**Metric Conversions Practice Worksheet**

**(Use proper sig figs when recording your answers. Show the steps of your dimensional analysis.)**

1. 5.0m + 6.25m + 3.1m = \_\_\_\_\_\_\_\_\_\_\_\_ m
2. 4.2cm x 3 cm x 2.398 cm = \_\_\_\_\_\_\_\_\_\_ cm
3. Circle the larger unit in each pair below:

1 m or 1 km

1 μg or 1 cg

1 L or 1 dL

1 mm or 1 km

1 dag or 1 ng

1 Mm or 1 hm

1. 71 mm = \_\_\_\_\_\_\_\_\_ m
2. 24 cm = \_\_\_\_\_\_\_\_\_\_ Gm
3. 15 km = \_\_\_\_\_\_\_\_\_\_ mi (1 mi= 63, 360 inches and 1 inch = 2.54 cm)
4. 42 ng = \_\_\_\_\_\_\_\_\_\_\_ g
5. 1.2 g + 3 dg + 2.6 g + 90cg = \_\_\_\_\_\_\_\_ g
6. The distance from Oak Street to Main Street is 0.75 kilometers. How many decimeters is this?
7. The outdoor running track at a high school is 4.0 x 102 m long. How many laps make exactly 1 kilometer?
8. 30. km/min = \_\_\_\_\_\_ mi/s (1 mi = 63, 360 inches and 1 inch= 2.54 cm)
9. 20 m/s = \_\_\_\_\_\_\_\_\_\_\_ miles/hour
10. 100 g/ml = \_\_\_\_\_\_\_\_\_\_\_\_ mg/L
11. 1 mm2 = \_\_\_\_\_\_\_\_\_\_\_\_\_ μm2
12. 1 m3 = \_\_\_\_\_\_\_\_\_\_\_\_\_ dm3
13. 5280 mm2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_m2
14. 9,055,033 μm2 = \_\_\_\_\_\_\_\_\_\_\_\_mm2