

makeup data

UNIT CONVERSION ACTIVITY

Watch sig figs!

Name \_\_\_\_\_

Per \_\_\_\_\_

1) Find the length of the pencil in cm, convert to miles.

18.95 cm

\_\_\_\_\_ mi

2) Find the mass of the paper clip in grams, convert to tons. There are 2,000 lbs (pounds) in one ton, and 2.2 lbs in one kg.

1.21 g

\_\_\_\_\_ tons

3) Find the volume of the beaker in mL, convert to gallons. There are 0.26 gallons (gal) in a liter (L).

57.8 mL

\_\_\_\_\_ gal

4) Find the maximum length of time you can hold your breath in seconds, then convert to years.

47 sec

\_\_\_\_\_ years

5) Find the temperature of your armpit (outside shirt please) in Celsius, then convert to Kelvin.

30.5 °C + 273.15 = \_\_\_\_\_ K

6) Find the **area** of the paper towel in square meters.

645 cm<sup>2</sup>

\_\_\_\_\_ m<sup>2</sup>

7) Using any of the instruments in the lab, make your own direct measurement (getting as many sig figs as possible), then convert it to another unit, using at least two conversion factors.

2.45 g

\_\_\_\_\_