

Homework – Scientific Method; Metrics; Metrics Lab; Indirect Method

Due: Mon., Aug 22 (Pre-AP)

Assigned: Thurs., Aug 18

- 1) Why is it important that the procedures of an experiment are documented accurately?
- 2) Convert 7.5 milliliters to microliters (do a conversion, please).
- 3) Convert 6,200,000 meters to the most appropriate metric unit (find the best prefix).
- 4) A graduated cylinder reads 35 mL of water. After an object is immersed into the water, the graduated cylinder reads 46 mL. a) This is known as the _____ of finding volume. b) What is the volume of the object?
- 5) A pile of bricks is too heavy to weigh. Instead you count 1034 bricks and weigh 1 brick as 1.4 kilograms. How heavy is the pile of bricks?
- 6) How tall are you in meters?
- 7) How tall are you in centimeters?
- 8) How many meters is your arm span (hand to hand)?
- 9) How wide is your hand in centimeters?
- 10) Roughly, how big is a liter (compared to English units)?
- 11) How heavy is one of our textbooks?
- 12) Without a ruler, draw me a line that is 10 cm long (make the ends obvious, like with an X).
- 13) Convert 25 m/sec to miles/hour.
- 14) Give the answers with the correct number of significant figures:
a) $13.08 \times 2.3 =$ _____ b) $13.08 - 2.3 =$ _____
- 15) On the back, draw the biomass pyramid. On it put where these organisms would go: fox; flower; bird; caterpillar.