Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Assignment:\_\_\_\_

Metric-US Conversions

*Listed below are some conversion factors for going between SI units and the Standard units used in the United States.*

1 inch = 2.54 cm 1 meter = 3.3 feet 1 kilogram = 2.2 pounds

1 kilometer = .6 miles 1 gallon = 3.78 liters

Convert the following measurements as directed. **BE SURE TO SHOW YOUR WORK LIKE THE EXAMPLES IN CLASS!!**

1. 75 miles to \_\_\_\_\_\_kilometers

2. 185 lbs to \_\_\_\_\_\_kg

3. 10,000 ft to \_\_\_\_\_\_\_meters

4. 26 km to \_\_\_\_\_\_miles

5. 10 inches to \_\_\_\_\_\_cm

6. 5000 meters to\_\_\_\_\_\_ miles

7. 225 kg to \_\_\_\_\_\_lbs

8. 450 gallons to \_\_\_\_\_\_ liters

9. 450 grams to \_\_\_\_\_\_\_lbs

10. 100 kilometers to \_\_\_\_\_\_\_miles

**Use the chart and a calculator to convert each measurement. Be sure to show your work.**

**Round answers to the nearest hundredth if needed.**

1) 16 in = \_\_\_\_\_\_\_ cm 2) 345 lbs = \_\_\_\_\_\_\_ kg 3) 56 g = \_\_\_\_\_\_\_ oz

4) 450 km = \_\_\_\_\_\_\_ mi 5) 1200 ml = \_\_\_\_\_\_\_ fl oz 6) 40 m = \_\_\_\_\_\_\_ ft

7) 4 gal = \_\_\_\_\_\_\_ l 8) 12 fl oz = \_\_\_\_\_\_\_ ml 9) 50 kg = \_\_\_\_\_\_\_ lbs

10) Penny has a pencil that is 19 cm long. How long the pencil in inches?

11) Macho Mel can lift 200 kilograms with ease. How much is this in pounds?

12) The distance between Happyville and Giggleland is 60 miles. How far is this in kilometers?

13) A can of Cheap-O soda holds 355 ml of soda. How many milliliters would be in 2 cans of soda?

14) A cookie recipe calls for 1 pound of butter. How many grams of butter would be needed for 3 batches?

**To go from To Multiply by**

cm -> in 0.3937

in -> cm 2.54

m -> ft 3.2808

ft -> m 0.3048

km -> mi 0.6214

mi -> km 1.609

**To go from To Multiply by**

ml -> fl oz 0.0338

fl oz -> ml 29.575

l -> gal 0.2642

gal -> l 3.785

**To go from To Multiply by**

g -> oz 0.0353

oz -> g 28.35

kg -> lbs 2.2046

lbs -> kg 0.4536