





Perimeter, Area, & Volume Review

I can determine which unit to use for perimeter, area, or volume.



Notes:

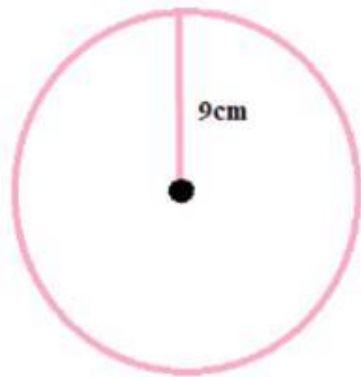
- Perimeter is one dimension.
Measured in cm, m, in, ft, yd.
- Area is two dimensions.
Measured in cm^2 , m^2 , in^2 , ft^2 , yd^2 .
- Volume is three dimensions.
Measured in cm^3 , m^3 , in^3 , ft^3 , yd^3 .

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- 2 of 6
- π is always in the area and volume formulas for circles, cones, cylinders, and spheres.
 - Diameter is the length across a circle going through the center. $d = 2r$.

- Radius is the length from the center to the edge of the circle. $r = \frac{1}{2} d$.

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

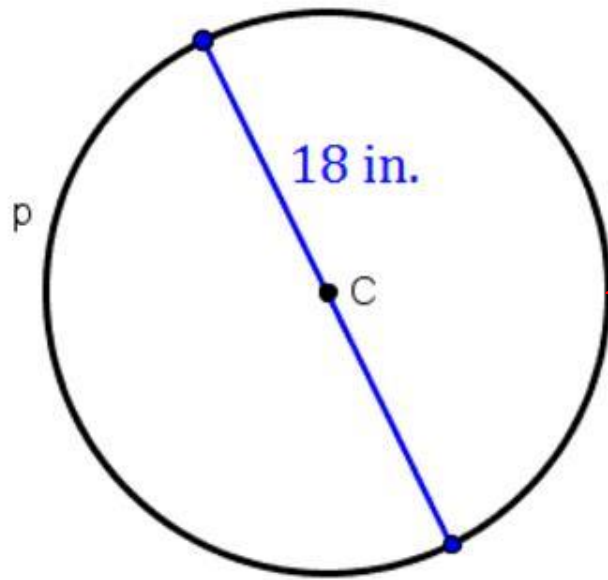
Find the area of the following circles.
Give answers in π and an
approximation using 3.14 for π .



$$A = \pi r^2$$
$$A = \pi 9^2$$
$$A = 81\pi \text{ cm}^2$$

$$A = \pi r^2$$
$$A = 3.14 \cdot 9^2$$
$$A = 254.34 \text{ cm}^2$$

2.



$$A = \pi r^2$$
$$A = \pi 9^2$$

$$A = 81\pi \text{ in}^2$$

$$A = \pi r^2$$

$$A = 3.14 \cdot 9^2$$

$$A = 254.34 \text{ in}^2$$

3. Find the radius of a circle with an area of 121π m².

$$A = \pi r^2$$

$$\frac{121\pi}{\pi} = \frac{\pi r^2}{\pi}$$

$$\sqrt{121} = \sqrt{r^2}$$
$$11\text{m} = r$$

4. Find the diameter of a circle with an area of 254.34 m².

$$A = \pi r^2$$
$$\frac{254.34}{3.14} = \frac{3.14 r^2}{3.14}$$

$$\sqrt{81} = \sqrt{r^2}$$
$$9 \text{ m} = r$$

$$d = 2r$$
$$d = 2 \cdot 9$$
$$d = 18 \text{ m}$$

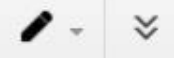
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Assignment: Area of circles worksheet.

