7.10 Successive Percent Changes

Chapter 7: Percent

Name: _____ Date: _____ Class/Period: _____

Problem 7.193 Increase 100 by 10%, then decrease the result by 10%.

Problem 7.194 Decrease 200 by 20%, then increase the result by 20%.

Problem 7.195 Apply two successive 25% discounts to $80.

Problem 7.196 Increase 50 by 40%, then by 10%.

Problem 7.197 Decrease 300 by 30%, then by 20%.

Problem 7.198 Find the combined multiplier for +15%, then -8%.

Problem 7.199 Find the net change for +20%, then +30%.

Problem 7.200 Find the net change for -20%, then -30%.

Problem 7.201 Find the net change for +50%, then -50%.

Problem 7.202 What decrease reverses a 25% increase?

Problem 7.203 What increase reverses a 20% decrease?

Problem 7.204 An amount doubles, then falls 40%. Find the net change.

Problem 7.205 An amount falls 40%, then doubles. Find the net change.

Problem 7.206 A price rises 5% in each of two years. Find the total percent rise.

Problem 7.207 A population falls 10% in each of three years. Write the combined multiplier.

Problem 7.208 After a 20% discount, an item costs $\$64$. Find the original.

Problem 7.209 After a 15% increase, a value is 92. Find the original.

Problem 7.210 Explain why +30% followed by -30% gives a 9% decrease.

Problem 7.211 A price is reduced 10%, increased 10%, and then reduced 10% again. Find the final multiplier and net change.

Problem 7.212 A store marks up an item 40% and discounts the marked price 25%. Compare the final price with the original cost.

Problem 7.213 An investment gains 20%, loses 25%, and gains 10%. Find its net percent change.

Problem 7.214 A population returns exactly to its starting value after a 36% increase followed by a decrease. Find the required decrease percent.