

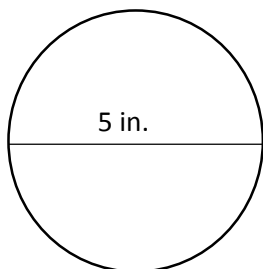
NAME \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

**Directions: Find the circumference and area of each circle. Round to the nearest hundredth.**

Area of a circle:  $A = \pi r^2$

Circumference of a circle:  $C = \pi d$  or  $C = 2\pi r$

1.

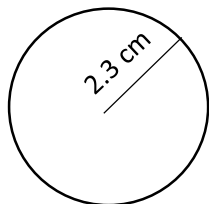


Circumference = \_\_\_\_\_

Area = \_\_\_\_\_

Use  $\pi = 3.14$

2.

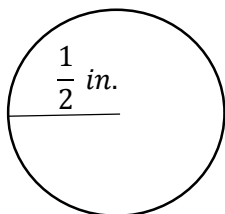


Circumference = \_\_\_\_\_

Area = \_\_\_\_\_

Use  $\pi = 3.14$

3.

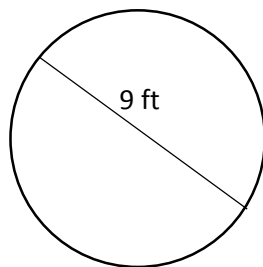


Circumference = \_\_\_\_\_

Area = \_\_\_\_\_

Use  $\pi = \frac{22}{7}$

4.



Circumference = \_\_\_\_\_

Area = \_\_\_\_\_

Use  $\pi = \frac{22}{7}$

5. Radius = 4.25 mi

Circumference = \_\_\_\_\_

Area = \_\_\_\_\_

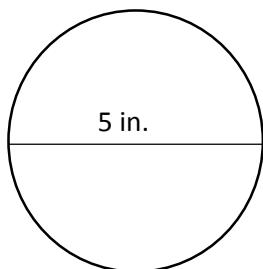
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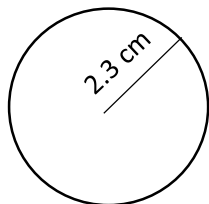
Circumference of a circle:  $C = \pi d$  or  $C = 2\pi r$

**ANSWER KEY**

Circumference:  $3.14(5) = 15.7$  in.

Area:  $3.14(2.5^2) = 19.63$  in.<sup>2</sup>

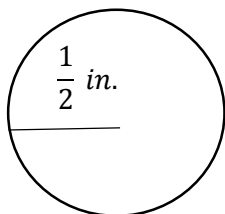
Use  $\pi = 3.14$



Circumference:  $2(3.14)(2.3) = 14.44$  cm

Area:  $3.14(2.3^2) = 16.61$  cm<sup>2</sup>

Use  $\pi = 3.14$

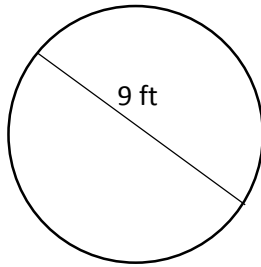


Circumference:  $2\left(\frac{22}{7}\right)\left(\frac{1}{2}\right) = \frac{22}{7} = 3.14$  in.

Area:  $\frac{22}{7}\left(\frac{1}{2}\right)^2 = \frac{11}{14} = 0.79$  in.<sup>2</sup>

Use  $\pi = \frac{22}{7}$

U5 L4-3



## Circumference and Area of a Circle

7.G.4

$$\text{Circumference: } \frac{22}{7} (9) = \frac{198}{7} = 28.29\text{ft}$$

$$\text{Area: } \frac{22}{7} \left(\frac{9}{2}\right)^2 = \frac{891}{14} = 63.64\text{ft}^2$$

$$\text{Use } \pi = \frac{22}{7}$$

Radius = 4.25 mi

$$\text{Circumference: } 2(3.14)(4.25) = 26.69 \text{ mi}$$

$$\text{Area: } 3.14(4.25^2) = 56.72 \text{ mi}^2$$

$$\text{Use } \pi = 3.14$$