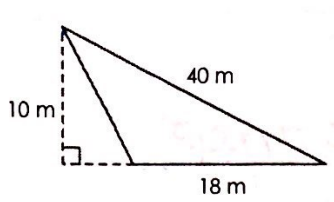
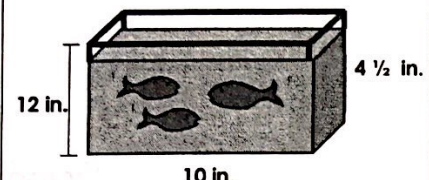
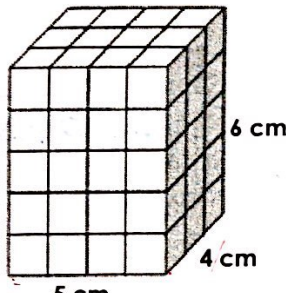
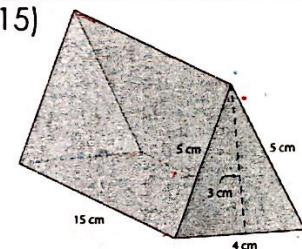
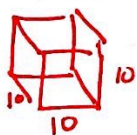


<p>12)</p> 	$A = \frac{1}{2}bh$ $A = \frac{1}{2}(18)(10)$ $A = 90$ <p style="text-align: right;">Area: <u>90m²</u></p>
<p>13) A fish tank is shown below. How many cubic inches of water can fit inside the tank?</p> 	$V = l \cdot w \cdot h$ $V = 10 \cdot 4\frac{1}{2} \cdot 12$ $V = \frac{10}{1} \cdot \frac{9}{2} \cdot \frac{12}{1}$ <p style="text-align: right;">Volume: <u>540in³</u></p>
<p>14)</p> 	$\left\{ \begin{array}{l} F: A = bh \quad A = 5 \cdot 6 = 30 \\ B: \quad \quad \quad 30 \end{array} \right. \left\{ \begin{array}{l} S: A = bh \quad A = 4 \cdot 6 = 24 \\ S: \quad \quad \quad 24 \end{array} \right. \left\{ \begin{array}{l} T: A = bh \quad A = 5 \cdot 4 = 20 \\ T: \quad \quad \quad 20 \end{array} \right.$ <p style="text-align: center;">Total Square cm needed to wrap the outside of the box:</p> <p style="text-align: right;">Surface Area: <u>148cm²</u></p>
<p>15)</p> 	$A_1 = \frac{1}{2}bh$ $A_1 = \frac{1}{2}(4)(3)$ $A_1 = 6$ $A_5 = 6$ $A_2 = b \cdot h$ $A_2 = 5 \cdot 15$ $A_2 = 75$ $A_4 = 75$ $A_3 = b \cdot h$ $A_3 = 4 \cdot 15$ $A_3 = 60$ <p style="text-align: right;">Surface Area: <u>222 cm²</u></p>

15) How much paper is needed to wrap a cube with a side length of 10 cm?



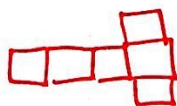
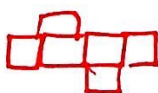
$$A = bh$$

$$A = 10 \cdot 10$$

$$A = 100$$

$$600cm^2$$

16) Draw 2 different nets that could be folded to make a cube.



17) A rectangular pool is 10 feet long, $14\frac{1}{2}$ feet wide, and 6 feet deep. How many cubic feet of water can it hold?

$$V = lwh$$

$$V = 10 \cdot 14\frac{1}{2} \cdot 6$$

$$V = \frac{10}{1} \cdot \frac{29}{2} \cdot \frac{6}{1}$$

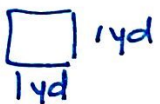
$$\begin{array}{r} 2 \\ 29 \\ \hline 87 \end{array}$$

$$870 \text{ ft}^3$$

18) Give a real world example of something that relates to volume.

Volume of a box used for shipping.

19) If carpet costs \$5 per square yard, how much would it cost to carpet a rectangular room that is 4.5 yards wide and 15 yards long?



$$\begin{aligned} A &= bh \\ A &= 4.5 \cdot 15 \\ A &= 67.5 \text{ yd}^2 \end{aligned}$$

$$\begin{array}{r} 2 \\ 15 \\ 4.5 \\ \hline 75 \\ 600 \\ \hline 67.5 \end{array}$$

$$\begin{array}{r} 3 \quad 2 \\ 67.5 \\ \times \quad 5 \\ \hline 337.5 \end{array}$$

$$\boxed{\$337.50}$$

20) How many 2 in cubes can fit inside an 8 in cube?



$$\begin{aligned} V_A &= 2 \cdot 2 \cdot 2 \\ V_A &= 8 \end{aligned}$$

$$\begin{aligned} V_B &= 8 \cdot 8 \cdot 8 \\ V_B &= 512 \end{aligned}$$

$$\begin{array}{r} 3 \\ 64 \\ 8 \\ \hline 512 \end{array}$$

$$\begin{array}{r} 64 \\ 8 \overline{) 512} \\ \underline{48} \\ 32 \end{array}$$

64 cubes fit inside the 8 in cube.