

Examples:

1. If a circle has a diameter of 15 cm, what is the Circumference? (write your answer in terms of pi and as a decimal approximation)

$$C = \pi d$$

$$C = \pi(15) = 15\pi \text{ cm}$$

$$C \approx (15)(3.14) \approx 47.1 \text{ cm}$$

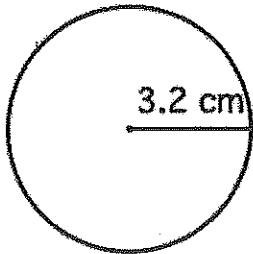
2. If a circle has a radius of 5.8 cm, what is the Circumference? (write your answer in terms of pi and as a decimal approximation)

$$C = 2\pi r$$

$$C = 2\pi(5.8) = 11.6\pi \text{ cm}$$

$$C \approx (11.6)(3.14) \approx 36.424 \text{ cm}$$

3. Find the circumference of the circle (give your answer in terms of pi).

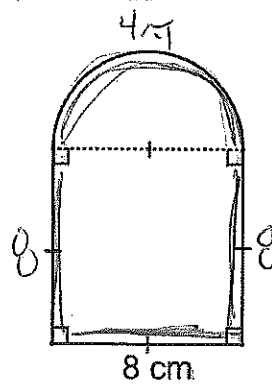


$$C = 2\pi r$$

$$C = 2\pi(3.2)$$

$$C = 6.4\pi \text{ cm}$$

4. Find the distance around the outside of this figure. (write your answer in terms of pi and as a decimal approximation)



$$\text{distance} = 8 + 8 + 8 + 4\pi$$

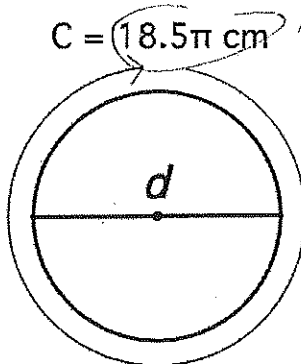
$$(24 + 4\pi) \text{ cm}$$

$$d \approx 24 + 4(3.14)$$

$$\approx 36.56 \text{ cm}$$

A small circle with diameter 8. $C = 8\pi$
so $\frac{1}{2}$ circle $\frac{1}{2}C = 4\pi$

5. Find the diameter of the circle.



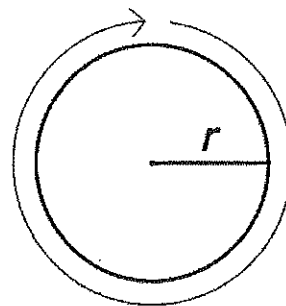
$$C = \pi d$$

$$\frac{18.5\pi}{\pi} = \frac{\pi d}{\pi}$$

$$18.5 = d \text{ cm}$$

6. Find the radius of the circle.

$$C = 14.96\pi \text{ cm}$$



$$C = 2\pi r$$

$$\frac{14.96\pi}{\pi} = \frac{2\pi r}{\pi}$$

$$14.96 = \frac{2r}{2}$$

$$7.48 = r \text{ cm}$$