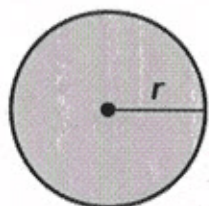


Use pi button for  $\pi$ . Round answers to the nearest hundredth.

Write and solve an equation to find the missing dimension of the circle.

1. Diameter = 6 ft (3 pts)  
 Radius = ?

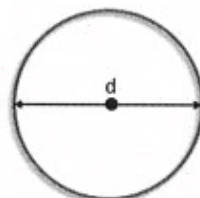


$$r = \frac{d}{2}$$

$$r = \frac{6}{2}$$

$$r = 3 \text{ ft}$$

- Radius = 112 m (3 pts)  
 Diameter = ?



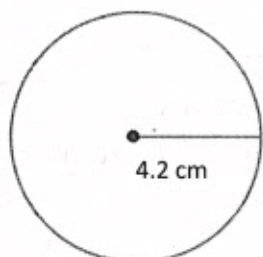
$$d = 2r$$

$$d = 2(112)$$

$$d = 224 \text{ m}$$

Find the circumference AND area of the circle. State your answer in terms of  $\pi$ .

- 2.



$$r = 4.2 \text{ cm}$$

Circumference (5 pts)

$$C = 2\pi r$$

$$C = 2\pi(4.2)$$

$$C = 8.4\pi \text{ cm}$$

Area (5 pts)

$$A = \pi r^2$$

$$A = \pi(4.2)^2$$

$$A = \pi(17.64)$$

$$A = 17.64\pi \text{ cm}^2$$

3. A child's pool is in the shape of a circle. The circumference is about  $12\pi$  feet.

- a. What is the radius of the pool? (3 pts)

$$C = 2\pi r$$

$$\frac{12\pi}{2} = \frac{2\pi r}{2}$$

$$\frac{6\pi}{\pi} = \frac{\pi r}{\pi}$$

$$6 = r$$

$$r = 6 \text{ ft}$$

- b. What is the area of the pool? (3 pts)

$$A = \pi r^2$$

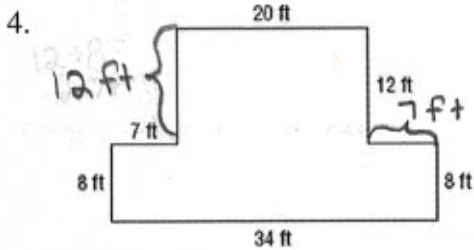
$$A = \pi(6)^2$$

$$A = \pi(36)$$

$$A \approx 113.097$$

$$A \approx 113.10 \text{ ft}^2$$

Find the perimeter OR area of the figures below.

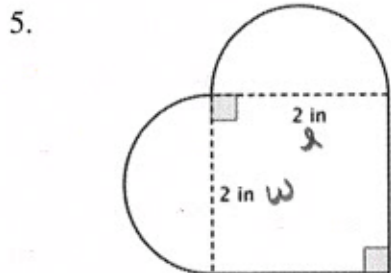


Perimeter (5 pts)

$P = \text{sum of sides}$

$$P = 20 + 12 + 7 + 8 + 34 + 8 + 7 + 12$$

$$P = 108 \text{ ft}$$



Area (5 pts)

\*one full\*  
circle

Semicircles (2)

$$A = \pi r^2$$

$$A = \pi (1)^2$$

$$A = \pi (1)$$

$$A \approx 3.14$$

$$A \approx 3.14 \text{ in}^2$$

Square

$$A = lw$$

$$A = 2(2)$$

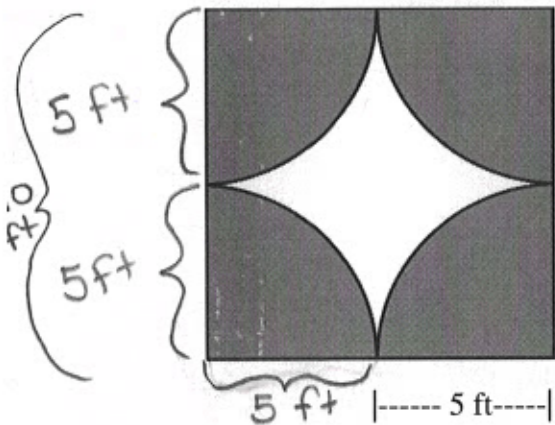
$$A = 4 \text{ in}^2$$

Total Area

$$A \approx 3.14 + 4$$

$$A \approx 7.14 \text{ in}^2$$

6. Find the area of the unshaded region of the square. (8 pts)



\* Find UNSHADED \*

Square

$$A = lw$$

$$A = 10(10)$$

$$A = 100 \text{ ft}^2$$

\*one full  
circle\*

Quarter Circles (4)

$$A = \pi r^2$$

$$A = \pi (5)^2$$

$$A = \pi (25)$$

$$A \approx 78.53$$

$$A \approx 78.54 \text{ ft}^2$$

\* Square \*

$$r = 5 \text{ ft}$$

Total unshaded

$$A \approx 100 - 78.54$$

$$A \approx 21.46 \text{ ft}^2$$