Circumference

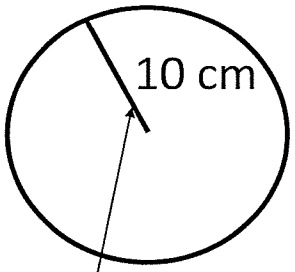
Given a radius.

$$C = 2\pi r$$

$$C = 2\,(3.14)(\text{radius})$$

$$C = 2\,(3.14)\,(10)$$

$$C = 62.8 \text{ cm}$$



This is a radius. It is from the center of the circle to the outside of the circle.

Circumference

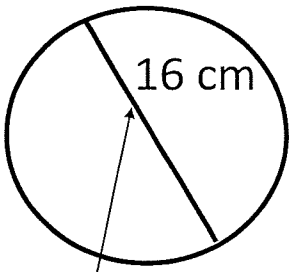
Given a diameter.

$$C = \pi d$$

$$C = (3.14)(\text{diameter})$$

$$C = (3.14)\,(16)$$

$$C = 50.24 \text{ cm}$$



This is a diameter. It goes from one side of the circle to the other, through the

AREA of A Circle

Given a radius.

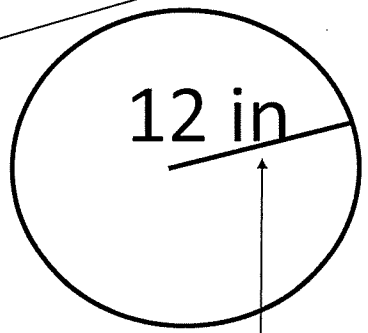
$$A = \pi r^2$$

$$A = 3.14(\text{Radius}^2)$$

$$A = 3.14\ (12^2)$$

$$A = 3.14\ (144)$$

$$A = 452.16\ \text{in}^2$$



This is a radius. It is from the center of the circle to the outside of the circle.

AREA of A Circle

Given a diameter.

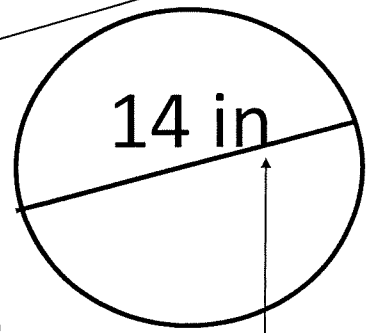
$$A = \pi r^2$$

$$A = 3.14(\text{Radius}^2)$$

$$A = 3.14\ (7^2)$$

$$A = 3.14\ (49)$$

$$A = 153.86\ \text{in}^2$$



This is a diameter. You must divide this by 2 in order to get the radius you need. So, $14 \div 2 = 7$. So, your radius is 7, not 14.