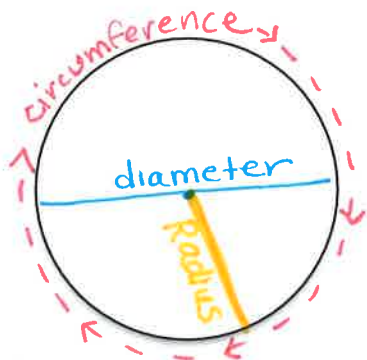


**Circumference of a Circle**

Circle:

$$d = 2r$$

$$r = \frac{1}{2}d$$



Diameter - The distance across a circle, going through the center.

Circumference: The distance around a circle.

$$C = \pi d \quad \text{or} \quad C = 2\pi r$$

Radius - The distance from the center, to any point on the circle.

- 1) The diameter of a circle is 28 feet. Find the circumference of the circle to the nearest foot.

$$C = \pi d \quad C = (3.14)(28) \quad C \approx 88 \text{ ft}$$

- 2) The radius of a circle is 4 inches. Find the circumference of the circle to the nearest inch.

$$C = 2\pi r \quad C = (3.14)(4) \quad C \approx 25 \text{ in}$$

- 3) The circumference of a circle is 70 inches. Find the radius of the circle to the nearest inch.

$$C = 2\pi r$$

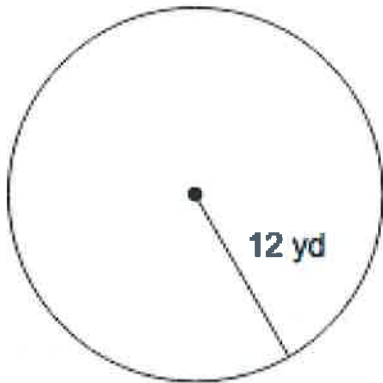
$$70 = 2(3.14)r$$

$$70 = 6.28r$$

$$11.15 = r$$

$$11 \text{ in} \approx r$$

4)

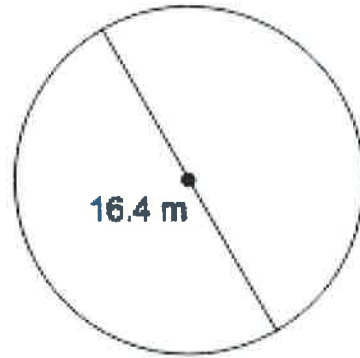


$$C = 2\pi r$$

$$C = 2(3.14)(12)$$

$$C \approx 75 \text{ yd}$$

5)

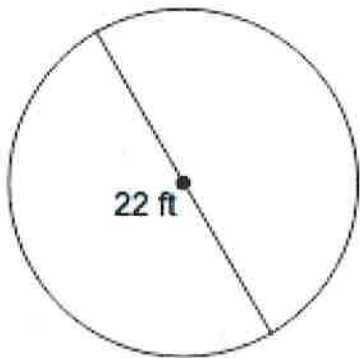


$$C = \pi d$$

$$C = (3.14)(16.4)$$

$$C \approx 51 \text{ m}$$

6)

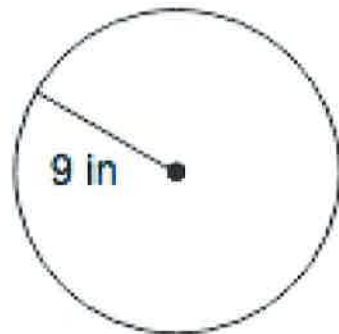


$$C = \pi d$$

$$C = (3.14)(22)$$

$$C \approx 69 \text{ ft}$$

7)



$$C = 2\pi r$$

$$C = 2(3.14)(9)$$

$$C \approx 57 \text{ in}$$