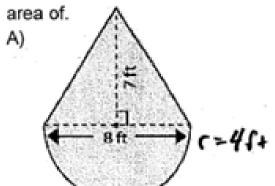
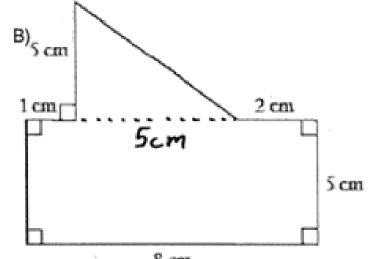
Get our your homework and have it ready to check.

Classwork - Volume of Prisms

.) Find the area of the following compound shapes by breaking them into shapes you know how to find the



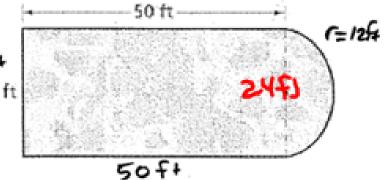
28+25.12



) The swimming pool at the right is a rectangle with a semicircle at one end. What are the area and perimeter

A of
$$\Box 7 = 50424 = 1200f4^{2}$$

A of somicine = 3.14(12=)=452.16
452.16-2=226.08f4²



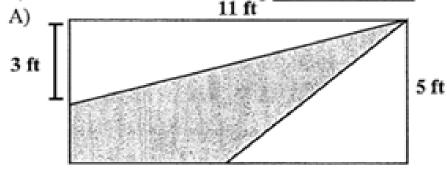
12004226.08

Wally is planning to install a new countertop in his kitchen, as shown in the figure. Find the area of the countertop.

A of trapezaid =
$$\frac{1}{2}(6+8) \cdot 2 = 14ft^2$$

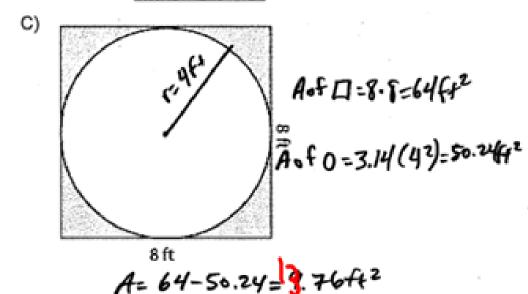
A of parallelegram = $2 \cdot 3 = 6ft^2$
 $6 \cdot 2 = 12ft^2$

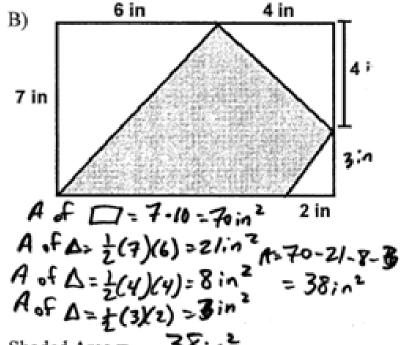
Find the area of the following shaded regions.



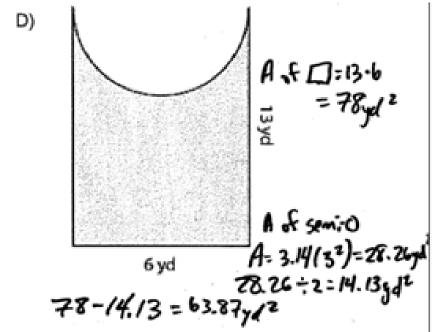
A of [] = 5.11 = 55G2 7 of LA = = (3X11) = 16.5ft2 1 55-16.5-15 1.FRA= = (6)(5)=15ft2 = 23.5ft2

Shaded Area = 23. 5f42

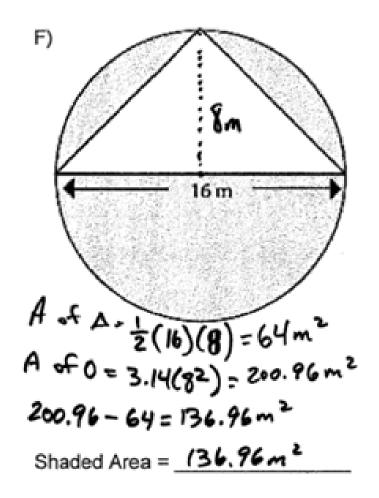


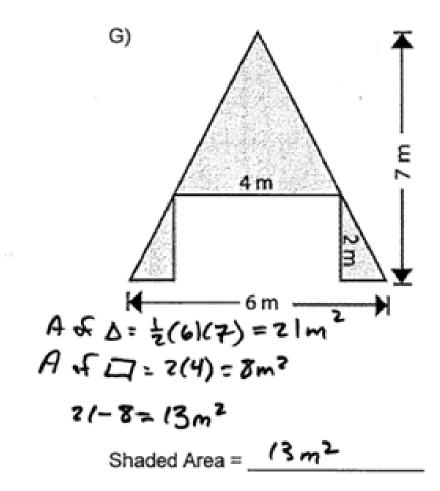


Shaded Area = 38; ~2



Shaded Area = 63.87 4d 2



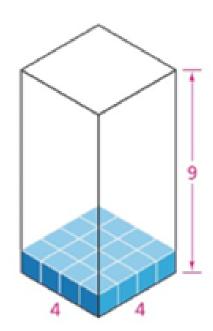


Finding the Volume of ALL Prisms

 $Volume = Area of the Base \cdot Height of the Prism$

Formula for Volume of a Prism V = BhB \rightarrow Area of the base $h \rightarrow$ height of the prism

The height of the prism must make a right angle with the base of the prism. The height of the prism is the distance between the two identical bases of the prism. The height can be vertical and horizontal.

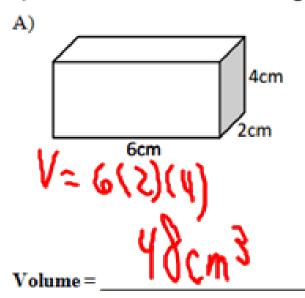


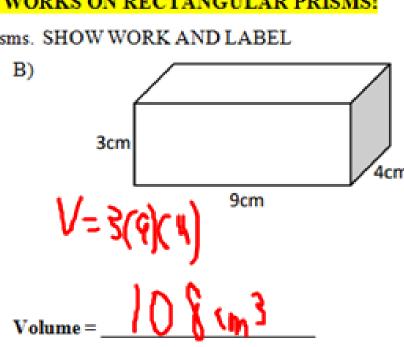
Volume of a Rectangular Prism

 $Volume = length \cdot width \cdot height OR V = lwh$

****THIS FORMULA ONLY WORKS ON RECTANGULAR PRISMS!

1) Find the volume of the following rectangular prisms. SHOW WORK AND LABEL

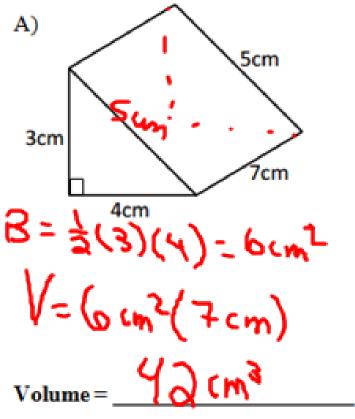




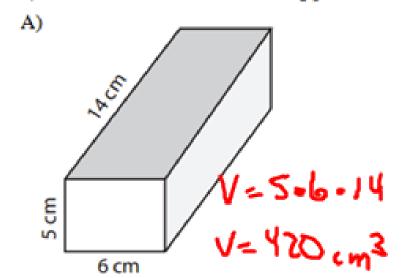
Volume of a Triangular Prism

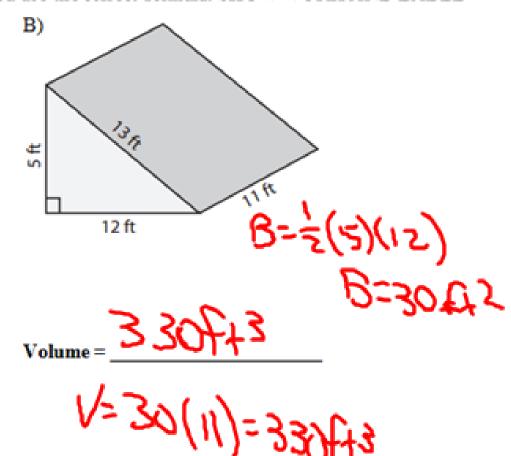
You have to use the formula \rightarrow Volume = Area of the Base · Height of the Prism OR V=Bh

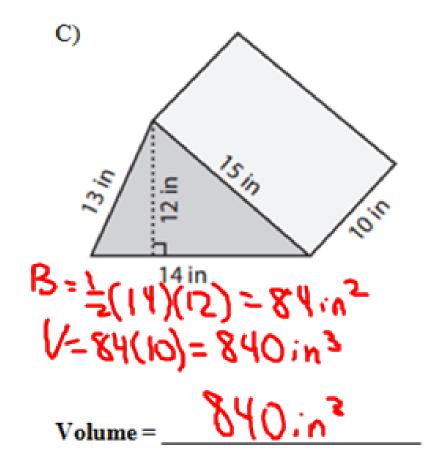
2) Find the volume of the following triangular prisms. SHOW WORK AND LABEL

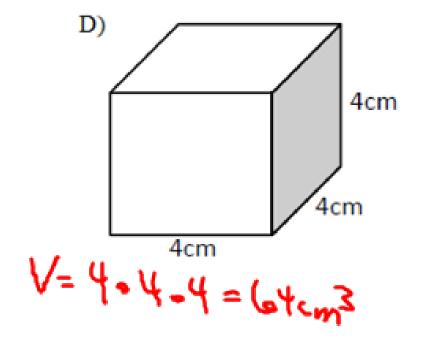


3) Find the volume of the following prisms. Make sure you use the correct formula. SHOW WORK AND LABEL





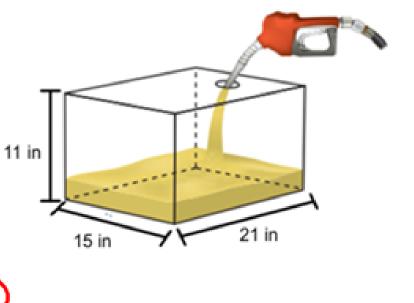




- 4) Use the gas tank to the right to answer the following questions. SHOW WORK AND LABEL
- A) How many cubic inches of gas fit into the tank?

B) Using the ratio $(1 \ gal = 231 \ in^3)$ find out how many gallons of gas this tank will hold? You'll have to set up a proportion.

$$\frac{1 \text{ gal}}{231 \text{ in}^3} = \frac{\chi}{3465} = \frac{3465}{231} = \frac{3465}$$



C) Gas cost \$2.19 per gallon in New Haven right now. How much does it cost to fill up this tank if it is completely

empty?

