NAME	DATE	PERIOD	NUMBER

## Accelerated Math 7 Chapter 6 Test

1. Which proportion can be used to find what number is 44% of 50? PART	
$\mathbf{A}. \frac{x}{50} = \frac{44}{100}$ $\mathbf{B}. \frac{50}{x} = \frac{44}{100}$	* /
C. $\frac{x}{50} = \frac{64}{100}$ D. $\frac{44}{x} = \frac{x}{50}$	· A
2. 75 is 125% of what number? WHOLE	
A. 1.6 B. 50 $\frac{75}{X} = \frac{725}{700}$ $\frac{7500}{725} = \frac{725}{725}$	0
$\frac{75}{x} = \frac{725}{100} = \frac{7500}{125}$	
60 = X	
3. Thirty-six of 80 marbles are blue. What percent of the marbles are blue? PERCENT	
A.)45% B. 22.2% C. 36% D. 48%	1
$\frac{36}{80} = \frac{X}{100} = \frac{3600}{80} = \frac{80X}{80} = \frac{360}{100} = \frac{360}{100} = \frac{360X}{100} = $	H
80 /00 80 80 1-13	
4. Results from a survey show that that 36% of dog owners say their dog sleeps in a family PART	
member's bed. If 12,500 pet owners were polled, how many people made this claim? <b>A.</b> 347 <b>B.</b> 4167 <b>C.</b> 4500 <b>D.</b> 8000	
	C
PART = 12,500 (36%) 12,500 (0.36)	
THE STATE OF THE S	
5. Which equation can be used to find what percent 18 is of 125? <b>PERCENT</b> A. $125 = 18p$ B. $(125 - 18) = 360p$	
COR"P	C
$ \begin{array}{c} \text{D. } 18 = 125p \\ \text{Solute} \end{array} $ $ \begin{array}{c} \text{D. } 18(125) = p \\ \end{array} $	
5"	
<b>6.</b> Fiona deposited \$900 in the bank over 2 years. She earned \$67.50 in simple interest at the end of	
the 2 years. What was the annual interest rate?	
<b>A.</b> $3\frac{3}{4}\%$ <b>B.</b> 6.75% <b>C.</b> 33.75% <b>D.</b> $66\frac{2}{3}\%$	Λ
\$67.50 \$22.75 250 33.75	$\mid \mathcal{H} \mid$
\$67.50 = \$33.75 PER 33.75 = 0.0375	
7. Lisa's little brother weighed 45lbs. on his 5 <sup>th</sup> birthday. On his 9 <sup>th</sup> birthday he weighed 75lbs.	
What was the percent of change in her brother's weight to the nearest hundredth?	66 3 %
$\frac{75-45}{45} = \frac{30}{45} = 0.6$	OR
45 45	66.679.
8. An investment of \$1000 is compounded annually at 8%. What is the total amount of money after	
2 years? <b>A.</b> \$160 <b>B.</b> \$166.40 <b>C.</b> \$1160 <b>D.</b> \$1166.40	
A. \$160  B. \$166.40  C. \$1160  \$\ight( \begin{array}{ccccc} \beta \)  \begin{array}{cccccccccccccccccccccccccccccccccccc	
86.40 \$1,166.40	
P 1,7 66.7 °	

9. A store makes a					
sweater? <b>A.</b> \$11	<b>B</b> \$28	C. \$32	<b>D.</b> \$50	PART	
	R 40	0 ROO = 40x		400	$\mid \mathcal{B} \mid$
	<u> </u>	900 = 40x 40 40		\$20 8	
	X 100	X = 20 (0R161	VAL PRICE	<b>#28</b>	
		osts \$135 per night. During th	e off-season, it		
		percent of change from peak			
$\triangle$ 33 $\frac{1}{3}$ % decre	ease	B. 50% increase	135-90	45-03	Δ
<b>C.</b> $33\frac{1}{3}\%$ increases	ase	<b>D.</b> 50% decrease	135	135	<i>T</i> '
	sale price of the suit?	e receives a 20% discount. When the contract $\mathbf{B}$ is $s = 64.99(1.80)$ $\mathbf{D} \cdot s = 64.99(1.20)$	hich equation ca	nn be used to	С
	p computer sells for §		0	I amend	
	al price of the comput	43000 = 25x	2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$1,720
was the origina	al price of the compute $\frac{430}{x} = \frac{25}{100}$ amins should have 60	ter?  43000 = 25x  25			\$1,720
was the origina	amins should have 60 or to the nearest hund	ter?  43000 = 25x  x = /720  vitamins. The actual number dredth?			
was the origina  3. A bottle of vita	amins should have 60 or to the nearest hund	ter?  43000 = 25x  25			\$1,720
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