

Molarity Practice Worksheet

Find the molarity of the following solutions:

$$\frac{\text{mol solute}}{\text{L solution}}$$

- 1) 0.5 moles of sodium chloride is dissolved to make 0.05 liters of solution.

$$\frac{0.5 \text{ mol NaCl}}{0.05 \text{ L}} = 10 \text{ M} = 10 \frac{\text{mol}}{\text{L}}$$

- 2) 0.5 grams of sodium chloride is dissolved to make 0.05 liters of solution.

$$\frac{0.5 \text{ g NaCl}}{0.05 \text{ L}} \times \frac{1 \text{ mol NaCl}}{58.44 \text{ g NaCl}} = 0.17 \text{ M}$$

- 3) 0.5 grams of sodium chloride is dissolved to make 0.05 mL of solution.

$$\frac{0.5 \text{ g}}{58.44 \text{ g}} \times \frac{1 \text{ mol}}{1} = 0.0085 \text{ mol}$$

$$\frac{0.0085 \text{ mol}}{0.00005} = 170 \text{ M}$$

$$0.05 \text{ mL} \times \frac{1 \text{ L}}{10^3 \text{ mL}}$$

Molarity Practice Problems Answer Key

Heather Hattori, Richard H. Langley



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