

Supplemental Exercises

Applications of Systems of Two Equations: Profit & Loss

- 1) Marquis invested \$4800 in two mutual funds. Last year one of the funds went up by 6% and the other fund went down by 5%. If his portfolio increased in value by \$90 last year, how much did Marquis invest in each fund?
- 2) Alison spent \$6200 on two stocks. One stock decreased in value by 16% and the other increased by 7%. If her investment lost \$49, how much did she invest in each stock?
- 3) Veronica received a \$50,000 insurance settlement. She invested some of this money in a bank CD that paid 3.5% annual interest and invested the rest in a stock. In one year, the stock decreased in value by 30%. If Veronica lost \$1600 from her \$50,000 investment, how much did she put in the bank CD?
- 4) Stefano invested a total of \$8650 in two mutual funds. One fund increased in value by 2% and the other decreased in value by 12%. If Stefano lost a total of \$107 from these two investments, how much did he invest in the stock that showed a 2% profit?
- 5) Holly invested \$4000 in two mutual funds. One fund decreased in value by 14% and the other decreased by 8%. If she lost a total of \$470, how much did she invest in each fund?
- 6) Paolo invested \$37,500 in two stocks. The first stock lost 10% of its value, and the second stock lost 20% of its value. If Paolo showed a loss of \$6250 in these two stocks, how much did he invest in each stock?
- 7) Rick invested a total of \$20,000 in two mutual funds. One fund increased in value by 9%, and the other decreased by 13%. If his investment is now worth \$19,160, how much did he invest in each fund?
- 8) Sofia invested a total of \$36,000 in two stocks. One stock increased by 6% and the other decreased in value by 32%. If her investment is now worth \$28,660, how much did she invest in each stock?