Answer Key · Lesson 8.4: Percent Increase and Decrease

School Launch · Pre-Algebra · Unit 8 · Worksheet A · for the parent

Key

1. 30% decrease

A value changes from 120 to 84. Find the percent decrease.

2. 20% increase

A value changes from 210 to 252. Find the percent increase.

3. 8% increase

A value changes from 110 to 118.8. Find the percent increase.

4. 8% decrease

1. Change $= 9.6$; divide by the original 120.

A value changes from 120 to 110.4. Find the percent decrease.

5. 12% increase

1. Change $= 34.8$; divide by the original 290.

A value changes from 290 to 324.8. Find the percent increase.

6. 40% increase

1. Change $= 8$; divide by the original 20.

A value changes from 20 to 28. Find the percent increase.

7. 20% decrease

1. Change $= 26$; divide by the original 130.

A value changes from 130 to 104. Find the percent decrease.

8. 20% decrease

1. Change $= 58$; divide by the original 290.

A value changes from 290 to 232. Find the percent decrease.

9. 50%; no, it becomes \$157.50

1. Change $= 315 - 210 = 105$; $\dfrac{105}{210} = 0.5 = 50\%$
2. Cut by 50%: $315 \times (1 - 0.5) = 157.50$

A price rose from \$210 to \$315. What was the percent increase? Then: if the new price is later cut by that same percent, is it back to \$210?

10. 30%; no, it becomes \$159.25

1. Change $= \dfrac{455}{2} - 175 = \dfrac{105}{2}$; $\dfrac{\frac{105}{2}}{175} = 0.3 = 30\%$
2. Cut by 30%: $\dfrac{455}{2} \times (1 - 0.3) = 159.25$

A price rose from \$175 to \$227.50. What was the percent increase? Then: if the new price is later cut by that same percent, is it back to \$175?