

1) A carpenter needs to tile around a circular pool. The pool has a diameter of 18.25 feet. What is the circumference? Round to the nearest hundredth

$$C = \pi d$$

$$C = \pi(18.25 \text{ ft})$$

$$C = 57.33 \text{ ft}$$

2) A farmer would like to build a round garden. How many feet of fence does she need if she wants the garden to be 25 feet across? Round to the nearest hundredth

$$C = \pi d$$

$$C = \pi(25)$$

$$C = 78.54 \text{ ft}$$

3) What is the circumference of circle that has a radius of 4.55 inches? Round to the nearest hundredth

$$C = 2\pi r$$

$$C = 2\pi(4.55)$$

$$C = 28.59 \text{ inches}$$

4) What is the circumference of circle that has a diameter of 62 inches? Round to the nearest hundredth.

$$C = \pi d$$

$$C = 62\pi$$

$$C = 194.78 \text{ inches}$$

5) A circle measures 109.96 feet if you walk around it. How far would it be to walk directly through the center of the circle from one side to the other? Round to the nearest hundredth

$$C = \pi d$$

$$109.96 = \pi d$$

$$\frac{109.96}{\pi} = d$$

$$d = 35 \text{ ft}$$

6) A circle has a circumference of 25.68 inches. What is the radius? Round to the nearest hundredth.

$$C = 2\pi r$$

$$\frac{25.68}{2\pi} = \frac{2\pi r}{2\pi}$$

$$4.09 = r$$

$$r = 4.09 \text{ in}$$