Unit 6: Percent Increase and Decrease

ADVANCED · SET 2

Name: ______________________________ Date: ______________

Solve each problem. Show your work on scratch paper and write your exact final answer (a number, dollar amount, or percent) on the line provided. Round money to the nearest cent.

1. A store buys a jacket for $85, marks the price up 40%, then puts it on clearance at 30% off the marked-up price. What is the final clearance price in dollars?

Answer: ____________

2. A town's population is 12,500. In the first year it increases by 8%, and in the second year it decreases by 15% from the new total. What is the population after the two years?

Answer: ____________

3. After a 25% increase, the price of an item is $150. What was the original price in dollars?

Answer: ____________

4. A number increased by 12% equals 280. What is the original number?

Answer: ____________

5. A quantity of 500 undergoes two successive 20% increases. What is the overall percent increase from the original value?

Answer: ____________

6. A $240 investment first decreases by 15%, then the new amount increases by 15%. What is the final amount in dollars?

Answer: ____________

7. An employee's salary of $48,000 is raised by 6.5%. What is the new salary in dollars?

Answer: ____________

8. A retailer buys an item for $60 and sells it for $75. What is the percent increase from cost to selling price?

Answer: ____________

9. At checkout a shopper takes 30% off an item's original price, then applies a $5 coupon, and pays $30.50. What was the original price in dollars? Round to the nearest cent.

Answer: ____________

10. A value first decreases by 35%, then the result increases by 40%. What is the net percent change from the original value? (Use a negative sign for a decrease.)

Answer: ____________

11. A phone costs $625. The price first increases by 16%, then a 25% student discount is applied to that increased price. What is the final price in dollars?

Answer: _____________

12. A sum of $8,000 grows by 5% each year for three consecutive years, compounding. What is the amount after three years?

Answer: _____________