

Geometry – Area of Composite Shapes

Find the area (or shaded area) of each shape.

1)

$A_A = \frac{1}{2}bh$
 $= \frac{1}{2} \cdot 8 \cdot 7$
 $= \frac{1}{2} \cdot 56$
 $= 28$

$A_B = bh$
 $= 8 \cdot 3$
 $= 24$

$Total = 28 + 24$
 $= 52 ft^2$

2)

$A_A = bh$
 $= 12 \cdot 3$
 $= 36$

$A_B = bh$
 $= 4 \cdot 3$
 $= 12$

$Total = 36 + 12$
 $= 48 m^2$

3)

$A = \frac{1}{2}bh$
 $= \frac{1}{2} \cdot 6 \cdot 8$
 $= \frac{1}{2} \cdot 48$
 $= 24 cm^2$

4)

$A_A = bh$
 $= 10 \cdot 15$
 $= 150$

$A_B = \frac{1}{2}bh$
 $= \frac{1}{2} \cdot 10 \cdot 7$
 $= \frac{1}{2} \cdot 70$
 $= 35$

$Total = 150 + 35 = 185 yd^2$

5)

$A = \frac{1}{2}(b_1 + b_2)h$
 $= \frac{1}{2}(4 + 2)3$
 $= \frac{1}{2}(6)3$
 $= \frac{1}{2}(18)$
 $= 9 mi^2$

6)

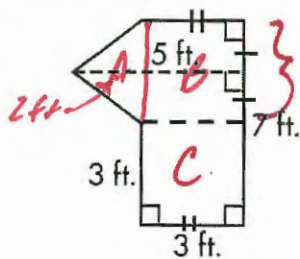
$A_A = bh$
 $= 2 \cdot 2$
 $= 4$

$A_B = bh$
 $= 4 \cdot 2$
 $= 8$

$A_C = bh$
 $= 4 \cdot 2$
 $= 8$

$Total = 4 + 8 + 8$
 $= 20 in^2$

7)



$$A_A = \frac{1}{2}bh$$

$$= \frac{1}{2} \cdot 3 \cdot 2$$

$$= \frac{1}{2} \cdot 6$$

$$= 3$$

$$A_B = bh$$

$$= 3 \cdot 3$$

$$= 9$$

$$A_C = bh$$

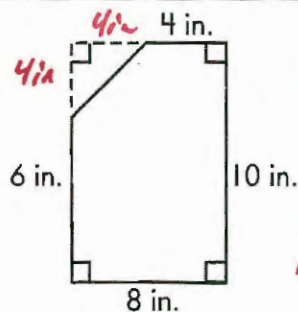
$$= 3 \cdot 3$$

$$= 9$$

$$Total = 3 + 9 + 9$$

$$= 21 \text{ ft}^2$$

8)



$$A_{\text{Rectangle}} = bh$$

$$= 8 \cdot 10$$

$$= 80$$

$$A_{\text{Triangle}} = \frac{1}{2}bh$$

$$= \frac{1}{2} \cdot 8 \cdot 4$$

$$= \frac{1}{2} \cdot 32$$

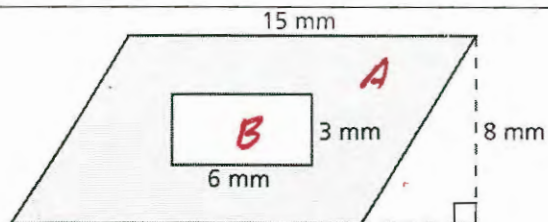
$$= 16$$

$$A_{\text{shaded}} = \text{Rectangle} - \text{Triangle}$$

$$= 80 - 16$$

$$= 64 \text{ in}^2$$

9)



$$A_A = bh$$

$$= 6 \cdot 8$$

$$= 48$$

$$A_B = bh$$

$$= 6 \cdot 3$$

$$= 18$$

$$A_{\text{shaded}} = 48 - 18$$

$$= 30 \text{ mm}^2$$