

Systems of Equations - Difficult Problems!

You will need a calculator for these problems!

1. Mr. Simon has a very delicate nose. He spent \$24.75 to buy 12 boxes of tissues. The boxes had Puffs and Kleenex. Each Puffs box cost \$2.50 and each Kleenex box cost \$1.75. How many of each box did he buy?
2. Cody wants to rent a car. Snertz is \$22.50 but adds \$0.05 per mile. Fenterprise is \$36.50 and adds \$0.03 per mile. For how many miles will the cost be the same? If he plans to drive 500 miles, which company should he rent from?
3. Hanna has a total of \$10,000 to invest in both stocks and bonds. If bonds earn 4% per year, and stocks earn 7% per year, and Hanna wants \$500 in interest per year, how much of each should she buy?

4. Alex is mixing two different glucose solutions together to get 35 liters. He is mixing 15% glucose solution with 35% glucose solution and needs to get 35 liters of 30% solution. How many liters of each solution should Alex mix?

5. Lohana is mixing salt solutions together. One container has a 25% solution, and the other has a 60% solution. How much of each does Lohana need to mix if she wants 21 liters of a 40% solution?

6. Stanley has 101 coins in dimes and nickels. If he has \$6.45 worth of coins, how many of each does he have?

7. The sum of two numbers is 5460. Their difference is 1790. Find the two numbers.
