

Algebra I Worksheet #7 Unit 9 page 2

Write a system of **two equations** with **two variables** and solve each of the following problems. Show your **complete** solution **neatly organized**.

5. Josh invested \$3000, part at 3.5% per year and the rest at 6% per year. If the total interest for the year was \$135, then how much was invested at each rate?

6. A chemist has one solution that is 60% acid and another that is 20% acid. How much of each solution should she use to make 100cc of a solution that is 35% acid?

7. A chemist has one solution that is 45% alcohol and another that is 75% alcohol. How much of each solution should he use to make 60ml of a solution that is 65% alcohol?