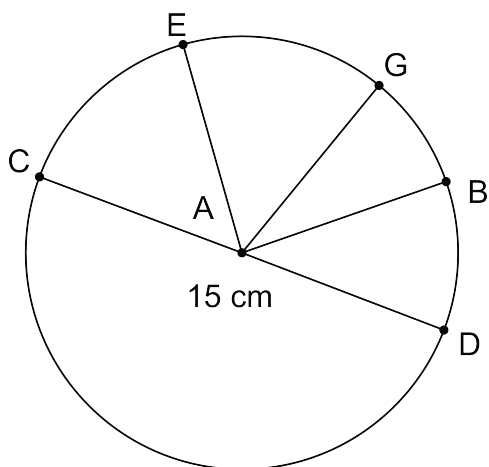
object	diameter	circumference
hula hoop	35 in	
circular pond		556 ft
magnifying glass	5.2 cm	
car tire		71.6 in

3. a. Name a segment that is a radius. How long is it?
- b. Name a segment that is a diameter. How long is it?

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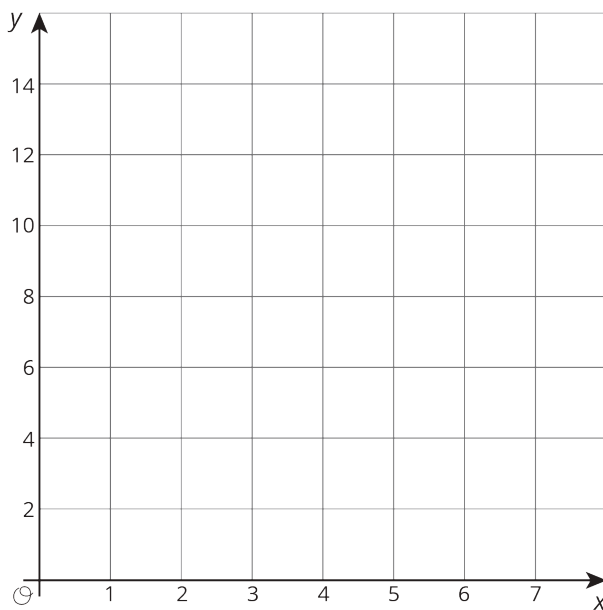
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PERIOD



(from Unit 3, Lesson 2)

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 2, Lesson 10)