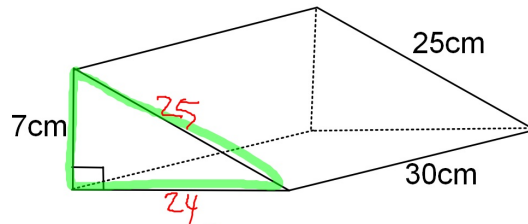


Bellwork, Tuesday, May 20, 2014

Find the Surface Area of each Prism. Round to the nearest hundredth when necessary.

1. Right Triangular Prism



$$SA = LA + 2B$$

$$1680 + 2(84)$$

$$1848 \text{ cm}^2$$

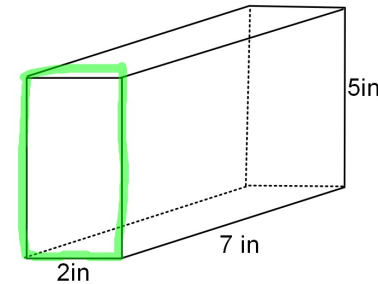
$$B = \frac{1}{2}bh = \frac{1}{2}(7)(24) = 84$$

$$LA = p \cdot h$$

$$(56)(30)$$

$$1680$$

2. Rectangular Prism.



$$SA = LA + 2B$$

$$98 + 2(10)$$

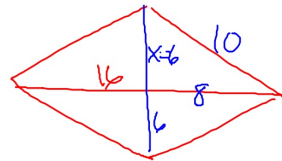
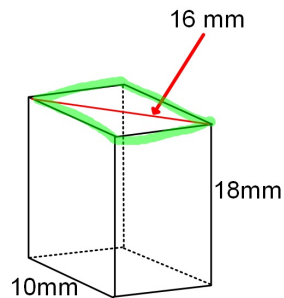
$$= 118 \text{ in}^2$$

$$B = bh = 2(5) = 10$$

$$LA = p \cdot h$$

$$(14)(7) = 98$$

3. Rhomboidal Prism.



$$SA = LA + 2B$$

$$720 + 2(96) = 912$$

$$\text{mm}^2$$

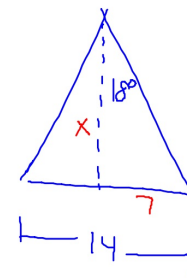
$$LA = p \cdot h$$

$$(40)(18) = 720$$

$$B = \frac{1}{2}(d)(d)$$

$$\frac{1}{2}(16)(12) = 96$$

4. Bases are Regular Decagons whose sides are 14 inches long. The height of the prism is 9 inches.



$$\tan 18^\circ = \frac{7}{x}$$

$$x = 21.54$$

$$SA = LA + 2B$$

$$1260 + 2(1507.8)$$

$$= 4275.6 \text{ in}^2$$

$$LA = p \cdot h$$

$$(140)(9) = 1260$$

$$B = \frac{1}{2}ap$$

$$= \frac{1}{2}(21.54)(140) = 1507.8$$