

1. Calculate the Molarity of a solution when enough water is added to 35 gr of NaCl to make 444ml of solution.

$$\frac{35 \text{ g NaCl}}{58.5 \text{ g}} \left| \frac{1 \text{ mol NaCl}}{58.5 \text{ g}} \right. = .6 \text{ mol NaCl}$$

$$M = \frac{.6}{.444} = 1.3 \text{ M NaCl solution}$$

2. A 1.5M solution of sodium chloride was made with 200ml of water. How many moles of salt were used in making the solution?

$$1.5 \text{ M} = \frac{n}{.200 \text{ L}}$$

$$n = .3 \text{ mol NaCl}$$

3. How many grams of salt are there in 200ml of a 1.5M NaCl solution?

$$\frac{.3 \text{ mol NaCl}}{1 \text{ mol}} \left| \frac{58.5 \text{ g NaCl}}{1 \text{ mol}} \right. = 17.55 \text{ g NaCl}$$

4. 120ml of a 2M NaCl solution is added to 120ml of a 1.2M NaCl solution. What is the new Molarity?

$$2 \text{ M} = \frac{n}{.120 \text{ L}} \left| n_1 = .24 \text{ mol} \right.$$

$$1.2 \text{ M} = \frac{n}{.120 \text{ L}} \left| n_2 = .144 \text{ mol} \right.$$

$$n_{\text{total}} = .384 \text{ mol}$$

$$V_{\text{total}} = .240 \text{ L}$$

$$M = \frac{.384 \text{ mol}}{.240 \text{ L}} = 1.6 \text{ M NaCl}$$

5. 400ml of water is added to one liter of a 3M NaCl solution. What is the new Molarity?

$$M_1 V_1 = M_2 V_2$$

$$(3 \text{ M})(1 \text{ L}) = M_2(1.4 \text{ L})$$

$$M_2 = 2.1 \text{ M NaCl}$$

6. How many ml of a 3M NaCl solution are needed to make 222ml of a 1.7M solution?

$$M_1 V_1 = M_2 V_2$$

$$(3 \text{ M}) V_1 = (1.7 \text{ M})(222 \text{ mL})$$

$$V_1 = 125.8 \text{ mL}$$

# Calculating Molarity Packet Answers

**Michael E Green**



## Calculating Molarity Packet Answers:

**Chemistry and Society** Michael E Green, 2019      **The Negotiation of Knowledge and Roles in High School Science Classrooms** Victoria Brookhart Costa, 1994      Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11

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