

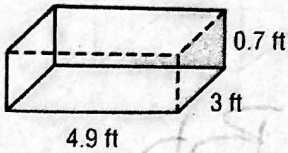
Name _____

Key

N/u - HW
W/u #9

Find the surface area of each.

1)

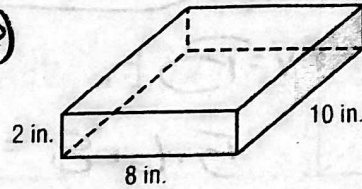


$$SA = 2 \cdot 4.9 \cdot 3 + 2 \cdot 4.9 \cdot 0.7 + 2 \cdot 3 \cdot 0.7$$

$$29.4 + 6.86 + 4.2$$

$$\boxed{40.46 \text{ ft}^2}$$

2)

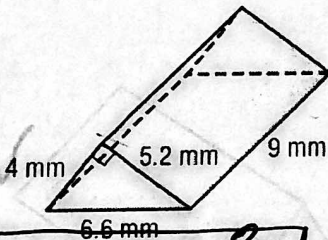


$$SA = 2 \cdot 8 \cdot 2 + 2 \cdot 8 \cdot 10 + 2 \cdot 2 \cdot 10$$

$$32 + 160 + 40$$

$$\boxed{232 \text{ in}^2}$$

3)



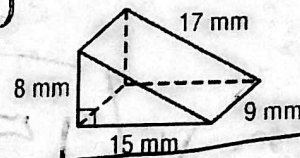
$$SA = \boxed{163 \text{ mm}^2}$$

$$2 \times \triangle \begin{matrix} 5.2 \\ 4 \\ 9 \end{matrix} \quad 2 \cdot \frac{1}{2} \cdot 4 \cdot 5.2 = 20.8$$

$$\begin{matrix} 9 \\ 9 \\ 9 \end{matrix} \times \begin{matrix} 4 \\ 5.2 \\ 6.6 \end{matrix} = \begin{matrix} 36 \\ 46.8 \\ 59.4 \end{matrix}$$

$$\boxed{163 \text{ mm}^2}$$

4)



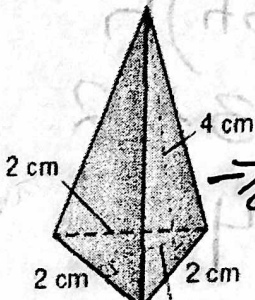
$$SA = \boxed{480 \text{ mm}^2}$$

$$2 \times \triangle \begin{matrix} 8 \\ 15 \\ 17 \end{matrix} \quad 2 \cdot \frac{1}{2} \cdot 8 \cdot 15 = 120$$

$$\begin{matrix} 9 \\ 9 \\ 9 \end{matrix} \times \begin{matrix} 8 \\ 15 \\ 17 \end{matrix} = \begin{matrix} 72 \\ 135 \\ 153 \end{matrix}$$

$$\boxed{480 \text{ mm}^2}$$

5)



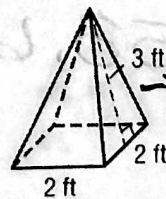
$$SA = \boxed{13.7 \text{ cm}^2}$$

$$\triangle \begin{matrix} 1.7 \\ 2 \end{matrix} \quad \frac{1}{2} \cdot 2 \cdot 1.7 = 1.7$$

$$3 \times \triangle \begin{matrix} 4 \\ 2 \end{matrix} \quad 3 \cdot \frac{1}{2} \cdot 2 \cdot 4 = 12$$

$$\boxed{13.7 \text{ cm}^2}$$

6)



$$SA = \boxed{16 \text{ ft}^2}$$

$$\square \begin{matrix} 2 \\ 2 \end{matrix} \quad 2^2 = 2^2 = 4$$

$$4 \times \triangle \begin{matrix} 3 \\ 2 \end{matrix} \quad 4 \cdot \frac{1}{2} \cdot 2 \cdot 3 = 12$$

$$\boxed{16 \text{ ft}^2}$$