

Accelerated Math 7 Chapter 6 Practice Test

<p>1. What number is 34% of 50?</p> $0.34(50) = 17$ $34\% \text{ of } 100 = 34$ <p style="text-align: center;">50</p> $34\% \text{ of } 50 = 17$	17
<p>2. 88 is 110% of what number?</p> $\frac{88}{11} = 8 \quad 8(10) = 80$ $\frac{88}{x} = \frac{110}{100}$ $\frac{8800}{110} = 80$	80
<p>3. Fifteen of 40 marbles are striped. What percent of the marbles are striped?</p> $\frac{15}{40} \cdot \frac{2.5}{2.5} = \frac{37.5}{100}$ $\text{PERCENT} = \frac{\text{PART}}{\text{WHOLE}}$ $\frac{15}{40} = 37.5$	37.5%
<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> $\text{WHAT IS } 65\% \text{ OF } 15,000$ $15000(0.65) = 9,750$	9,750
<p>5. Which equation can be used to find what percent 6 is of 72?</p> <p>A. $72 = 6p$ B. $(72 - 6) = 100p$</p> <p>C. $6 = 72p$ D. $6(72) = p$</p> $\frac{6}{72} = p$ $\% = \frac{\text{PART}}{\text{WHOLE}}$	C
<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> $\frac{I}{P(T)} = \frac{P(R)(T)}{P(T)} \rightarrow R = \frac{I}{P(T)}$ $\frac{60}{900(2)} = \frac{60}{1800} = \frac{6}{180} = \frac{1}{30} = 0.0\bar{3}$	$3\frac{1}{3}\%$ $3.3\bar{3}\%$
<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>STEP 1: $25 - 18 = 7$ STEP 2: $\frac{7}{18} = 0.3\bar{8}$</p> 38.9% 38.889%	<p>INCREASE</p> 38.89%
<p>8. An investment of \$800 is <u>compounded</u> annually at 6.5%. What is the total amount of money after 2 years?</p> <p>SIMPLE INTEREST</p> $800(0.065)(2) = \$104.03$ <p>COMPOUND INTEREST</p> $YR1 \rightarrow 800(0.065) = 52$ $YR2 \rightarrow 852(0.065) = 55.38$ 107.38	<p>107.38 INTEREST</p> <p>800.00 PRINCIPAL</p> $\$907.38$

