


Name: _____

The Basic Mole Conversion Worksheet

1. For Skittles® answer the following questions.

<p style="text-align: center;">1 Bag Skittles</p>  <p style="text-align: center;">350 Skittles 845 grams</p>	<p>a.) What is the mass of 73 skittle pieces?</p> <p>b.) How many bags of skittles are needed to package 9250 skittle pieces?</p> <p>c.) What is the mass of 40 bags of skittles?</p> <p>d.) A person has 164 grams of skittles. How many skittle pieces do they have?</p> <p>e.) A store has 490 bags of skittles. How many skittle pieces do they have?</p> <p>f.) How many bags of skittles are needed to contain 1.2×10^5 grams of skittles?</p>
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2. Mole Conversions.

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| a.) Convert 3.50 grams of iron to moles. | j.) Convert 3.5×10^{22} atoms of copper to grams. |
| b.) Convert 18.2 grams of CaCl_2 to moles. | k.) Convert 6.0×10^{23} units of $\text{Zn}(\text{C}_2\text{H}_3\text{O}_2)_2$ to grams. |
| c.) Convert 1.88 grams of magnesium nitrate to moles. | l.) Convert 4.0×10^{24} molecules of carbon disulfide to grams. |
| d.) Convert 0.332 moles of zinc to grams | m.) Convert 5.6 grams of gold to atoms. |
| e.) Convert 2.4×10^{-2} moles of $\text{Al}(\text{NO}_3)_3$ to grams. | n.) Convert 0.913 grams of SnF_2 to units. |
| f.) Convert 1.33 moles of chromium(III) chloride to grams | o.) Convert 26.4 grams of $\text{C}_5\text{H}_{10}\text{S}$ to molecules. |
| g.) Convert 0.20 moles of potassium to atoms | p.) Convert 7.22×10^{23} atoms of lead to moles. |
| h.) Convert 0.032 moles of manganese(III) nitrate to units. | q.) Convert 3.00×10^{25} units of CaSO_4 to moles. |
| i.) Convert 1.5×10^{-4} moles of glycerin to molecules. | r.) Convert 4.57×10^{21} molecules of toluene to moles |