Name: _____   Date: _____
Algebra I

Directions: Solve each word problem. Include a let statement, chart, and work to solve. Write your answer as a sentence.

1. Tessa invested $18,000, part at 4% and the rest at 8%. If the total annual income for these investments were equal, find the amount invested at each rate.

2. Patrick invested a sum of money at 10%. He invested a second sum three times the first amount at 3%. If invested a third amount $1,000 more than the second at 6%. If the total annual income for these investments was $1,910, find the amount invested at each rate.

3. Colleen invested a sum of money at 15%. She invested a second sum $1,000 less than the first at 10%. If the total annual income for these investments was $1,150, find the amount invested at each rate.

4. Kendall invested $6,000, part at 2% and the rest at 3%. If the total annual income for these investments were equal, find the amount invested at each rate.

5. James invested a sum of money at 5%. He invested a second sum twice the first amount at 6%. If invested a third amount $500 less than the second at 4%. If the total annual income for these investments was $730, find the amount invested at each rate.

6. Allie invested a sum of money at 12%. She invested a second sum twice the amount of the first at 9%. If the total annual income for these investments was $1,800, find the amount invested at each rate.

7. Brian invested $1,000, part at 4.5% and the rest at 5.5%. If the total annual income for these investments was $53, find the amount invested at each rate.

8. Grace invested $5,000 in a 4% stock and $8,000 in a bond. If her investments earned $600 in a year, what was the rate of return from the bond?

9. Marsha invested a sum of money at 5%. She invested a second sum that was $2,000 less than the first at 10%. If the total annual incomes from both investments were equal to each other, how much did Marsha invest at each rate?