Name_____   Date_____
Math 7 Honors   **HW: Volume Practice**

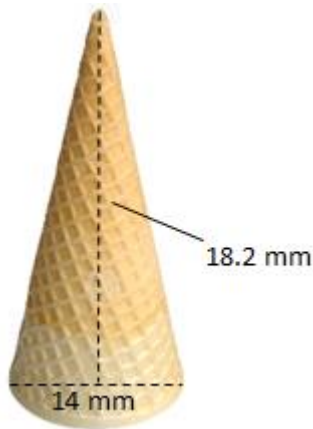| Rectangular Prism	Cylinder	Cone	Sphere
$V = lwh$	$V = \pi r^2 \cdot h$	$V = \frac{1}{3}\pi r^2 \cdot h$	$V = \frac{4}{3}\pi r^3$

Directions: Use the appropriate formula to solve each of the questions below. Show your work.

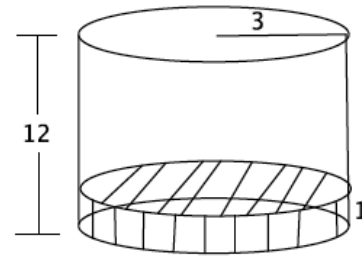|	
1. Bella purchased an ice cream cone with the dimensions shown below. Determine the volume of the cone *to the nearest tenth*. 18.2 mm 14 mm	2. The dimensions of a Fed Ex shipping box are shown below. Determine the volume of the box. 12.9 in 10 in 15.8 in
3. A case of Campbell's chicken soup contains 6 cans. Determine the total amount of soup in each case. *Leave your answer in terms of π.* 4 in 5 in	4. The radius of a baseball is approximately 3.8 cm. Find the volume of the baseball to the *nearest hundredth.*

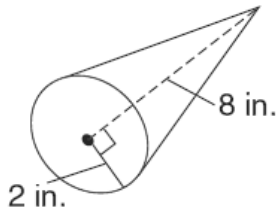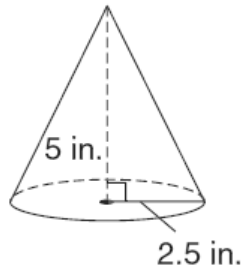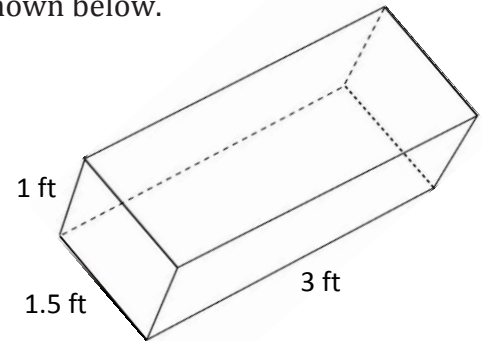|	
5. Anissa buys a spherical snow globe with a diameter of 10 cm. What is the total volume of the snow globe *to the nearest tenth?* *Show your work.*	6. Matthew is filling the cylindrical tank shown below. If the tank already contained 1-foot of water when he started, how much more water will he need to finish filling the tank? *Leave your answer in terms of π.*
7. Jacob and Marc are creating sand art projects using the cone shaped jars shown below. *Jacob's Project* *Marc's Project* 8 in. 2 in. 5 in. 2.5 in. If they fill their projects completely, which cone will hold more sand? *Show work to support your answer.*	8. Violet is helping her aunt fill a rectangular flower box with soil. The dimensions of the prism are shown below. 1 ft 1.5 ft 3 ft If each cubic foot of soil cost $2.80, what will be the cost to fill the flower box completely? *Show your work.*