

12. Extend Your Thinking

Name: _____ **Class:** _____ **Date:** _____

1. Explain why two 20% discounts are not the same as one 40% discount.

2. A quantity is multiplied by 1.25 and then by 0.80. Does it return to the original? Explain.

3. Compare “increase by 20%, then decrease by 20%” with “decrease by 20%, then increase by 20%.” Are the results equal?

4. A quantity grows by 10% for three years using repeated multiplication. Write the multiplier expression.

5. Explain the difference between simple interest and repeated-percent growth.

6. A final amount is 72 after a 20% discount. Explain two methods for finding the original amount.
