

# Station 1 Information:

Cylinder:

Diameter:  $2 \frac{3}{4}$  inches

Height: 11 inches

Gumball:

Diameter: 1 inch

# of gumballs in container: 20

**\*Round to the nearest thousandth**

*Look on other side!*

## Station 2 Information:

Rectangular prism:

Length: 5 inches

Height: 2.5 inches

Width: 3.25 inches

bouncy ball:

diameter: 1 inch

# of bouncy balls: 30

**\*Round to the nearest hundredth**

## Station 3 Information:

Ice (marshmallow):

Diameter: 1 inch

Height: 1 inch

# of ice ~~balls~~: 45  
cylinders

Glass:

diameter: 3 inches

height: 5 inches

**\*round to the nearest thousandth**

all use of  $\pi = 3.14$

## **Station 4 Information:**

Ice Cream Scoop #1: Diameter 3 inches

Ice Cream Scoop #2: Diameter 4 inches

Ice Cream Scoop #3: Diameter 5 inches

Cone: Diameter: 6 inches

Height 6 inches

**\*Round to the nearest hundredth**

Solve the volume problems shown. Draw and label the picture, write the work and the answers for full credit.

1. If I have a cone with a height of 3cm and a radius of 1cm, what is the volume?
2. If I have a cylinder with a height of 12 in and a diameter of 20 in, what is the volume?
3. If I have a sphere with a diameter of 16 ft, what is the volume? *Round at the hundredths.*
4. If I have a cube, with a side length of 6 m, what is the volume?
5. If I have a rectangular prism with a length of 5 in, a width of 3 in, and a height of 6 in, what is the volume?

# Station 6

Solve the volume problems shown. Write out the formula and plug in what you know. Then solve for the missing dimension.  $\pi \approx 3.14$

1. If I have a cylinder with a volume of  $502.4 \text{ cm}^3$  and height of  $10\text{cm}$ , what is the radius of the base?
2. If I have a cube with a volume of  $512 \text{ in}^3$ , what is the length of each side?
3. If I have a cone with a volume of  $141.3 \text{ in}^3$  and a radius of  $3 \text{ in}$ , what is the height?