Unit 6: Percent Increase and Decrease

ADVANCED

Name: ______________________________ Date: ______________

Show all your work. Give each answer as an exact value (dollars to the nearest cent where needed); do not round unless a problem says to.

1. A store buys a jacket and marks its price up by 40% to get the retail price. During a clearance sale, the retail price is then reduced by 30%. If the store originally paid $85 for the jacket, 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 the new population decreases by 15%. What is the population at the end of the second year?

Answer: ____________

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

Answer: ____________

4. A phone's value dropped by 20%, and it is now worth $960. What was its original value in dollars?

Answer: ____________

5. A quantity increases from 240 to 288. What is the percent increase? Give your answer as a number of percent.

Answer: ____________

6. A quantity decreases from 480 to 372. What is the percent decrease? Give your answer as a number of percent.

Answer: ____________

7. A stock priced at $800 first rises by 50%, then the new price falls by 50%. What is the final price in dollars?

Answer: ____________

8. An employee earns $4,200 per month. Their salary is raised by 12%, and then the raised salary is increased by another 5%. What is the final monthly salary in dollars?

Answer: ____________

9. A price is increased by 20% and then the result is decreased by 20%. What is the overall (net) percent change from the original price? Give your answer as a signed number of percent (use a negative sign for a decrease).

Answer: ____________

10. A concert ticket costs $60. The price is first increased by 15%, and then an 8% tax is added to that increased price. What is the total cost in dollars?

Answer: ____________

11. The price of an item was decreased by 30% and then the reduced price was increased by 30%, leaving it at $91. What was the original price in dollars?

Answer: _____________

12. A value of 750 is increased by 24%. By what percent must the new value then be decreased to return exactly to 750? Round to the nearest hundredth of a percent.

Answer: _____________