GSE Algebra (R) NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit #1 Dimensional Analysis & Conversion Review Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period \_\_\_\_

**Show ALL work neatly. Label the units!**

1. How many seconds are in 3 days?
2. If you weigh 50 kilograms, what is that in pounds ? (1 kg – 2.2 lbs)

**For numbers 3 and 4, use the conversion $1 US = .81 Euros.**

1. How much would $4,000 Euros be worth in US Dollars?
2. How many Euros would be $5000?
3. A machine is filling cartons containing 1 pint of ice cream. How many gallons of ice cream will be needed to fill 1600 cartons?
4. The Willis Tower in Chicago, Illinois is 1450 feet tall. What is the height of the tower in meters? Use 1 m = 3.28 feet. Round to the tenths place.
5. New carpeting is being bought for a room 20 feet by 15 feet. The carpeting costs $45/ square yard. How much will the carpeting cost?
6. How many inches are in a mile?
7. How many ounces are in a kilogram?

**Conversions:**

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| 1. 30 mg = \_\_\_\_\_\_\_\_\_ g
 | 1. 25 mg = \_\_\_\_\_\_\_\_\_ kg
 | 1. 72.2 cm = \_\_\_\_\_\_\_\_\_ m
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| 1. 6 km = \_\_\_\_\_\_\_\_\_ m
 | 1. 17.5 L = \_\_\_\_\_\_\_\_\_ mL
 | 1. 0.0003 kL = \_\_\_\_\_\_\_\_\_ L
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