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 |
|---|---|---|
| **Cube** | A cubical water tank has a height of 4m. How much water can the tank hold?<br><br>m$^3$ | A cubical box measuring 11cm. Find the volume of the prism.<br><br>cm$^3$ |
| **Rectangular Prism** | A classroom is 26 feet wide, 32 feet long, and 9 feet high. What is the volume of the room in cubic feet?<br><br>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?<br><br>feet$^3$ |
| **Triangular Prism** | 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.<br><br>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.<br><br>inc$^3$ |
| **Cylinder** | 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?<br><br>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?<br><br>m$^3$ |
| **Pyramid** | 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.<br><br>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.<br><br>m$^3$ |