Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Significant Digits and Conversion Practice

*Solve the following problems using sig dig rules:*

1) 54.675 + 1.8 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) 5687.980 / 4.678 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) 6785.77 / 0.0003 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) 23.4567 – 3.56 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5) 3.98986 x 6.79 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6) 450 / 10 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) 2.1 x 57.6 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8) 78.67 / 3.2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9) 5.688 + 4.5 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Convert the following metric measurements*

10) 1450 mg = \_\_\_\_\_\_\_ g

11) 1.8 L = \_\_\_\_\_\_\_ mL

12) 165 cm = \_\_\_\_\_\_\_ mm

13) 1.4 km = \_\_\_\_\_\_\_ m

14) 19 g = \_\_\_\_\_\_\_ kg

15) 57.6 m = \_\_\_\_\_\_\_ km

16) 4.58 Terameter = \_\_\_\_\_\_\_\_ m

17) 8.78 microgram = \_\_\_\_\_\_\_\_\_ g

18) 5.67 kL = \_\_\_\_\_\_\_\_\_ cL

19) 6.789 hg = \_\_\_\_\_\_\_\_\_ g

*Use conversion factors and dimensional analysis to solve the following: (Remember sig dig rules)*

1 foot = 0.3048 meters 16 ounces = 1 pound 1 gram = 0.002205 pounds

1 mile = 5280 feet 1 quart = 0.9463 liters 24 hours = 1 day

Convert 26.4 mi to km

Convert 0.0489 lb to g

Convert 16 years to days

Convert 1067 km to miles

How many feet are in 3.2 miles?

How many miles is 7,598 feet?

How many feet are in 2.7 km?

How many inches are in 1 mile?

How many ft are in 0.001 km?

How many hours is 30 seconds?

How many feet are in 60 miles?

How many miles are in 30 km?

Imagine that water is leaking from a container, at a rate of 1.2 mL/hour.  If this rate does not change, how many liters of water will be lost in a week?

Change 2.6 km/day to miles/week

Change 60 yds/ hours to inches/ seconds

Convert 1.7 mL to qts

Convert 19.545 feet to km

Calculate the height of a 5 foot 10 inch man in m.

Calculate the number of g 1/4 lb of margarine

Change 550 grams to lb