

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.

<p>1. 5% of 100 is what number?</p> $\frac{x}{100} = \frac{5}{100} \quad \boxed{5}$ $5 \times 100 = \frac{500}{100} = 5$	<p>2. 32 is what percent of 5?</p> $\frac{32}{5} = \frac{x}{100} \quad \boxed{640\%}$
<p>3. 13% of what number is 6.5?</p> $\frac{6.5}{x} = \frac{13}{100} \quad \boxed{50}$	<p>4. 10.5% of 80 is what number?</p> $\frac{x}{80} = \frac{10.5}{100} \quad \boxed{8.4}$
<p>5. 0.495 is what percent of 2.2?</p> $\frac{.495}{2.2} = \frac{x}{100} \quad \boxed{22.5\%}$	<p>6. What percent of 250 is 100?</p> $\frac{100}{250} = \frac{x}{100} \quad \boxed{40\%}$

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

<p>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?</p> <p>A. 77 field goals B. 70 field goals <input checked="" type="radio"/> C. 33 field goals D. 30 field goals</p> $\frac{x}{50} = \frac{65}{100}$ <p style="text-align: center; margin-left: 100px;">32.5</p>	<p>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?</p> <p><input checked="" type="radio"/> A. \$20 B. \$80 C. \$8 D. \$24</p> $\frac{4}{x} = \frac{20}{100}$ <p style="text-align: center; margin-left: 100px;">20</p>
<p>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?</p> <p>A. \$900 B. \$300 C. \$1300 <input checked="" type="radio"/> D. \$2100</p> $\frac{x}{3000} = \frac{70}{100}$	<p>10. In a bowl of jelly beans, 15 out of 35 are red. What percent of the jelly beans are red?</p> <p>A. 0.429% B. 4.29% <input checked="" type="radio"/> C. 42.9% D. 429%</p> $\frac{15}{35} = \frac{x}{100}$ <p style="text-align: center; margin-left: 100px;">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?

- A. \$35.00 $3 \times 50 = 15$
 B. \$15.00
 C. \$65.00
 D. \$30.00

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?

- A. \$24.00 $30 \times .2 = 6$
 B. \$25.68 24.00
 C. \$32.10 -6
 D. \$30.00 $24 \times .07 = 1.68$
 $24.00 + 1.68$

13. There is a big sale on TVs. The regular price is \$400. The discount amount is \$120. What percent discount is this?

- A. 24%
 B. 30% $\frac{120}{400} = \frac{x}{100}$
 C. 70%
 D. 76%

14. There is a 6.3% sales tax on an item that costs \$249.99. How much is the item including tax?

- A. \$15.75 $249.99 \times .063 = 15.75$
 B. \$234.24 $15.75 + 249.99$
 C. \$265.74
 D. \$181.99

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?

- A. 39% $\frac{215-155}{215}$
 B. 72%
 C. 139%
 D. 28% 27.9%

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?

- A. 9% $\frac{165000-150000}{150000}$
 B. 10%
 C. 11%
 D. 12%

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 retail price of the frames at Target?

- A. \$2.70 $5 \times 1.85 = 9.25$
 B. \$9.25
 C. \$190 $9.25 + 5 = 14.25$
 D. \$14.25

18. 3 out of 8 students bring their lunch to school. What percent of students do not bring their lunch to school?

- A. 37.5%
 B. 62.5% $\frac{3 \text{ BRING}}{5 \text{ DON'T}} = \frac{5}{8}$
 C. 60%
 D. 35% 8 TOTAL

19. Michael put \$3000 into a money-market account and left it there for 6 months. He then closed the account and received a check for \$3200. What was the approximate yearly simple interest rate on the account?

- A. 19% $(3000)(\frac{1}{2})(x) = 200$
 B. 13% $\frac{1500x = 200}{1500} = \frac{200}{1500}$
 C. 0.19%
 D. 0.13% $\frac{3200}{3000} = \frac{32}{30} = 1.0667$
 $1.0667 - 1 = 0.0667$
 $0.0667 \times 2 = 0.1334$

20. Ken deposited \$100 into an account that pays him 5% simple interest. What is the balance of his account after 8 years?

- A. \$40 $(100)(.05)(8) = X$
 B. \$60
 C. \$90
 D. \$140