Percent Increase/Decrease Problems

- 1. Alycia invested \$8000 in a stock. In the first year the stock decreased in value by 10%. In the second year the stock decreased in value by 25%. What percentage gain is required in the third year in order for Alycia's stock to return to its original value?
- 2. Dylan invested \$250,000 in a mutual fund. In the first year the mutual fund decreased in value by 20%. In the second year the mutual fund decreased in value by 25%. What percentage gain is required in the third year in order for Dylan's mutual fund to return to its original value?
- 3. Tina invested \$30,000 in a stock. In the first year the stock increased in value by 10%. In the second year the stock decreased in value by 20%. What percentage gain is required in the third year in order for Tina's stock to return to its original value?
- 4. Khalid invested \$100,000 in a mutual fund. In the first year the mutual fund decreased in value by 20%. In the second year the mutual fund increased in value by 25%. What percentage gain is required in the third year in order for Khalid's mutual fund to return to its original value?
- 5. Leticia invested \$60,000 to become a partner in a small business. In the first year her share in the business decreased in value by 50%. In the second year her share in the business increased in value by 60%. What percentage gain is required in the third year in order for Leticia's share in the business to return to its original value?
- 6. Emeril invested \$40,000 to become a partner in a restaurant. In the first year his share in the restaurant decreased in value by 25%. In the second year his share in the restaurant increased in value by 10%. What percentage gain is required in the third year in order for Emeril's share in the restaurant to return to its original value?
- 7. Rhianna invested \$10,000 in a mutual fund. In the first year the mutual fund decreased in value by 20%. In the second year the mutual fund decreased in value by 10%. In the third year the mutual fund increased in value by 15%. What percentage gain is required in the fourth year in order for Rhianna's mutual fund to return to its original value?
- 8. Ming invested \$50,000 in a mutual fund. In the first year the mutual fund decreased in value by 6%. In the second year the mutual fund decreased in value by 10%. In the third year the mutual fund decreased in value by 10%. What percentage gain is required in the fourth year in order for Ming's mutual fund to return to its original value?
- 9. In the year 2007, Donald's stock portfolio decreased in value by 25%. In the year 2008 his stock portfolio decreased in value by another 40%. What percentage gain is required in 2009 in order for Donald's stock portfolio to return to its value at the beginning of 2007?
- 10. In the year 2007, Giada's retirement fund decreased in value by 8%. In the year 2008 her retirement fund decreased in value by another 10%. What percentage gain is required in 2009 in order for Giada's retirement fund to return to its value at the beginning of 2007?