Unit 1 Scientific Process Name: _____

SA - Measuring Remember to use Units !

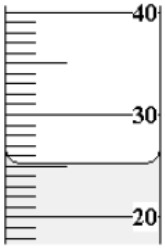
Level 2

1. _____ What should be done if a chemical gets in the eye?
   a) Notify the Instructor; then use the eye-wash fountain
   b) Use the eye-wash fountain; then return to the experiment
   c) Use the eye-wash fountain; and have your lab partner notify the instructor
   d) Nothing, unless the chemical causes discomfort

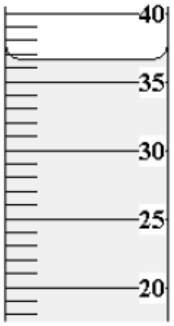
2. _____Eating and drinking is not permitted in the lab because:
   a) There would not be enough time to finish the experiment
   b) The storeroom serves terrible appetizers
   c) You could be poisoned by chemical in the experiment
   d) The lab would become quite messy with this type of activity

3. *Determine the amount of liquid in each of the graduated cylinders (mL) below.*

A) _____



B) _____



4. *Use the ruler to determine the length of the arrow.*

_____

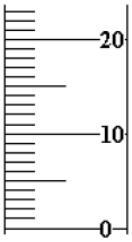
What is the resolution of the ruler? _____

Level 3

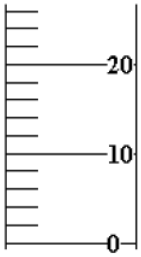
5. List one safety procedure that must be followed during a lab when the Bunsen burner is used.

6. Determine the resolution for each graduated cylinder given.

A) _____



B) _____



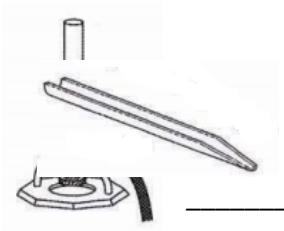
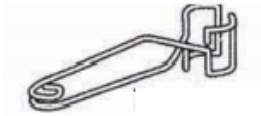
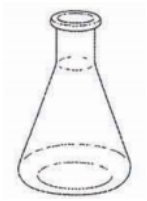
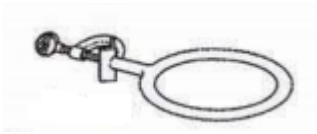
C) Of the 2 graduated cylinder (A or B) in question 6, which has a greater resolution. _____ Explain.

7. Explain how you would determine the volume of the black lab table top. Be sure to include tool what tool and unit you would use.

FA - Metric Conversion / Equipment

1. *Place the LETTER of the name with the appropriate picture of the equpment.*

A. beaker	B. graduated cylinder	C. triangle
D. Iron Ring	E. Ring Stand	F. Spatula
G. Bunsen burner	H. Test tube holder	I. Erlenmyer flask
J. Scoopula	K. Test tube rack	L. Pipet

_____ _____ _____ _____ _____

2. What is the base unit for: mass: _____ length: _____ volume: _____
(don't abbreviate)

3. *Convert the following:* _____ _____ _____ [ ] _____ _____ _____

a) 82.7 mg = _____ kg

b) 76 m = _____ cm

c) .250 m = _____ Km

d) 25 L = _____mL

e) 26 000 cm = _____ m

f) 1.4 Kg = _____ g

4. *Give your best metric estimate! Don't forget the units.*

a) Ceiling height _____ b) mass of baseball _____