

Dilutions – Practice Problems

Instructions: Use the equation for dilutions to complete the problems below.

- 1) A student obtains 0.30 liters of 2.0 M silver nitrate solution. She dilutes the solution until it has a volume of 2.6 liters. What is the **molarity** of the new solution?

$$M_1 V_1 = M_2 V_2$$
$$(2.0) (0.30) = M_2 (2.6)$$

$$(0.6) = M_2 (2.6)$$

$$M_2 = 0.23 \text{ M}$$

- 2) Before an experiment, a scientist obtains 2.45 L of 1.25 M sulfuric acid (H_2SO_4) and dilutes it until the molarity drops to 0.80 M. What is the **volume** of the new solution?

$$M_1 V_1 = M_2 V_2$$
$$(1.25) (2.45) = (0.8) V_2$$

$$(3.06) = (0.8) V_2$$

$$V_2 = 3.83 \text{ L}$$

- 3) A solution of hydrochloric acid is diluted, bringing the volume from 2.0 L to 8.5 L. If the solution has a final molarity of 1.4 M, what was the **molarity before** dilution?

$$M_1 V_1 = M_2 V_2$$
$$M_1 (2.0) = (1.4) (8.5)$$

$$(250.0) = (2.0) V_2$$

$$V_2 = 125.0 \text{ mL}$$

- 4) If a student adds 250 mL of water to a 300 mL solution of NaCl that has a concentration of 3.0 M, what will be the **molarity** of the final solution?

$$M_1 V_1 = M_2 V_2$$
$$(3.0) (300) = M_2 (550)$$

$$(900) = M_2 (550)$$

$$M_2 = 1.64 \text{ M}$$



- 5) A scientist adds 1.2 liters of water to a 5.0 liter solution, causing the molarity to become 0.4 M. What was the **molarity** of the **initial solution** before the dilution?

$$M_1 V_1 = M_2 V_2$$
$$M_1 (5.0) = (0.4) (7.2)$$

$$M_1 (5.0) = 2.88$$

$$M_1 = 0.576 \text{ M}$$

Dilutions Notes And Practice Worksheet Answers

Marcel A. Müller



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web aug 29 2023 some points to remember when balancing redox reactions the equation is separated into two half equations one for oxidation and one for reduction the equation is balanced by adjusting coefficients and adding H_2O and H^+ and e^- in this order balance the atoms in the equation apart from o and h

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively $\text{C}_6\text{H}_8\text{O}_6 + 2\text{HNO}_2 \rightarrow \text{C}_6\text{H}_6\text{O}_6 + 2\text{H}_2\text{O} + 2\text{NO}$ choose 1 answer $\text{C}_6\text{H}_8\text{O}_6$ and NO_2 a $\text{C}_6\text{H}_8\text{O}_6$ and NO_2 no 2 and $\text{C}_6\text{H}_8\text{O}_6$ b NO_2 and $\text{C}_6\text{H}_8\text{O}_6$ h and NO_2 c h and