

12. Extend Your Thinking

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

1. Explain why a 20% discount followed by a 20% discount is not the same as one 40% discount.

2. A value increases by 25% and then decreases by 25%. Does it return to its original value? Explain.

3. Compare a 15% tip and a 15% tax on the same bill. How are they mathematically similar?

4. A price is marked up by 30% and then discounted by 30%. Does the selling price return to the cost? Explain.

5. Create two different contexts with the same final percent, 115%.

6. Explain when the final-percent shortcut is efficient and when the original-change-final method is clearer.
