

Double Unit

Dimensional Analysis

SOLVE ALL NEATLY ON THE BINDER PAPER USING DIMENSIONAL ANALYSIS!

1. How many kilometers per hour are equivalent to 1.45×10^7 millimeters per minute?
2. How many inches per day are equivalent to 45.7 feet per second?
3. How many dollars per year is \$15/hr if you work 40 hours per week?
4. Light travels at a speed of 186,000. miles per second. How many km per hour does it travel?
5. Convert 17.5 miles per hour into yards per minute
6. A car travels 42.00 miles on a gallon of gasoline. How many kilometers per liter is this?
7. If apples cost me \$1.80 per lb, how much would apples cost in dollars per gram?
8. There are 6.02×10^{23} atoms of carbon per 12 grams. How many atoms of carbon per pound are there?
9. Bathtubs can drain 6 gallons per minute. How fast do they drain in ounces per second?
10. 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.

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