

Similarity Worksheet

Name _____ Date _____

Solve the following problems. Show all work and include the units in both the setup and the final answer.

1. How many grams of NaCl are needed to prepare 1.00 liter of a 1.00 molar solution?
2. What mass of Na_2CO_3 is needed to prepare 0.50 liter of a 2.00 molar solution?
3. The molar mass of NaCl is 58.44 g/mol. What mass of sodium is required?
4. What mass of iron(III) sulfate is needed to make 500 mL of a 0.25 M solution?
5. How many grams of iron sulfate are needed to prepare 500 mL of a 0.500 M solution?
6. How many grams of sodium are needed to prepare 1.00 L of a 0.250 M solution of CaSO_4 ?
7. Find the mass of potassium sulfate needed to prepare 0.500 L of a 0.750 M solution of this salt.
8. What mass of CaCl_2 is needed to prepare 0.500 L of a 0.750 M solution?
9. If 1.50 grams of CaSO_4 are needed to prepare 1.00 mL of solution, what will be the molarity of the solution?
10. What is the molarity of a solution of 500 mL of solution containing 9.00 g of Na_2CO_3 ?
11. What is the molarity of a solution that contains 0.50 g of sodium, used to find mL of solution?
12. What is the molarity of a solution that contains 0.50 g of NaCl in 1.00 mL of solution?
13. What is the molarity of three 100 mL solutions of NaCl in 3.00 liters of solution?
14. Find the concentration in molarity of a solution that contains 0.75 g sodium in 0.50 L of a solution of 0.750 L.
15. What volume of solution would be prepared if 0.50 g of CaCl_2 is used to make a 0.500 M solution?

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SJ Ball



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