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 9.6 inches. How much water can the tank hold? Round your answer to two decimal places. inc^3	A cubical sandbox has a volume of 91,125 cubic inches. What is the side length of the sandbox? inc^3
Rectangular Prism	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 ft^3. How many cubic feet are left for food? 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. m^3
Triangular Prism	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. 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. inc^3
Cylinder	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? 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? m^3
Pyramids	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. 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? $feet^3$