

Purpose: To help us understand how to find the mass and volume of objects; to help us learn how to calculate density

Station 1: Mass

Read the instructions at your station. Record your data below.

Object	Mass
Rock	
Glass Plate	
Beaker	
Streak Plate	
Penny	

Did you label your units correctly? Answer the questions below.

- Which object had the highest mass? _____
- Which object has the most matter? _____
- Predict the mass of 10 pennies. _____
- How did you make your prediction? _____

- Imagine you place an un-inflated balloon on a digital scale. Its mass comes back as 3g. You inflate the balloon and place it back on the scale. Will the scale show a measurement that is higher, lower, or the same than/as 3g? Explain.

- Challenge:** You have two balloons of equal mass. You fill one with helium and you leave the other un-inflated. Which one will have a greater mass? Explain. _____

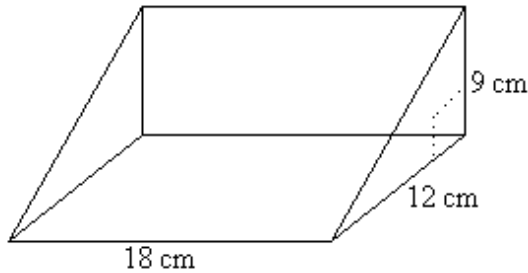
Station 2: Volume of Prisms

Complete the questions below before beginning the station work.

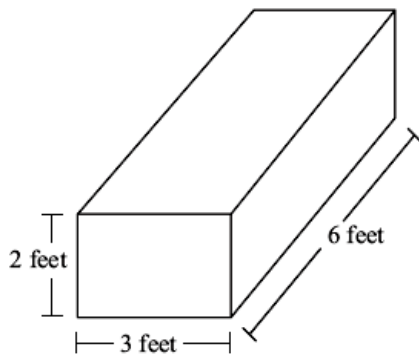
1. What is the equation used to find the volume of a cube? _____
2. What is the equation used to find the volume of a rectangular prism?

3. What is the equation used to find the volume of a triangular prism?

4. Calculate the volume of the following prisms.



Volume: _____



Volume: _____

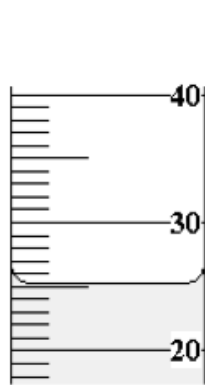
Follow the instructions at the station.

Object	Volume
Wood cube	
Plastic Container	
Kleenex Box	
Textbook	

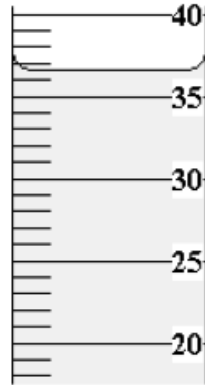
Station 3: Volume with a graduated cylinder.

Complete the following questions before moving on.

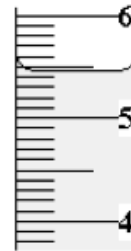
1. What is the volume of each of these liquids?



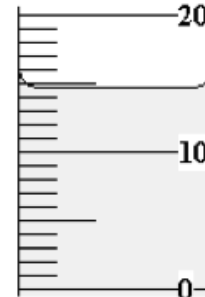
a) _____



b) _____

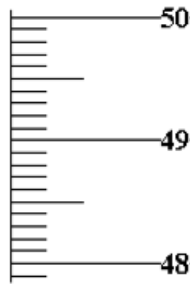


c) _____

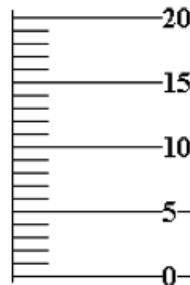


d) _____

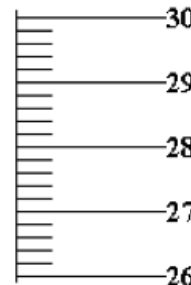
2. Fill in the graduated cylinder to the correct volume.



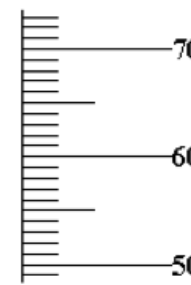
a) 49.21 mL



b) 18.2 mL



c) 27.65 mL



d) 63.8 mL

Follow the procedure at your station. Record your data below.

1. What is the volume of the red liquid? _____

2. What is the volume of the blue liquid? _____

3. For steps 4-7 in your procedure:

Initial volume of water in the graduated cylinder _____

Final volume of water in the graduated cylinder _____

Volume of the marble _____

Station 4: Volume and the spillover can

Follow the instructions at your station.

1. What is the letter of the object you are measuring? _____
2. What is the volume of the object? _____

Record the class information into this table.

Object	Volume
A	
B	
C	
D	