7.G.4
Formative Assessment
Practice Problems

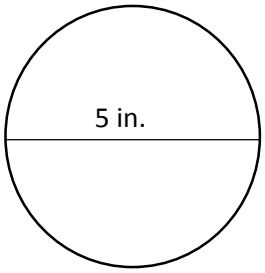
NAME _____ Date _____ Period _____

Circumference and Area of a Circle

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.

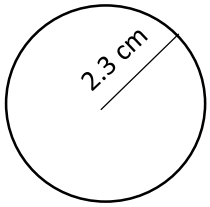


Circumference= _____

Area = _____

Use $\pi = 3.14$

2.

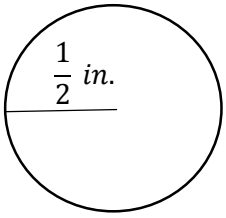


Circumference = _____

Area = _____

Use $\pi = 3.14$

3.

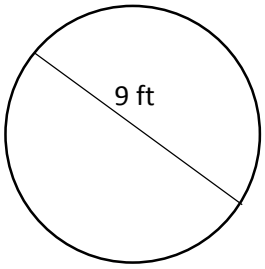


Circumference = _____

Area = _____

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

4.



Circumference = _____

Area = _____

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

5. Radius = 4.25 mi

Circumference = _____

Area = _____

Use $\pi = 3.14$

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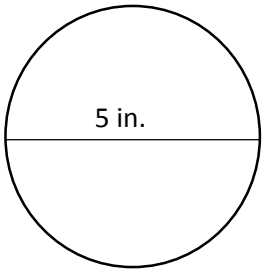
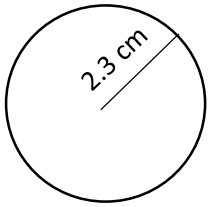
ANSWER KEY



Circumference: 3.14(5) = 15.7 in.

Area: $3.14(2.5^2) = 19.63$ in.^{2}

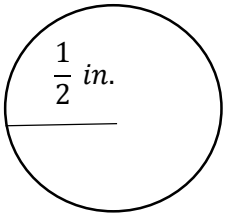
Use $\pi = 3.14$



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

Area: $3.14(2.3^2) = 16.61$ cm^2

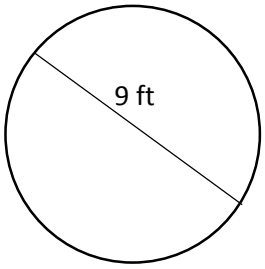
Use $\pi = 3.14$



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

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

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



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

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

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

Radius = 4.25 mi

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

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

Use $\pi = 3.14$