

Name:

Class:

## Word Problems \_Volume

**Directions:** Choose one problem in each row. Study the example given and use the recording table provided below for your calculation.

3D Shapes	A	B
<b>Cube</b>	A cubical water tank has a height of 4m. How much water can the tank hold?  $m^3$	A cubical box measuring 11cm. Find the volume of the prism.  $cm^3$
<b>Rectangular Prism</b>	A classroom is 26 feet wide, 32 feet long, and 9 feet high. What is the volume of the room in cubic feet?  $feet^3$	A rectangular prism has a length of 12 feet, a width of 4 feet and a height of 8 feet. What is the volume of the prism?  $feet^3$
<b>Triangular Prism</b>	The base of a prism is a right triangle with legs measuring 16 feet and 4 feet. If the height of the prism is 14 feet, find its volume.  $feet^3$	The base of a prism is a triangle with a base of 9 inches and a height of 5 inches. Determine the volume if its length is 18 inches.  $inc^3$
<b>Cylinder</b>	Shawn is making a candle using a cylindrical mold with a radius of 2 cm and a height of 30 cm. How many cubic centimeters of wax are needed for the candle?  $cm^3$	Alexa and Colton set up an inflatable pool in their backyard. The diameter of the pool is 6 meters and it 3 meters high. What is the volume of the pool?  $m^3$
<b>Pyramid</b>	A rectangular pyramid has a length of 22 inches, a width of 18 inches and a height of 12 inches. Determine the volume of the pyramid.  $inc^3$	The length of each side of the square base of the Great Pyramid of Giza is 230m. The height of the pyramid is 147m. Calculate its volume in cubic meters.  $m^3$