

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 9.6 inches. How much water can the tank hold? Round your answer to two decimal places.  $\text{inc}^3$	A cubical sandbox has a volume of 91,125 cubic inches. What is the side length of the sandbox?  $\text{inc}^3$
<b>Rectangular Prism</b>	A refrigerator is 3 ft wide, 2.5 ft deep, and 6 ft high. The walls and other parts of the refrigerator take up 20 $\text{ft}^3$ . How many cubic feet are left for food?  $\text{ft}^2$	A swimming pool is 20.6 m long, 8.5 m wide, and has an average water depth of 1.7 m. Find the volume of water needed to fill the pool.  $\text{m}^3$
<b>Triangular Prism</b>	The base of a prism is a triangle with a base of 13 inches and a height of 25 inches. Determine the volume in cubic inches if its length is 3 feet.  $\text{inc}^3$	The base of a prism is a right triangle with legs measuring 31 inches and 23 inches. If the height of the prism is 72 inches, determine its volume.  $\text{inc}^3$
<b>Cylinder</b>	Javier is buying a new candle and a cylindrical glass candle holder. The candle holder is 7.62 cm tall and has a diameter of 5.08 cm. What is the volume of the candle holder?  $\text{cm}^3$	Alexa and Colton set up an inflatable pool in their backyard. The diameter of the pool is 3 meters and it is 0.33 meters high. What is the volume of the pool?  $\text{m}^3$
<b>Pyramids</b>	A rectangular pyramid has a length of 32 inches, a width of 25 inches and a height of 64 inches. Determine the volume of the pyramid. Round your answer to two decimal places.  $\text{inc}^3$	The base of a pyramid is a triangle with a base of 23 feet and a height of 36 feet. What is the volume of the pyramid, if its height is 15 feet?  $\text{feet}^3$