

Name _____

Solution Stoichiometry Worksheet

Solve the following solutions Stoichiometry problems:

1. How many grams of silver chromate will precipitate when 150. mL of 0.500 M silver nitrate are added to 100. mL of 0.400 M potassium chromate?



$$\frac{0.150 \text{ L AgNO}_3}{1 \text{ L}} \times \frac{0.500 \text{ moles AgNO}_3}{1 \text{ L}} \times \frac{1 \text{ moles Ag}_2\text{CrO}_4}{2 \text{ moles AgNO}_3} \times \frac{331.74 \text{ g Ag}_2\text{CrO}_4}{1 \text{ moles Ag}_2\text{CrO}_4} = 12.4 \text{ g Ag}_2\text{CrO}_4$$

$$\frac{0.100 \text{ L K}_2\text{CrO}_4}{1 \text{ L}} \times \frac{0.400 \text{ moles K}_2\text{CrO}_4}{1 \text{ L}} \times \frac{1 \text{ moles Ag}_2\text{CrO}_4}{1 \text{ moles K}_2\text{CrO}_4} \times \frac{331.74 \text{ g Ag}_2\text{CrO}_4}{1 \text{ moles Ag}_2\text{CrO}_4} = 13.3 \text{ g Ag}_2\text{CrO}_4$$

2. How many mL of 0.280 M barium nitrate are required to precipitate as barium sulfate all the sulfate ions from 25.0 mL of 0.350 M aluminum sulfate? (93.8 mL barium nitrate)



$$\frac{0.0250 \text{ L Al}_2(\text{SO}_4)_3}{1 \text{ L}} \times \frac{0.350 \text{ moles Al}_2(\text{SO}_4)_3}{1 \text{ L}} \times \frac{3 \text{ moles Ba(NO}_3)_2}{1 \text{ moles Al}_2(\text{SO}_4)_3} \times \frac{1 \text{ L}}{0.280 \text{ moles Ba(NO}_3)_2} = 0.0938 \text{ L Ba(NO}_3)_2$$

3. 25.0 mL of 0.350 M NaOH are added to 45.0 mL of 0.125 M copper (II) sulfate. How many grams of copper (II) hydroxide will precipitate?



$$\frac{0.0250 \text{ L NaOH}}{1 \text{ L NaOH}} \times \frac{0.350 \text{ moles NaOH}}{1 \text{ L NaOH}} \times \frac{1 \text{ moles Cu(OH)}_2}{2 \text{ moles NaOH}} \times \frac{97.57 \text{ g Cu(OH)}_2}{1 \text{ mole Cu(OH)}_2} = 0.427 \text{ g Cu(OH)}_2$$

$$\frac{0.0450 \text{ L CuSO}_4}{1 \text{ L NaOH}} \times \frac{0.125 \text{ moles CuSO}_4}{1 \text{ L NaOH}} \times \frac{1 \text{ moles Cu(OH)}_2}{1 \text{ moles CuSO}_4} \times \frac{97.57 \text{ g Cu(OH)}_2}{1 \text{ mole Cu(OH)}_2} = 0.549 \text{ g Cu(OH)}_2$$

4. What volume of 0.415 M silver nitrate will be required to precipitate as silver bromide all the bromide ion in 35.0 mL of 0.128 M calcium bromide?



$$\frac{0.0350 \text{ L CaBr}_2}{1 \text{ L CaBr}_2} \times \frac{0.128 \text{ moles CaBr}_2}{1 \text{ L CaBr}_2} \times \frac{2 \text{ moles AgNO}_3}{1 \text{ moles CaBr}_2} \times \frac{1 \text{ L AgNO}_3}{0.415 \text{ mole AgNO}_3} = 0.0216 \text{ L AgNO}_3$$

5. What volume of 0.496 M HCl is required to neutralize 20.0 mL of 0.809 M sodium hydroxide?



$$\frac{0.0200 \text{ L NaOH}}{1 \text{ L NaOH}} \times \frac{0.809 \text{ mole NaOH}}{1 \text{ L NaOH}} \times \frac{1 \text{ mole HCl}}{1 \text{ mole NaOH}} \times \frac{1 \text{ L HCl}}{0.496 \text{ mole HCl}} = 0.0326 \text{ L HCl}$$

Solution Stoichiometry Worksheet Answer Key

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