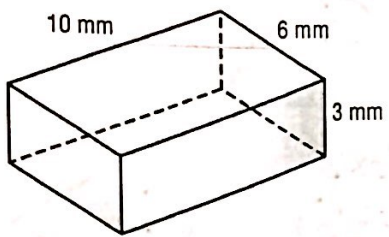


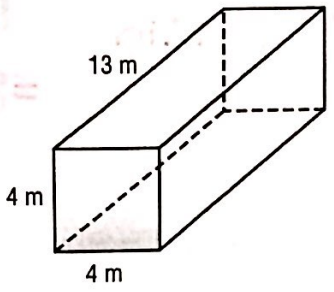
Find the volume of the shapes:

1.



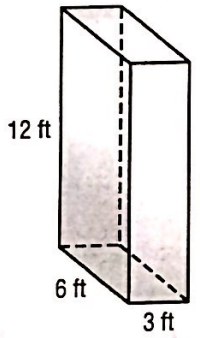
$$10 \times 6 \times 3$$
$$\downarrow$$
$$60 \times 3$$
$$\downarrow$$
$$180 \text{ mm}^3$$

2.

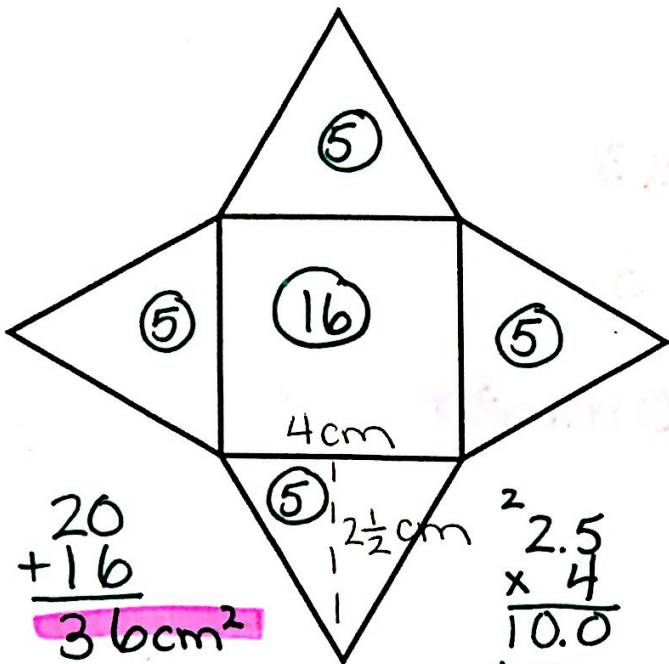


$$13 \times 4 \times 4$$
$$\downarrow$$
$$13 \times 16$$
$$= 208 \text{ m}^3$$
$$\begin{array}{r} 16 \\ \times 13 \\ \hline 48 \\ 160 \\ \hline 208 \end{array}$$

3.

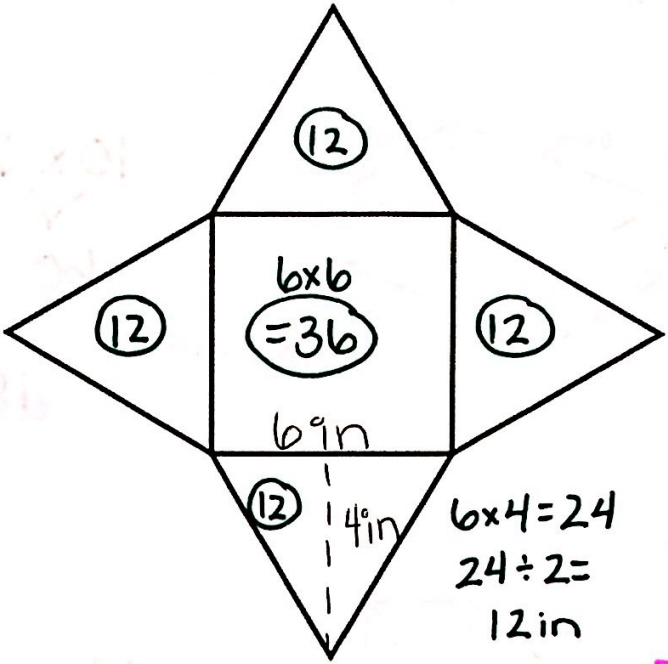


$$12 \times 6 \times 3$$
$$\downarrow$$
$$12 \times 18$$
$$= 216 \text{ ft}^3$$
$$\begin{array}{r} 12 \\ \times 18 \\ \hline 96 \\ 120 \\ \hline 216 \end{array}$$



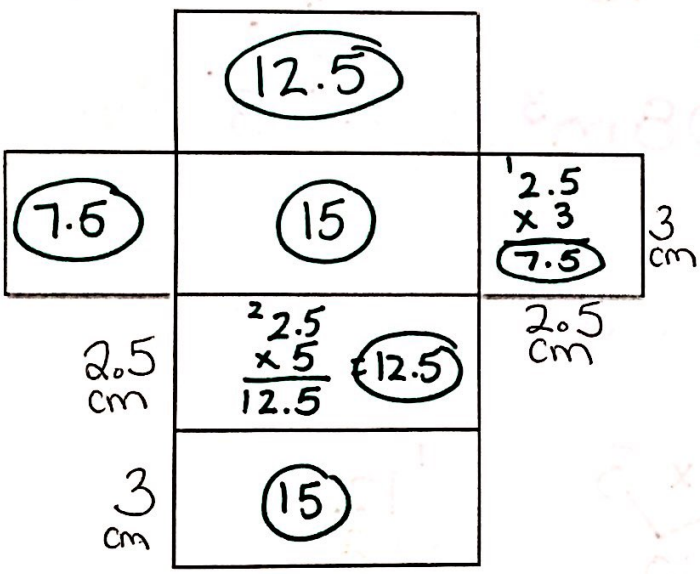
$$\begin{array}{r} 20 \\ + 16 \\ \hline 36 \text{ cm}^2 \end{array}$$

$$\begin{array}{r} 2.5 \\ \times 4 \\ \hline 10.0 \\ \div 2 \\ \hline 5 \end{array}$$



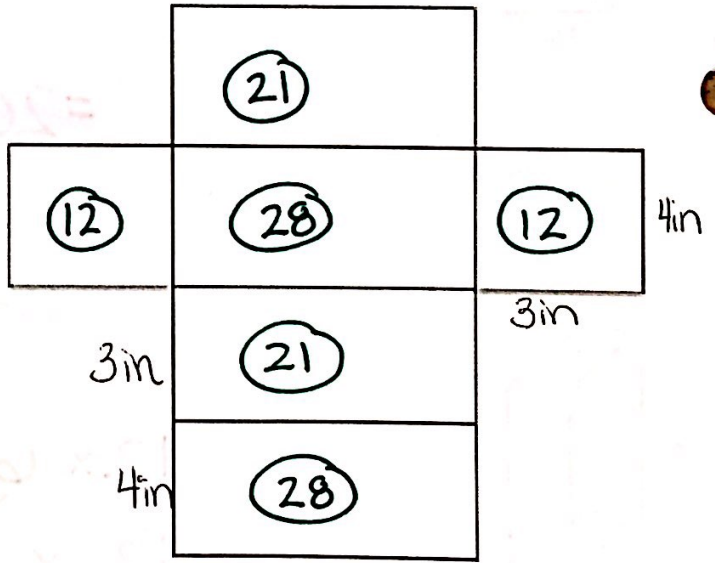
$$\begin{array}{l} 6 \times 6 = 36 \\ 6 \times 4 = 24 \\ 24 \div 2 = 12 \text{ in} \end{array}$$

$$\begin{array}{r} 36 \\ + 48 \\ \hline 84 \\ = 84 \text{ in}^2 \end{array}$$



2.5 cm
3 cm

$$\begin{array}{r} 7.5 \quad 15 \quad 12.5 \\ + 7.5 \quad + 15 \quad 12.5 \\ \hline 15.0 + 30 + 25.0 \\ = 70 \text{ cm}^2 \end{array}$$

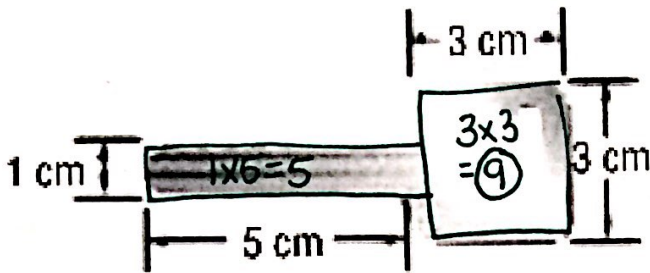


3 in
4 in

$$\begin{array}{r} 21 \quad 12 \quad 28 \\ + 21 \quad + 12 \quad + 28 \\ \hline 42 + 24 + 56 \\ 42 \\ + 24 \\ \hline 56 \\ \hline 122 \text{ in}^2 \end{array}$$

Find the surface Area

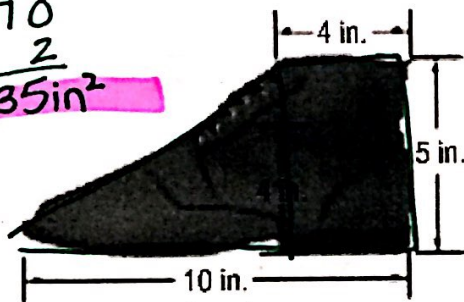
Find the composite area of the shape:



$$\begin{array}{r} 9 \\ + 5 \\ \hline 14 \text{ cm}^2 \end{array}$$

1.

$$\begin{array}{r} 14 \\ \times 5 \\ \hline 70 \\ \div 2 \\ \hline 35 \text{ in}^2 \end{array}$$

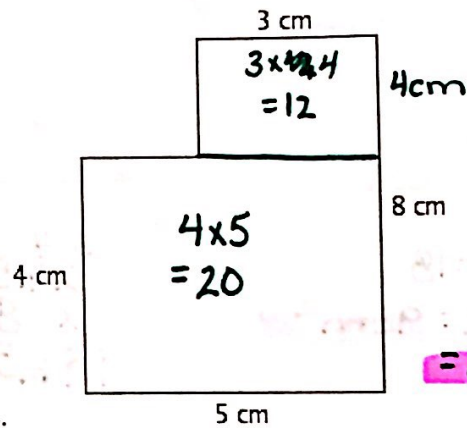


$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 10 \times 4 = 40 \\ \div 2 \\ \hline 20 \end{array}$$

2.

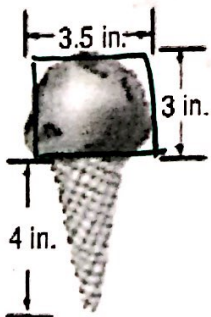
$$\begin{array}{r} 20 \\ + 20 \\ \hline 40 \text{ in}^2 \end{array}$$



$$\begin{array}{r} 20 \\ + 12 \\ \hline 32 \end{array}$$

$$= 32 \text{ cm}^2$$

4.

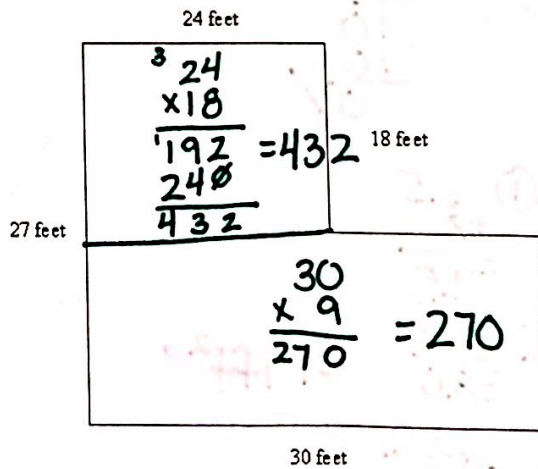


$$\begin{array}{r} 3.5 \\ \times 3 \\ \hline 10.5 \\ 3.5 \\ \times 4 \\ \hline 14.0 \\ \div 2 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 10.5 \\ + 7 \\ \hline 17.5 \end{array}$$

$$= 17.5 \text{ in}^2$$

3.



$$\begin{array}{r} 24 \\ \times 18 \\ \hline 192 \\ 240 \\ \hline 432 \end{array} = 432$$

$$\begin{array}{r} 30 \\ \times 9 \\ \hline 270 \end{array} = 270$$

$$\begin{array}{r} 432 \\ - 18 \\ \hline 414 \\ \div 9 \end{array}$$

$$\begin{array}{r} 432 \\ + 270 \\ \hline 702 \text{ ft}^2 \end{array}$$

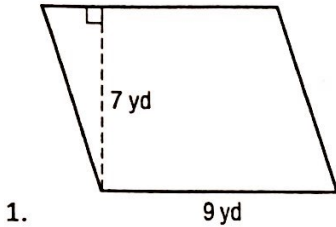
5.

Unit 5 Practice- Select the section you need the most work/help on.

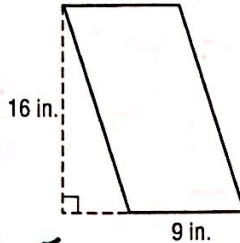
Steps to finding the area:

① $b \times h$

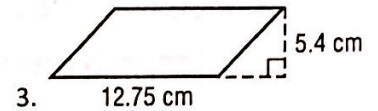
Section 1: Area of Parallelograms



1. $9 \times 7 = 63 \text{ yd}^2$

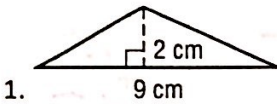


2.
$$\begin{array}{r} 5 \\ 16 \\ \times 9 \\ \hline 144 \end{array} = 144 \text{ in}^2$$

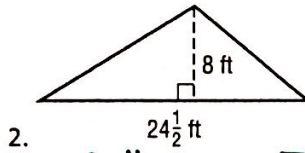


3.
$$\begin{array}{r} 12.75 \\ \times 5.4 \\ \hline 5100 \\ 63750 \\ \hline 68850 \end{array} = 68.850 \text{ cm}^2$$

Section 2: Area of Triangles



1. $9 \times 2 = 18$
 $18 \div 2 = 9 \text{ cm}^2$



2.
$$\begin{array}{r} 34 \\ 24.5 \\ \times 8 \\ \hline 196.0 \end{array}$$

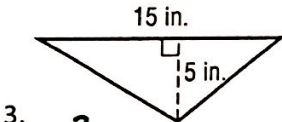
$$\begin{array}{r} 98 \\ 2 \overline{) 196} \\ \underline{-18} \downarrow \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

 $= 98 \text{ ft}^2$

Steps to finding the area:

① $b \times h$

② $\div 2$



3.
$$\begin{array}{r} 15 \\ \times 5 \\ \hline 75 \end{array}$$

$$\begin{array}{r} 37.5 \\ 2 \overline{) 75.0} \\ \underline{-6} \downarrow \\ 15 \\ \underline{-14} \downarrow \\ 10 \\ \underline{-10} \\ 0 \end{array}$$

 $= 37.5 \text{ in}^2$

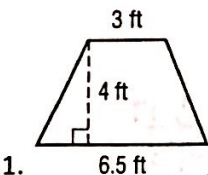
Section 3: Area of Trapezoids

Steps to finding the area:

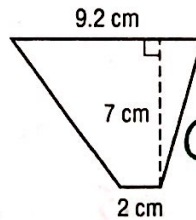
① $b_1 + b_2$

② $\times h$

③ $\div 2$



1. ① $6.5 + 3 = 9.5$
② $9.5 \times 4 = 38.0$
③ $38.0 \div 2 = 19 \text{ ft}^2$



2. ① $9.2 + 2 = 11.2$
② $11.2 \times 7 = 78.4$
③ $78.4 \div 2 = 39.2 \text{ cm}^2$