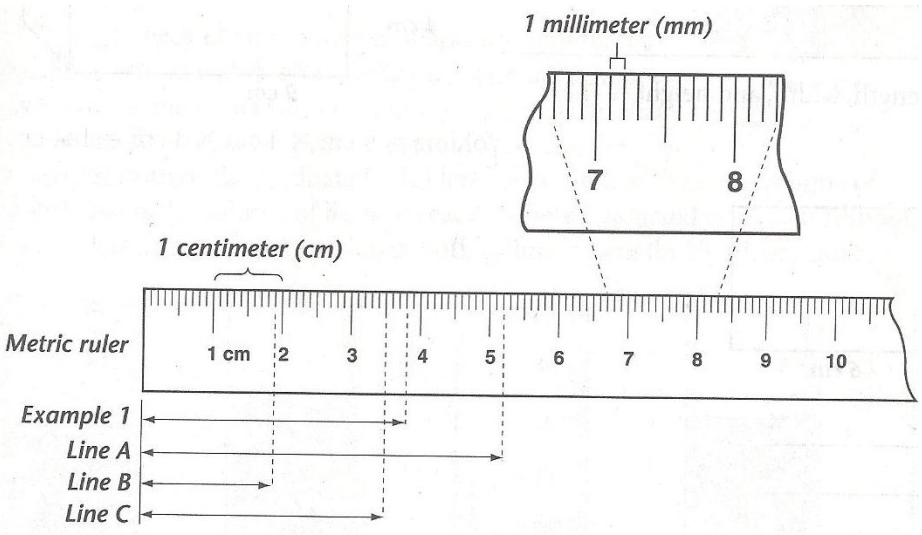
PRACTICE: Measuring

Directions: Answer the following questions about LENGTH

1. What is the definition of length? _____
2. What is the standard metric unit for length? _____
3. Name 2 tools used to measure length. _____
4. How many millimeters long is Line A? _____
5. How many centimeters long is Line A? _____
6. How many millimeters long is Line B? _____
7. How many centimeters long is Line B? _____
8. How many millimeters long is Line C? _____
9. How many centimeters long is Line C? _____
10. How much longer is Line A that Line B? _____

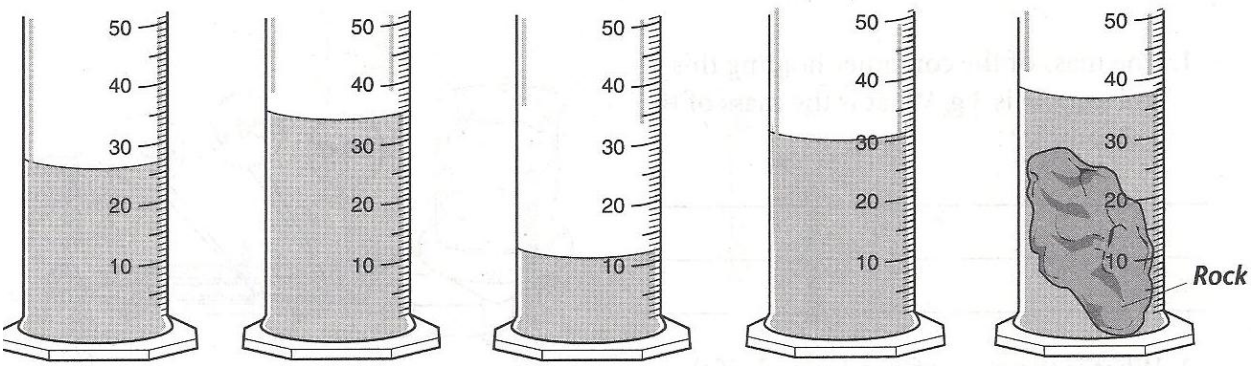


Directions: Answer the following questions about VOLUME

1. What is the definition of volume? _____
2. What is the standard metric unit for volume? _____

3. Name 2 tools used to measure volume. _____

4. When measuring liquid volume, always measure at the bottom of the _____
5. What is the volume of liquid shown in the first four graduated cylinders below? What is the total volume in the fifth graduated cylinder?

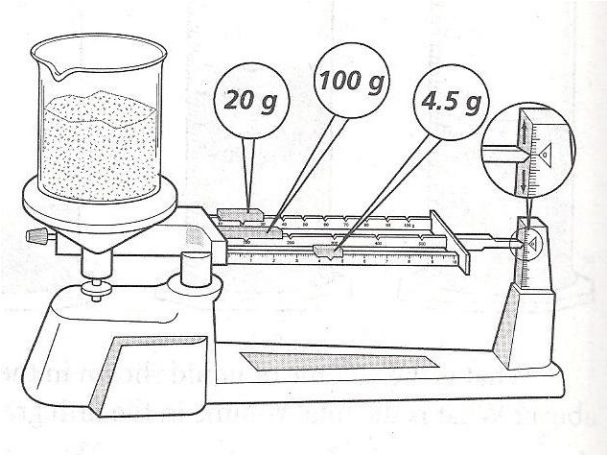


_____ _____ _____ _____ _____

6. If the diagrams for Graduated Cylinder 4 and 5 show the same graduated cylinder before and after the rock was added, what is the volume of the rock? _____
7. Why is it important to examine the unnumbered marks on a graduated cylinder before making a reading between the unnumbered lines?

Directions: Answer the following questions about MASS

1. What is the definition of mass? _____
2. What is the standard metric unit for mass? _____
3. Name the tool used to measure mass. _____
4. The mass of the container holding this soil sample is 3 g. What is the mass of the soil sample? _____
5. What is the mass of the soil sample if the combines mass of the soil sample and the container is 97 g and the mass of the container is 15 g? _____
6. If you were measuring the mass of a 256 g object on a triple-beam balance, what would the middle beam read? _____



Directions: Answer the following questions about TEMPERATURE

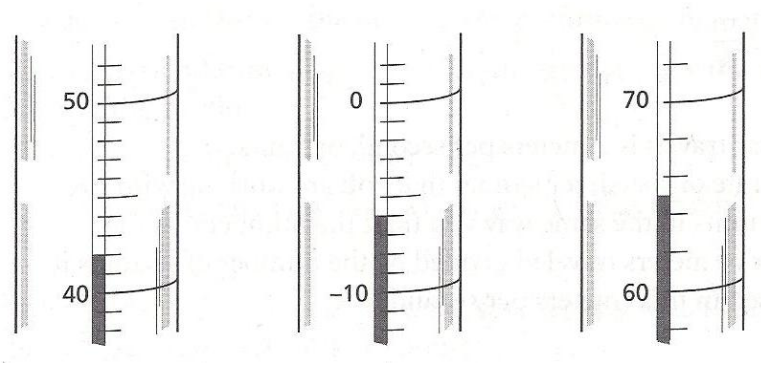
1. What is the definition of temperature?

_____

2. What is the standard metric unit for temperature? _____

3. Name the tools used to measure temperature. _____

4. What is the temperature in each of the diagrams below?



_____ _____ _____

5. The temperature of the beaker of water was 22°C at the beginning of an experiment. After 5 minutes, the temperature was 61°C. What was the increase in temperature? _____
6. The students in your science class recorded the outdoor temperature every hour. At 9:00AM it was 16°C. By 2:00PM the temperature had fallen to 9°C. What was the temperature decrease? _____
7. Why is it important to include units with your temperature measurements?

Practice: Metric Conversions

1) 35 cm = _____m
2) 0.65 L = _____mL
3) 9.23 cg =_____dg
4) 8.352 N = _____cN
5) 3 cm = _____dm
6) 6 dL = _____L
7) 0.085 cg = _____mg
8) 0.2 dN = _____mN
9) 3 m = _____dm
10) 13.9 L = _____mL
11) 2.54 dg = _____mg
12) 13.9 cN = _____mN
13) 2.64 cm = _____m
14) 91.3 L = _____dkL
15) 4.3 kg = _____g
16) 5 km = ---_____m