Name _____ Date _____ Class_____

Percent Increase and Decrease

Practice and Problem Solving: D

Jessica had 80 songs on her iPod. She downloaded 10 more songs. What was the percent of increase of songs on her iPod?

Step 1   Find the amount of change.
Subtract the lesser value from the greater value.
Amount of change = 90 − 80 = 10

Step 2   Find the percent of change.

$$\text{Percent of Change} = \frac{\text{Amount of Change}}{\text{Original Amount}}$$

$$= \frac{10}{80} \times 100 = 12.5\%$$

Find each percent increase. Round to the nearest percent. The first one is done for you.

1. From $15 to $21 __**40%**__

2. From 12 teachers to 48 teachers _____

3. From 80 pencils to 152 pencils _____

4. From 40 cans to 70 cans _____

Find each percent decrease. Round to the nearest percent. The first one is done for you.

5. From 80 miles to 15 miles __**81%**__

6. From 100 ounces to 25 ounces _____

7. From $60 to $40 _____

8. From 39 seconds to 13 seconds _____

Find the new amount given the original amount and the percent of change. The first one is done for you.

9. $25; 10% increase __**$27.50**__

10. 160 bananas; 20% decrease _____

11. 200 books; 75% decrease _____

12. 52 companies; 25% increase _____

Solve.

13. Last year, there were 400 students at Woodland Middle School. This year, the student population will increase by 5%. What will be the school's student population this year?

_____

14. A backpack that normally sells for $39 is on sale for 30% off. Find the amount of the sale price.

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