

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Review - Unit 9: Percents

Solve the following problems using the percent proportion. Make sure to label if the answer is a percent. Round to the nearest tenth.

1. 5% of 100 is what number? $\frac{x}{100} = \frac{5\%}{100}$ <span style="border: 1px solid black; padding: 2px;">5</span> $5 \times 100 = \frac{500}{100} = 5$	2. 32 is what percent of 5? $\frac{32}{5} = \frac{x}{100}$ <span style="border: 1px solid black; padding: 2px;">640%</span>
3. 13% of what number is 6.5? $\frac{6.5}{x} = \frac{13\%}{100}$ <span style="border: 1px solid black; padding: 2px;">50</span>	4. 10.5% of 80 is what number? $\frac{x}{80} = \frac{10.5\%}{100}$ <span style="border: 1px solid black; padding: 2px;">8.4</span>
5. 0.495 is what percent of 2.2? $\frac{.495}{2.2} = \frac{x}{100}$ <span style="border: 1px solid black; padding: 2px;">22.5%</span>	6. What percent of 250 is 100? $\frac{100}{250} = \frac{x}{100}$ <span style="border: 1px solid black; padding: 2px;">40%</span>

Solve each of the following problems involving percents. Write down what you are putting in the calculator.

7. Mark calculated that he makes 65% of his field goal attempts in the football games. Which number best represents the number of field goals Mark will make if he attempts 50? A. 77 field goals B. 70 field goals C. 33 field goals D. 30 field goals $\frac{x}{50} = \frac{65}{100}$ 32.5	8. Martina receives a weekly allowance. She is saving 20% of it each week to buy a new iPod. If Martina saved \$4 from her last allowance, how much does she earn each week? A. \$20 B. \$80 C. \$8 D. \$24 $\frac{4}{x} = \frac{20\%}{100}$ 20
9. Lou is buying a used car for \$3000. He is paying 30% of the price and his parents are paying the rest. How much did his parents pay? A. \$900 B. \$300 C. \$1300 D. \$2100 $\frac{x}{3000} = \frac{70\%}{100}$	10. In a bowl of jelly beans, 15 out of 35 are red. What percent of the jelly beans are red? A. 0.429% B. 4.29% C. 42.9% D. 429% $\frac{15}{35} = \frac{x}{100}$ 42.9%

<p>11. The sporting goods store has a sale in which all basketball jerseys are 30% off the retail price. What is the sale price of a jersey that has a retail price of \$50?</p> <p><input checked="" type="radio"/> A. \$35.00     <math>3 \times 50 = 15</math>  <input type="radio"/> B. \$15.00  <input type="radio"/> C. \$65.00  <input type="radio"/> D. \$30.00</p>	<p>12. Max's Game Land is having a 20%-off sale on all items. If you want to buy a game that has a retail price of \$30, what would be the total price including a 7% sales tax?</p> <p>A. \$24.00     <math>30 \times .2 = 6</math>  <input checked="" type="radio"/> B. \$25.68     <math>24.00</math>  <input type="radio"/> C. \$32.10     <math>- 6</math>  <input type="radio"/> D. \$30.00     <math>24 \times .07 = 1.68</math>  <math>\underline{\hspace{1cm}}</math>  <math>\hspace{1cm} + 1.68</math></p>
<p>13. There is a big sale on TVs. The regular price is \$400. The discount amount is \$120. What percent discount is this?</p> <p>A. 24%  <input checked="" type="radio"/> B. 30%     <math>\frac{120}{400} = \frac{x}{100}</math>  <input type="radio"/> C. 70%  <input type="radio"/> D. 76%</p>	<p>14. There is a 6.3% sales tax on an item that costs \$249.99. How much is the item including tax?</p> <p>A. \$15.75  <input type="radio"/> B. \$234.24  <input checked="" type="radio"/> C. \$265.74     <math>249.99 \times .063 = 15.75</math>  <input type="radio"/> D. \$181.99     <math>15.75 + 249.99</math></p>
<p>15. Tamika weighed 215 pounds last year. After eating healthy and exercising, she now weighs 155 pounds. What is the approximate percent of decrease in Tamika's weight?</p> <p>A. 39%     <math>\frac{215 - 155}{215}</math>  <input type="radio"/> B. 72%  <input type="radio"/> C. 139%  <input checked="" type="radio"/> D. 28%     <math>27.9\%</math></p>	<p>16. A house has a value of \$150,000. After remodeling the kitchen and bathrooms, it now has a value of \$165,000. What is the percent of increase in the value of the house?</p> <p>A. 9%     <math>\frac{165000 - 150000}{150000}</math>  <input type="radio"/> B. 10%  <input type="radio"/> C. 11%  <input type="radio"/> D. 12%</p>
<p>17. The Target stores buy picture frames from a wholesale company for \$5 and then sell them at a 185% markup in price. What is the <u>retail price</u> of the frames at Target?</p> <p>A. \$2.70     <math>5 \times 1.85 = 9.25</math>  <input type="radio"/> B. \$9.25  <input type="radio"/> C. \$190     <math>9.25 + 5 = 14.25</math>  <input checked="" type="radio"/> D. \$14.25</p>	<p>18. 3 out of 8 students bring their lunch to school. What percent of students do not bring their lunch to school?</p> <p>A. 37.5%  <input checked="" type="radio"/> B. 62.5%     <math>\frac{3}{8}</math>  <input type="radio"/> C. 60%     <math>\frac{5}{8}</math>  <input type="radio"/> D. 35%     <math>\frac{5}{8}</math>  <math>\frac{5}{8}</math>  <u>8 TOTAL</u></p>
<p>19. Taylor has 25 stuffed animals. <u>She took 20% of her stuffed animals with her to a slumber party.</u> How many stuffed animals did she leave at home?     <math>25 - 20 = 5</math></p> <p>A. 10 stuffed animals  <input type="radio"/> B. 5 stuffed animals     <math>\frac{x}{25} = \frac{80}{100}</math>  <input type="radio"/> C. 15 stuffed animals  <input checked="" type="radio"/> D. 20 stuffed animals</p>	<p>20. Doug sold 125 sandwiches to raise money for his boy scout troop. 80% of those sandwiches were sold in his neighborhood. How many did he sell in his neighborhood?</p> <p><input checked="" type="radio"/> A. 100 sandwiches  <input type="radio"/> B. 20 sandwiches     <math>\frac{100}{125} = \frac{80}{100}</math>  <input type="radio"/> C. 25 sandwiches  <input type="radio"/> D. 80 sandwiches</p>

21. How many ounces in an pound? 16 oz

22. How many feet in a mile? 5280 ft

23. How many yards in a mile? 1760 yds

24. How many fluid oz in a cup? 8 fl. oz

$3 \overline{) 5280}$