## 7.2 – VOLUME OF A PRISM

Understanding Volume:

How many 1 cm cubes would you need to build a solid box with dimensions...



Volume (V) - total amount of space an object occupies

Height of Prism (H) - distance between identical faces of (or Cylinder) a prism. (or cylinder)



General Formula for Volume: Volume = Area of Base × Height of Prism V = A × H









*Example 3: Determine the volume of the water in a 12 cm cube if it is*  $\frac{3}{4}$  *full.* 



*Example 4: The inside of a freezer has a volume of 3.5 m<sup>3</sup>. What is the volume of the space left in the freezer after 120 boxes of these frozen treats are placed in it?* 



Assignment: p. 258 #4 – 8 (ac), 9, 10, 13, 15, 17, 19