

Pi, Circumference, and Diameter: Lesson 1

Complete each statement about the properties of circles. Write *center*, *chord*, *circle*, *congruent*, *diameter*, or *radius* in each blank.

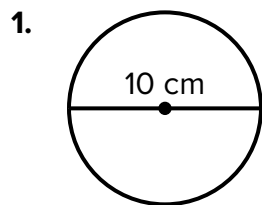
1. A plane figure is formed by all the points that lie the same distance from a center point. The figure is a _____.
2. A line segment has one endpoint on a circle and the other endpoint at the center of the circle. The line segment is a _____.
3. A line segment has both endpoints on a circle. The line segment is a _____.
4. A line segment has both endpoints on a circle. It passes through the center of the circle. The line segment is a _____.
5. Two line segments are radii of the same circle. The line segments must be _____.
6. A line segment is the longest possible chord in a circle. The line segment is a _____.
7. A line segment is a diameter of a circle. The line segment is twice the length of a _____ of the circle.
8. Two points lie on the same circle. Both points are the same distance from the _____ of the circle.
9. A chord divides a circle in half. The chord is the _____ of the circle.
10. A line segment is a radius of a circle. The line segment is half the length of the circle's _____.

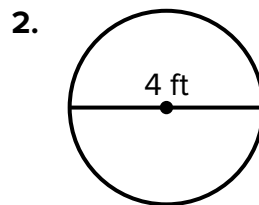
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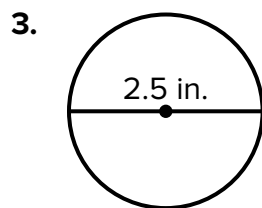
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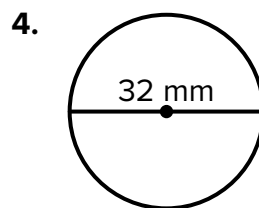
Pi, Circumference, and Diameter: Lesson 2

Determine the circumference of each circle. Use 3.14 for π . Round to the nearest whole unit.

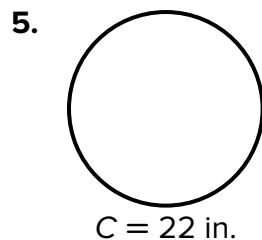


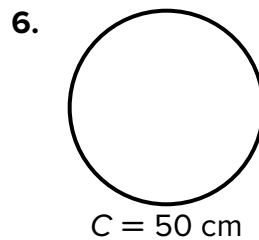


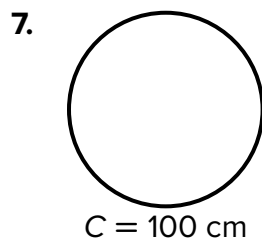


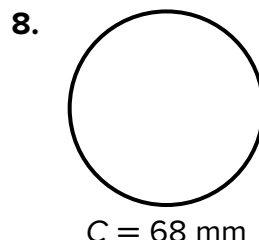


Determine the diameter of each circle. Use 3.14 for π . Round to the nearest whole unit.









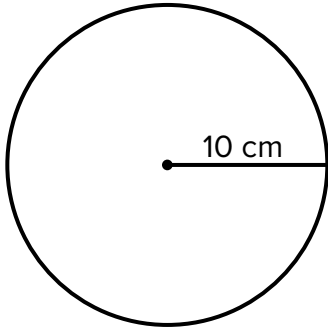
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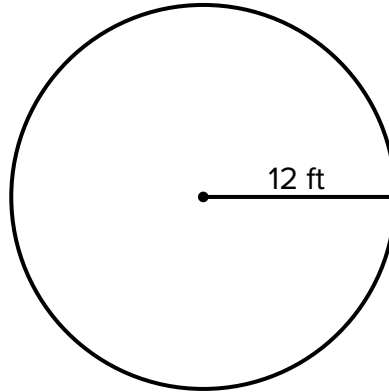
Pi, Circumference, and Diameter: **Lesson 3**

Determine the area of each circle. Use 3.14 for π . Show your work.

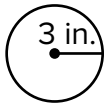
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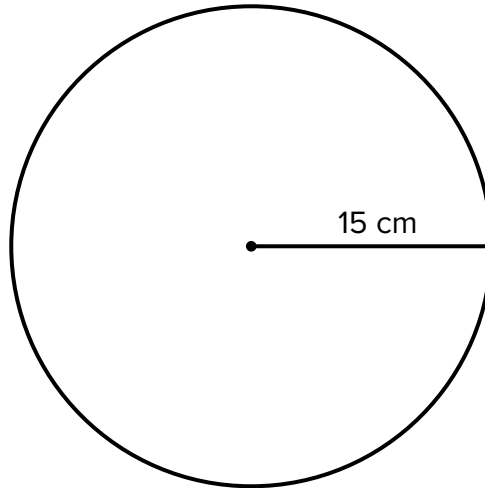
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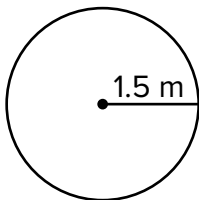
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Name _____

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Pi, Circumference, and Diameter: **Lesson 4**

Solve each problem. Use 3.14 for π .

1. A paint can has a circular lid with a radius of 3 inches. What is the area of the lid?

2. A circular bracelet has a diameter of 8 centimeters. What is the circumference of the bracelet?

3. A circular patio has a radius of 6 feet. What is the distance around the patio?

4. A circular baby pool has a radius of 2 meters. How much space on the ground does the baby pool cover?

5. The diameter of a dinner plate is 25 centimeters. The diameter of a dessert plate is 20 centimeters. What is the difference in the circumferences of the two plates?

6. The circular broadcast signal for a radio station reaches a radius of between 10 and 12 miles. What are the least and greatest number of square miles the broadcast covers?
