Name_____Class:_____Date: _____

<u>PART A</u>:
Look around your house and find at least 4 items that are either a cylinder or a cone.

Fill in the table and find the volume.

Item 1 Diameter (cm) = _____ Radius (cm) = _____ Height (cm) = _____	Volume (Show work)
Item 2 Diameter (cm) = _____ Radius (cm) = _____ Height (cm) = _____	Volume (Show work)
Item 3 Diameter (cm) = _____ Radius (cm) = _____ Height (cm) = _____	Volume (Show work)
Item 4 Diameter (cm) = _____ Radius (cm) = _____ Height (cm) = _____	Volume (Show work)
Item 5 Diameter (cm) = _____ Radius (cm) = _____ Height (cm) = _____	Volume (Show work)

<u>PART B</u>:

Explain to someone at home how to find the volume of a cylinder and a cone.

Apply what you've learned to real life situations.

1. Marcie is pouring lemonade into cylindrical glasses that have diameter 5 cm and height 16 cm. If she fills the glasses three-quarters full, how much lemonade will be in each glass?

2. Calculate the volume of a cone with radius 3 cm and height 5.5 cm.

3. What is the volume, in cubic centimeters, of a cylinder that has a height of 15 cm and a diameter of 12 cm?

4. A birthday cake is being made using a cylindrical baking pan. The radius of the pan is 4 inches, and the height is 5 inches. Which formula represents the correct way to calculate the volume of the cake?

5. A storage container at the bakery is cylindrical with a height of 5 feet and a diameter of 2 feet. What is the volume of the container? Use 3.14 for pi.

6. The bakery has a limited time only cone filled cream and raspberry filling delicacy. It has a circular base of radius 6cm and volume 84π cm_3. Height of cone is. . . .