

Concentration Questions

Name _____ Date _____ Period _____

Directions: Read each question carefully. Determine what you need to solve for and then use the concentration triangle formula at the bottom of the page.

Show your work for all questions!

1. A student dissolves 5 grams of a substance in 100 cm^3 of water. What is the concentration of the solution in g/cm^3 ?

2. A student dissolves 25 grams of a substance in 500 cm^3 of water. What is the concentration of the solution in $\text{g}/100 \text{ cm}^3$? Clue: first find the concentration in g/cm^3 and then multiply by 100.

3. A student dissolves 15 grams of a substance in water. The resulting concentration of the solution is 0.2 g/cm^3 . What volume of solvent will be needed?

4. A solution has a concentration of 2 g/cm^3 . There is 150 cm^3 of water as the solvent. What is the total mass of solute needed?

