

SOLUTION CONCENTRATION PRACTICE WORKSHEET

1. What is the molarity of a solution in which 0.45 grams of sodium nitrate are dissolved in 265 mL of solution?
2. What volume (mL) of a 0.50 M solution of calcium hydroxide contains 25 grams of solute?
3. How many grams of ammonia are present in 5.0 L of a 0.050 M solution?
4. How many grams of solute are present in 275 mL of a 12.5% (m/v) solution of methanol?

5. If 75 mL of water is added to 120 mL of a 0.15 M NaOH solution, what will be the molarity of the final solution?

6. What volume (L) of 0.05 M HCl solution can be prepared by diluting 250 mL of 10 M HCl?

7. 350 mL of a 1.5 M NaCl solution is heated until the volume is reduced to 250 mL. What is the molarity of this solution?

8. Calculate the molarity of a solution prepared by dissolving 120 grams of calcium nitrite in 240 mL of solution.

ANSWERS:

1) 0.020 M

2) 680 mL

3) 4.3 g

4) 34.4 g

5) 0.092 M

6) 50 L

7) 2.1 M

8) 3.8 M