Double Unit Dimensional Analysis

SOLVE ALL NEATLY ON THE BINDER PAPER USING DIMENSIONAL ANALYSIS!

Some starting values are in italics as a hint.

1) How many kilometers per hour are equivalent to *1.45 x* 10^7 *millimeters per minute*?

2) How many inches per day are equivalent to *45.7 feet per second*?

3) If you work *40 hours per week*, and make $15 per hour, how many dollars per year do you earn?

4) Light travels at a speed of 186,000 miles per second. How many km per hour does it travel?

5) A car travels 42.00 miles on a gallon of gasoline. How many kilometers per liter is this?

6) There are *6.02 x* 10^{23} *atoms of carbon per 12 grams*. How many atoms of carbon per pound are there?

7) Bathtubs can drain 6 gallons per minute. How fast do they drain in ounces per second?

8) Create your own double unit dimensional analysis problem. Start with a value that has two units and end with a value that has two different units. It cannot be the same as one of these worksheet problems with different numbers – be unique and creative. We will do something with this problem in class so you are going to want to make a good one!

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