Geometry Note-Taking Guide **Name:**_____

Period:____

Section 11.4 – Volume of Prisms and Cylinders

The _____ of a solid is the number of cubic units contained in its interior.

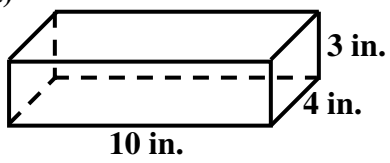
Simply stated, volume refers to the amount of _____ that an object occupies.

Volume of a Prism and Cylinder

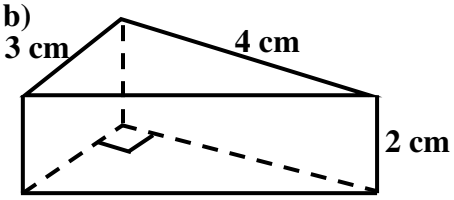
$V = A_B h$, where **A_B** is the area of the prism base and **h** is its height.

Ex 1: Find the volume of the prism.

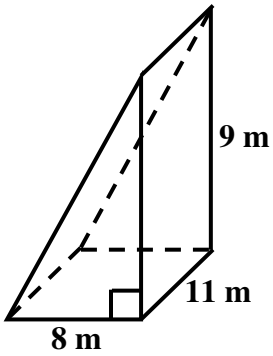
a)



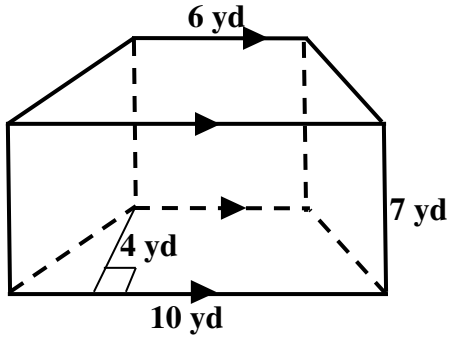
b)



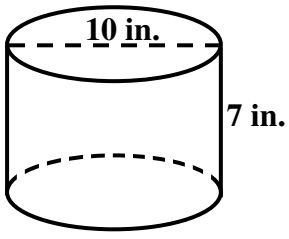
c)



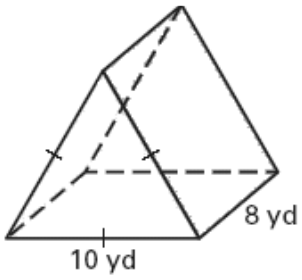
d) Note: This is a trapezoidal prism.



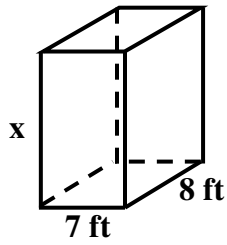
e)



f)

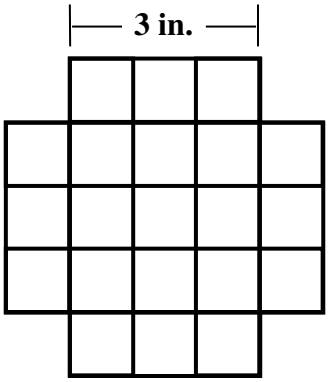


Ex 3:
Solve for the variable using the given information.

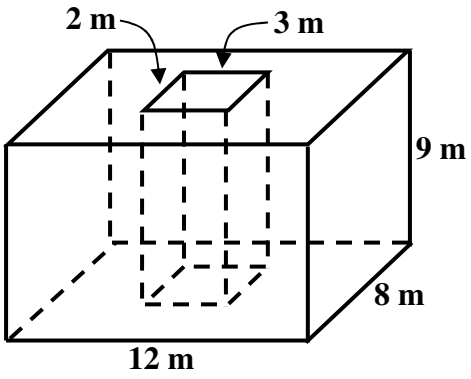


V = 560 ft^3

Ex 4:
The four sides of the figure will be folded up and taped to make a box. What will its volume be?



Ex 5:
a) Find the volume of the entire solid.



b) Find the volume of the entire solid.