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 Chemistry Conversion Factors Practice Problems
 The quantity in the problem is multiplied by one or more "conversion factors," in which the numerator is equal to the denominator. Since the numerator and denominator of the conversion factor are equal, multiplying by the conversion factor is like multiplying by 1 and thus does not change the value of the original quantity.
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 In some problems, you may have to convert between moles or grams of some molecules and atoms of an element in that molecule. For example, you might be given moles or grams of C₂H₆ and be asked to find the number of H atoms in that sample. In problems like this, you can use the fact that there are 6 atoms of H in 1 ml of C₂H₆ as a conversion factor.
 Chemical Conversions and Problems
 Converting Between Units with Conversion Factors. A conversion factor is a factor used to convert one unit of measurement into another. A simple conversion factor can be used to convert meters into centimeters, or a more complex one can be used to convert miles per hour into meters per second.
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 For conversions within the metric system, you must memorize the conversion (for example: 1000 mL = 1 L, or 1000 g = 1 kg should be memorized) Remember that metric conversions are
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calculations. If you need a reminder of the steps, you can download and print this worksheet (Acrobat (PDF) 44kB Apr11 08) walking you through the steps ...

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You aced the chemistry units and conversions quiz!. Relaximages / Getty Images Great work! You did well on the units and conversions quiz. If you have trouble with any specific types of problems, try looking at a worked example problem to review the concepts and see how to proceed.

Remember to check your work to make sure an answer makes sense.

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In some problems, you may have to convert between moles or grams of some molecules and atoms of an element in that molecule. For example, you might be given moles or grams of C₂H₆ and be asked to find the number of H atoms in that sample. In problems like this, you can use the fact that there are 6 atoms of H in 1 mol of C₂H₆ as a conversion factor.

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This general chemistry video tutorial shows you how to perform unit conversion and dimensional analysis. It contains a chart filled with common and important...

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The quantity in the problem is multiplied by one or more "conversion factors," in which the numerator is equal to the denominator. Since the numerator and denominator of the conversion factor are equal, multiplying by the conversion factor is like multiplying by 1 and thus does not change the value of the original quantity.

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Converting Between Units with Conversion Factors. A conversion factor is a factor used to convert one unit of measurement into another. A simple conversion factor can be used to convert meters into centimeters, or a more complex one can be used to convert miles per hour into meters per second.

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Now let's practice a few unit conversion problems using conversion factors. Practice Problem #1 Convert 45.0 inches to centimeters, given that 1 inch equals 2.54 centimeters.

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