

## Simple Interest Word Problems

1. Vartan was paid \$25,000 for a cell phone app that he wrote and wants to invest it to save for his son's education. He wants to put some of the money into a bond that pays 4% annual interest and the rest into stocks that pay 9% annual interest. If he wants to earn 7.4% annual interest on the total amount, how much money should he invest in each account?
2. Vern sold his 1964 Ford Mustang for \$55,000 and wants to invest the money to earn him 5.8% interest per year. He will put some of the money into Fund A that earns 3% per year and the rest in Fund B that earns 10% per year. How much should he invest into each fund if he wants to earn 5.8% interest per year on the total amount?
3. Dominic pays 7% interest on his \$15,000 college loan and 12% interest on his \$11,000 car loan. What average interest rate does he pay on the total \$26,000 he owes?
4. Liam borrowed a total of \$35,000 to pay for college. He pays his parents 3% interest on the \$8,000 he borrowed from them and pays the bank 6.8% on the rest. What average interest rate does he pay on the total \$35,000?
5. Hattie had \$3000 to invest and wants to earn 10.6% interest per year. She will put some of the money into an account that earns 12% per year and the rest into an account that earns 10% per year. How much money should she put into each account?
6. Carol invested \$2560 into two accounts. One account paid 8% interest and the other paid 6% interest. She earned 7.25% interest on the total investment. How much money did she put in each account?
7. Arnold invested \$64,000, some at 5.5% interest and the rest at 9%. How much did he invest at each rate if he received \$4500 in interest in one year?
8. After four years in college, Josie owes \$65,800 in student loans. The interest rate on the federal loans is 4.5% and the rate on the private bank loans is 2%. The total interest she owes for one year was \$2878.50. What is the amount of each loan?
9. A trust fund worth \$25,000 is invested in two different portfolios. This year, one portfolio is expected to earn 5.25% interest and the other is expected to earn 4%. Plans are for the total interest on the fund to be \$1150 in one year. How much should be invested at each rate?
10. A business has two loans totaling \$85,000. One loan has a rate of 6% and the other has a rate of 4.5%. This year, the business expects to pay \$4,650 in interest on the two loans. How much is each loan?
11. Mark wants to invest \$10,000 to pay for his daughter's wedding next year. He will invest some of the money in a short-term CD that pays 12% interest and the rest in a money market savings account that pays 5% interest. How much should he invest at each rate if he wants to earn \$1095 in interest in one year?

## Key

1. Invest \$8000 toward the bond and \$17000 toward the stocks.
2. Invest \$33000 in Fund A and \$22000 in Fund B.
3. The interest rate is approximately 9.12%.
4. The interest rate is approximately 5.93%.
5. Invest \$2100 in the account earning 10% interest and \$900 in the account earning 12% interest.
6. Invest \$960 in the account earning 6% interest and \$1600 in the account earning 8% interest.
7. Invest \$36000 in the account earning 5.5% interest and \$28000 in the account earning 9% interest.
8. The loan with 2% interest is for \$5300, while the loan with 4.5% interest is for \$60500.
9. Invest \$12000 in the account earning 5.25% interest and \$13000 in the account earning 4% interest.
10. The loan with 6% interest is for \$55000, while the loan with 4.5% interest is for \$30000.
11. Invest \$8500 in the account earning 12% interest and \$1500 in the account earning 5% interest.