

Unit Review

<p>1. In 1909, the average American consumed 18 pounds of butter. In 1999, the average American consumed about 27% of that amount. About how much butter did the average American consume in 1999?</p> <p>4.86 lbs.</p>	<p>2. Pat makes 3% commission on his total weekly sales. If his weekly sales total \$2,350, what is his amount of commission earned?</p> <p>\$70.50</p>	<p>3. The population of California was 151.4 million people in 1980. By 1990, it was 190.8 million. Find the percent of change and round to the nearest tenth of a percent.</p> <p>26% inc.</p>	<p>4. You estimated there were 89 jellybeans in a jar. There are actually 115 jellybeans in the jar. What is the percent error of your guess?</p> <p>22.6%</p>	<p>5. What is the sale price of a sweater if the regular price is \$60 and it's on sale for 25% off?</p> <p>\$45</p>
<p>6. Mark weighed 110 pounds last year. He weighs 119 pounds this year. What is the percent of change in his weight? Round to the nearest tenth of a percent if necessary.</p> <p>8.2%</p>	<p>7. What is the simple interest earned if \$800 is deposited at an interest rate of 2% for 9 months?</p> <p>\$12</p>	<p>8. Bryce predicted that 150 people would attend the concert. Because of rain, only 140 people actually showed up. What is the percent error of the concert attendance?</p> <p>7.14%</p>	<p>9. What is the total cost of an item that is marked \$20.00 if the sales tax is 8%?</p> <p>\$21.60</p>	<p>10. Athletic shoes that regularly sell for \$85.99 are on sale for 20% off. How much is saved on the shoes?</p> <p>\$17.20</p>
<p>11. Water freezes at 32°F, but in Ron's experiment, the water froze at 33°F. What is the percent error in Ron's experiment?</p> <p>3.125%</p>	<p>12. Shoes cost a store \$56.40. The mark up is 17%. Find the amount increase and the selling price of the shoes.</p> <p>\$9.59 \$65.99</p>	<p>13. What is the sale price of a new computer that costs \$450.00 if the amount of discount is 25% off?</p> <p>\$337.50</p>	<p>14. Does taking a 7% discount on an item and then paying 7% tax result in the original price of the item? Justify your answer.</p> <p>NO</p>	<p>15. What is the total amount of interest paid on a \$150 loan with an 8% interest rate and a time of 2 years?</p> <p>\$24</p>
<p>16. A salesperson made \$128 commission selling merchandise. His commission rate was 5%. Find the dollar amount of his sales.</p> <p>\$2560</p>	<p>17. The price of a gallon of gasoline increased from \$2.50 a gallon to \$2.75 a gallon. What was the percent of change?</p> <p>10% increase</p>	<p>18. What is the selling price of a \$60 video game with a 28% mark up and 6% tax?</p> <p>\$81.41</p>	<p>19. If a 15% tip was left for a server, what was the amount of the tip in dollars if the total cost of the meal was \$24? (Hint: 100% for cost of meal and a 15% tip.)</p> <p>\$3.13 $24 - 20.87$</p>	<p>20. Wesley expected to run 2 miles in 14 minutes. He actually ran the 2 miles in 16 minutes. What was the percent error?</p> <p>12.5%</p>
<p>21. Henry earns \$50 interest on money he invested at a 5% interest rate for 6 months. How much money did he invest?</p> <p>\$2,000</p>	<p>22. If an item is discounted 30% and then an additional 20% at the register, does that equal to 50% off the original price? Explain with examples.</p> <p>NO</p>	<p>23. What is the ending balance if \$900 is deposited at a simple-interest rate of 8% for 3 years?</p> <p>\$1170 \$1116</p>	<p>24. John's electric bill went from \$68 last month to \$54.40 this month. What was the percent of change in his bill?</p> <p>20% decrease</p>	<p>25. A \$59.50 coat is on sale for \$36.50. About how much is the percent of change?</p> <p>38.7% decrease</p>

$\frac{128}{100} = \frac{105}{100}$

$5 \times ? = 128$

$\frac{128}{100} = \frac{5}{100}$

$\frac{2}{24} = \frac{?}{100}$

$\frac{128}{?} = \frac{5}{100}$

$5\% \text{ of } ? = 128$

$115\% \text{ of } 24$

$\frac{24}{?} = \frac{15}{100}$

$5\% \text{ of } ? = 128$

20.87