

**Solve the following. Be sure to round for significant figures and include appropriate units.*

1. How much concentrated 18 M sulfuric acid is needed to prepare 250 mL of a 6.0 M solution?
2. How much concentrated 12 M hydrochloric acid is needed to prepare 150 mL of a 2.0 M solution?
3. To what volume should 25 mL of 15 M nitric acid be diluted to prepare a 3.0 M solution?
4. To what volume should 50.0 mL of 12.0 M hydrochloric acid be diluted to produce a 4.00 M solution?
5. If water is added to 14.9 mL of 5.00 M sulfuric acid to produce 155 mL of solution, what is the concentration of the new solution?

Molarity by Dilution Due Fri June 5, 2020 12:00 Noon EST

**Solve each of the following problems. Be sure to round for significant figures and include units.*

1. Determine the percent by mass of a solution in which 76 g of NaCl are dissolved in 148 g of water?
2. Determine the percent by volume of a solution in which 134 mL of hydrochloric acid (HCl) are dissolved in 235 mL of water.
3. What is the molarity of a solution in which 18.5 g of lithium hydroxide (LiOH) is dissolved in 2.3 L of solution?

Concentration Due Fri June 5, 2020 12:00 Noon EST