**Math 8: Volume**

**Section 7.1 and 7.2**

Volume is ­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The formula for volume of a prism, in general, is:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

To use this formula, we need to know the shape that makes the base of our prisms.

* Rectangular prisms have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bases.
* Triangular prisms have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bases.
* Cylinders have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_based

Example 1: What is the volume of a prism with base area of 5 cm2 and height 10 cm?

Example 2: What is the height of a prism with volume 36 cm3, if the area of its base is 4 cm2?

For a rectangular prism the formula for volume is:

Example 3: What is the volume of a rectangular prism with length 2 cm, width 3 cm and height 4 cm?

Example 4: What are possible dimensions for a rectangular prism with volume 60 cm3?

* Homework:
  + Pg 250 #3-5
  + Pg 258 # 4-10