

Name : _____

Score : _____

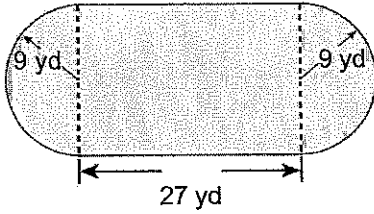
Teacher : _____

Date : _____

Compound Shapes

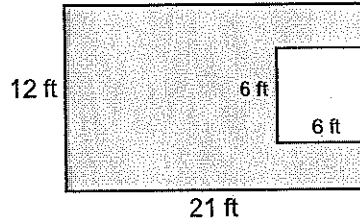
Find the area of each figure, round your answer to one decimal place if necessary.

1)



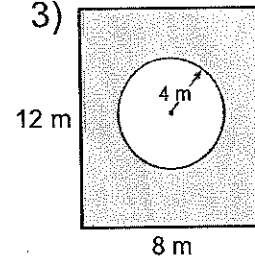
Area: _____

2)



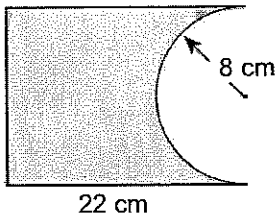
Area: _____

3)



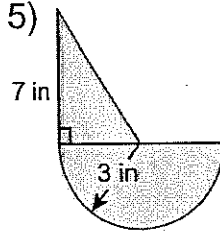
Area: _____

4)



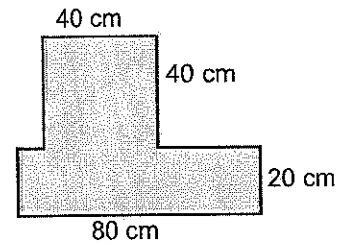
Area: _____

5)



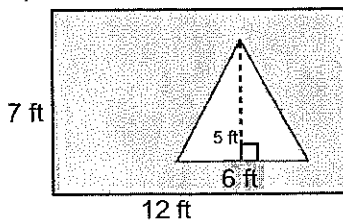
Area: _____

6)



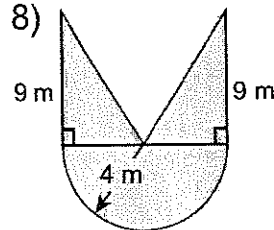
Area: _____

7)



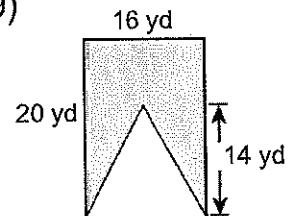
Area: _____

8)



Area: _____

9)



Area: _____



Compound Shapes

1) Area of Rectangle + Area of Circle

$$\begin{aligned} A_R &= L \times W & A_C &= \pi r^2 \\ &= 27 \times 18 & &= 3.14 \times 9^2 \\ &= 486 \text{ yd}^2 & &= 254.34 \text{ yd}^2 \end{aligned} +$$

$$\boxed{= 740.34 \text{ yd}^2}$$

2) Area of Rectangle - Area of Square

$$\begin{aligned} A_R &= L \times W & A_S &= s^2 \\ &= 21 \times 12 & &= 6 \times 6 \\ &= 252 \text{ ft}^2 & &= 36 \text{ ft}^2 \end{aligned} -$$

$$\boxed{= 216 \text{ ft}^2}$$

3) Area of Rectangle - Area of Circle

$$\begin{aligned} A_R &= L \times W & A_C &= \pi r^2 \\ &= 8 \times 12 & &= 3.14 \times 4^2 \\ &= 96 \text{ m}^2 & &= 50.24 \text{ m}^2 \end{aligned} -$$

$$\boxed{= 45.76 \text{ m}^2}$$

4) Area of Rectangle - $\frac{1}{2}$ Area of Circle

$$\begin{aligned} A_R &= L \times W & & \left(\begin{aligned} A_C &= \pi r^2 \\ &= 3.14 \times 8^2 \\ &= 200.96 \text{ cm}^2 \end{aligned} \right) \div 2 \\ &= 22 \times 16 & & \\ &= 352 \text{ cm}^2 & & = 100.48 \text{ cm}^2 \end{aligned} -$$

$$\boxed{= 251.52 \text{ cm}^2}$$

5) Area of Triangle + $\frac{1}{2}$ Area of Circle

$$A_T = \frac{bh}{2} + \left(\begin{array}{l} A_C = \pi r^2 \\ = 3.14 \times 3^2 \\ = 28.26 \text{ in}^2 \end{array} \right) \div 2$$
$$= \frac{(3)(7)}{2} = 10.5 \text{ in}^2$$

$$= 24.63 \text{ in}^2$$

6) Area of Square + Area of Rectangle

$$A_S = s^2 = (40)(40) = 1600 \text{ cm}^2$$
$$A_R = L \times W = 80 \times 20 = 1600 \text{ cm}^2$$

$$= 3200 \text{ cm}^2$$

7) Area of Rectangle - Area of Triangle

$$A_R = L \times W = 12 \times 7 = 84 \text{ ft}^2$$
$$A_T = \frac{bh}{2} = \frac{(6)(5)}{2} = 15 \text{ ft}^2$$

$$= 69 \text{ ft}^2$$

8) Area of Triangle(s) + $\frac{1}{2}$ Area of Circle

$$\left(\begin{array}{l} A_T = \frac{bh}{2} \\ = \frac{(4)(9)}{2} \\ = 18 \text{ m}^2 \end{array} \right) \times 2 +$$

$$\begin{array}{l} A_C = \pi r^2 \\ = 3.14 \times 4^2 \\ = 50.24 \text{ m}^2 \end{array}$$

$$= 86.24 \text{ m}^2$$

9) Area of Rectangle - Area of Triangle

$$\begin{array}{l} A_R = L \times W \\ = 16 \times 20 \\ = 320 \text{ yd}^2 \end{array}$$

$$\begin{array}{l} A_T = \frac{bh}{2} \\ = \frac{(16)(14)}{2} \\ = 112 \text{ yd}^2 \end{array}$$

$$= 208 \text{ yd}^2$$