Molar Conversions WS Solve USING DIMENSIONAL ANALYSIS LINE METHOD.

1) 25 g of NaCl to moles

$$\frac{25\text{ g}}{\text{g}} \times \frac{1\text{ mol}}{} = 0.43\text{ mol}$$

2) 125 g of H_2SO_4 to moles

$$\frac{}{} = 1.27\text{ mol}$$

3) 2.5 mol of NaCl to grams

$$\frac{2.5\text{ mol}}{1\text{ mol}} \times \frac{\text{g}}{} = \text{g}$$

4) 0.5 mole of H_2SO_4

$$\frac{}{} = 1.27\text{ mol}$$

5) 2 moles of NaCl to molecules

$$\frac{2\text{ mol}}{1\text{ mol}} \times \frac{\text{molecules}}{} =$$

6) 1.5 moles H_2SO_4 to molecules

$$\frac{}{} =$$

Complete the rest of these conversions on your notebook paper.

7) 3.4×10^{26} molecules of NaCl to moles

8) 7.5×10^{19} molecules of H_2SO_4 to moles

9) 87 g of NaCl to molecules

$$\frac{87\text{ g}}{\text{g}} \times \frac{1\text{ mol}}{} \times \frac{}{} = \text{molecules}$$

10) 45 g of H_2SO_4 to molecules

11) 1.8×10^{28} molecules of NaCl to grams

12) 4.5×10^{15} molecules of H_2SO_4 to grams

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