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 107 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 1023 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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