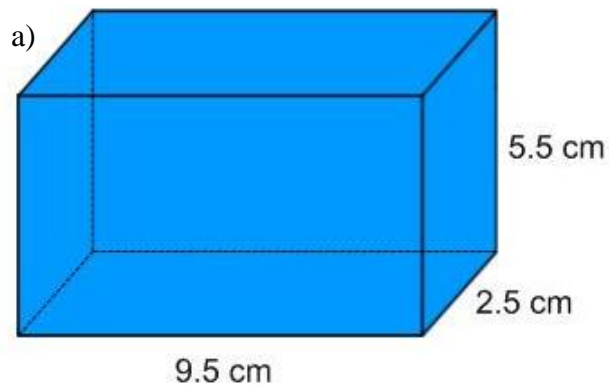


✚ *homework check:* Area and Perimeter in Composite Shapes Booklet

✚ *note:* Volume and Surface Area

Volume and surface area measurements are calculated for three dimensional shapes. Volume is a measure of how much the shape will contain and is measured in cubic units. Surface area is the amount of material required to construct the shape and is measured in square units.

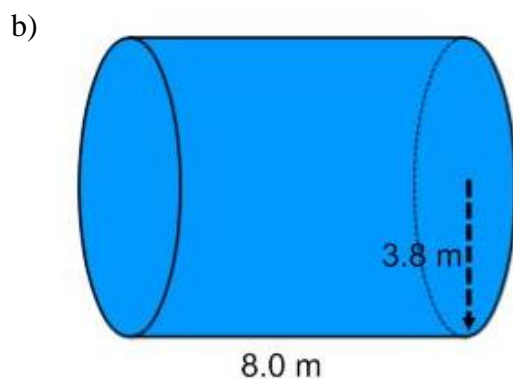
For example, calculate the volume and surface area of each of the following shapes:



Volume:  
 $V = lwh$   
 $= 9.5(2.5)(5.5)$   
 $= 130.625\text{cm}^3$

Surface Area  
 $SA = 2A_B + P_B h$   
 $= 2(9.5)(2.5) + (9.5 + 2.5 + 9.5 + 2.5)(5.5)$   
 $= 47.5 + 132$   
 $= 179.5\text{cm}^2$

\*\*remember that there are different ways to find the same surface area measure. Be careful that you are following the formulas correctly.



Volume:  
 $V = \pi r^2 h$   
 $= \pi(3.8)^2(8)$   
 $= 362.9\text{m}^3$

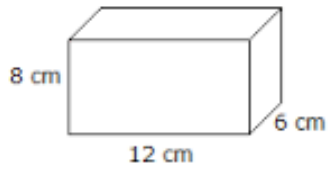
Surface Area:  
 $SA = 2\pi r^2 + 2\pi rh$   
 $= 2\pi(3.8)^2 + 2\pi(3.8)(8)$   
 $= 90.7 + 191.0$   
 $= 281.7\text{m}^2$

✚ *homework assignment:* Volume and Surface Area Booklet

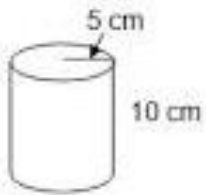
**Volume and Surface Area Booklet**

Determine the volume and surface area of each shape below.

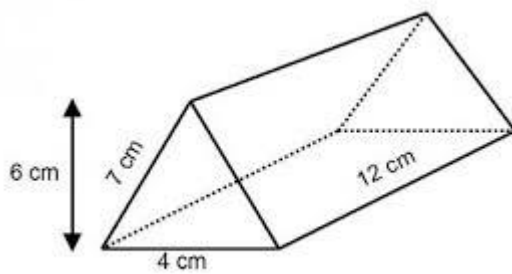
a)



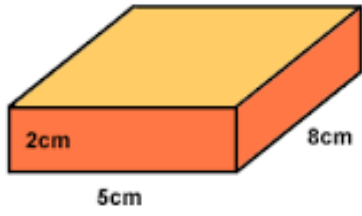
b)



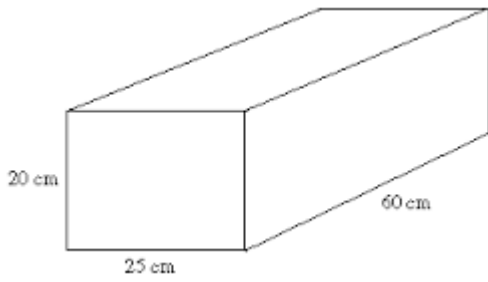
c)



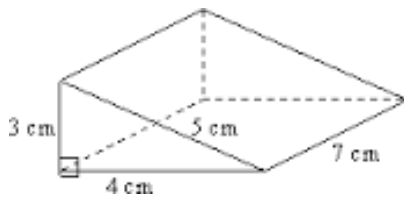
d)



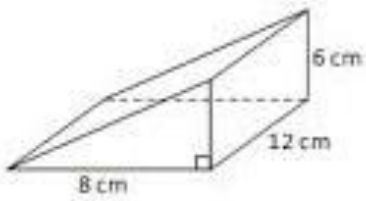
e)



f)



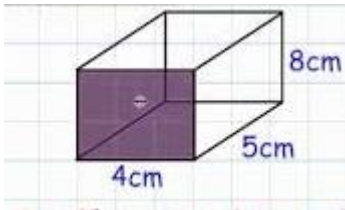
ME  
g)



Mrs. Roen

NAME: \_\_\_\_\_

h)



i)

