


Accelerated Math 7 Chapter 6 Practice Test

<p>1. What number is 34% of 50?</p> <p style="text-align: center;"> $\frac{\text{PART}}{\text{WHOLE}} = \frac{\text{PERCENT}}{100}$ $\frac{x}{50} = \frac{34}{100}$ </p>	$\frac{x}{50} = \frac{34}{100}$
<p>2. 88 is 110% of what number?</p> <p> $\frac{88}{x} = \frac{110}{100}$ $88(100) = 110(x)$ $\frac{8800}{110} = \frac{110x}{110}$ $80 = x$ </p> <p style="text-align: right;">CHECK $1.10(80) = 88$</p>	<p>80</p>
<p>3. Fifteen of 40 marbles are striped. What percent of the marbles are striped?</p> <p> $\frac{15}{40} = \frac{3}{8} = 0.375 =$ </p>	<p>37.5%</p>
<p>4. A survey shows that that 65% of cat owners say their cat always come when they call it. If 15,000 cat owners were surveyed, how many people made this claim?</p> <p>FINDING PART $15,000(0.65) = 9,750$</p>	<p>9,750 CAT OWNERS</p>
<p>5. Which equation can be used to find what percent 6 is of 72?</p> <p> A. $72 = 6p$ B. $(72 - 6) = 100p$ C. $6 = 72p$ D. $6(72) = p$ </p> <p> $\frac{6}{72} = p$ $\frac{10}{40} = 0.25 = 25\%$ $6 = 72p$ </p>	<p>C</p>
<p>6. Fiona deposited \$900 in the bank over 2 years. She earned \$60.00 in simple interest at the end of the 2 years. What was the annual interest rate?</p> <p> $\frac{30}{900} = 0.0\bar{3} = 3\frac{1}{3}\%$ $900(0.0333 \times 2) = 60$ </p>	<p>3 1/3% 0.03</p>
<p>7. Megan's dog weighed 18lbs. when it was one year old. Now the dog weighs 25lbs. What is the percent of change in her dog's weight to the nearest hundredth?</p> <p> $25 - 18 = 7$ $\frac{7}{18} = 0.3\bar{8} \approx 38.888\% \approx 38.89\%$ </p>	<p>38.89%</p>
<p>8. An investment of \$800 is compounded annually at 6.5%. What is the total amount of money after 2 years?</p> <p> $800(0.065) = 52.00$ $852(0.065) = 55.38$ \uparrow $\\$107.38$ INT </p>	<p>\$907.38</p>

<p>9. A store makes a profit of \$12 on a hoodie after a markup of 60%. What is the selling price of the hoodie?</p> <p>$\\$12 = 60\% \text{ MARKUP}$</p> <p>$\\$12 \text{ IS } 60\% \text{ OF } X$</p> <p>$\frac{12}{X} = \frac{60}{100} = \frac{3}{5}$</p> <p>$\frac{12}{20} = \frac{3}{5}$</p> <p>$\frac{1200}{60} = \frac{60X}{60}$</p> <p>$20 = X$</p> <p>$\\$20 = \text{STORES COST}$</p> <p>$12 = \text{PROFIT}$</p> <p>$\\$32$</p>	
<p>10. During peak season, boat rentals cost \$80 per day. During the off-season, they cost \$60 per day. What is the percent of change from peak season to off-season?</p> <p>$\\$80 \rightarrow \\60</p> <p>$\\$20 \text{ CHANGE}$</p> <p>$\frac{20}{80} = 0.25$</p>	<p>25% DECREASE</p>
<p>11. Collin buys a pair of shoes marked \$89.99. He receives a 20% discount. Which equation can be used to determine the sale price of the shoes?</p> <p>A. $s = 89.99(0.20)$</p> <p>B. $s = 89.99(1.80)$</p> <p>C. $s = 89.99(0.80)$</p> <p>D. $s = 89.99(1.20)$</p> <p>SAVE 20% YOU PAY 80%</p>	<p>C</p>
<p>12. A used laptop computer sells for \$180, which is an 85% reduction from the original price. What was the original price of the computer?</p> <p>$\\$180 = 15\%$</p> <p>$\frac{180}{X} = \frac{15}{100}$</p> <p>$\frac{18000}{15} = \frac{15X}{15}$</p> <p>$1200 = X$</p>	<p>\$1,200</p>
<p>13. A local meteorologist estimated 4.5 inches of snow for the month of December. The actual snowfall was 3.0 inches. What was the percent error of the estimate to the nearest percent?</p> <p>$4.5 - 3.0 = 1.5$</p> <p>$\frac{1.5}{3.0} = 50\%$</p>	<p>50%</p>
<p>14. Which fraction would be best to use to find 20% of 48 mentally?</p> <p>A. $\frac{1}{5} = 20\%$</p> <p>B. $\frac{1}{4}$</p> <p>C. $\frac{1}{3}$</p> <p>D. $\frac{1}{2}$</p>	<p>A</p>
<p>15. Manny deposits \$275 into an account that earns 2.5% simple interest. Justina deposits \$225 into an account that earns 6% simple interest. How much money is in each account after 10 years? At those interest rates, how many years would it be before Justina has more money than Manny?</p> <p><u>MANNY</u></p> <p>$\\$275(0.025) = \\6.88</p> <p>$275 + 6.88(10)$</p> <p>$275 + 68.80$</p> <p>$\\$343.80$</p> <p><u>JUSTINA</u></p> <p>$\\$225(0.06) = \\13.50</p> <p>$225 + 13.5(10)$</p> <p>$225 + 135$</p> <p>$\\$360$</p> <p>$\\$13.50 - \\$6.88 = \\6.62</p> <p>$\frac{50}{6.62} = 7.55$</p>	<p>Manny (10 yrs)</p> <p>$\\$343.75$</p> <p>Justina (10 yrs)</p> <p>$\\$360$</p> <p>Years till Justina has more total money than Manny.</p> <p>JUSTINA'S TOTAL WILL PASS MANNY'S TOTAL DURING THE 7TH YEAR.</p>