### 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.
1. 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
 |

1. $A$ is the center of the circle, and the length of $CD$ is 15 centimeters.
	1. Name a segment that is a radius. How long is it?
	2. Name a segment that is a diameter. How long is it?
* 
* (From Unit 5, Lesson 11.)
	1. 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.
	+ 
	1. Based on the graph, can this be a proportional relationship? Why or why not?
* (From Unit 5, Lesson 7.)



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