%	% PERCENT STUDY GUIDE %		
PERCENT	$\frac{\text{TO DECIMAL}}{\text{DIVIDE BY 100}}$ (SHORTCUT: Move the decimal two places to the <u>LEFT</u> .) $14\% = \frac{14}{100} = 0.14$	TO FRACTION Write the percent over 100 and simplify the fraction.5% = $\frac{5}{100} = \frac{1}{20}$	
DECIMAL	$\frac{\text{TO PERCENT}}{\text{MULTIPLY BY 100}}$ (SHORTCUT: Move the decimal two places to the RIGHT.) $0.28 = 0.28(100) = 28\%$	TO FRACTION READ the number (REMEMBER: only the number after the decimal is written as a fraction), and then simplify the fraction. $1.6 = 1\frac{6}{10} = 1\frac{3}{5}$	
FRACTION	• Divide numerator by denominator, and move the decimal two places to the RIGHT $\frac{2}{5} = 2 \div 5 = 0.4 = 40\%$ • Set up a percent proportion & solve. $\frac{2}{5} = \frac{x}{100} \qquad 5x = 200$ $x = 40\%$	TO DECIMAL Divide the numerator by the denominator. $\frac{3}{5} = 3 \div 5 = 0.6$	
PERCENT PROPORTION $\frac{is}{of} = \frac{\%}{100}$ 28 is 40% of what number? $\frac{28}{x} = \frac{40}{100}$ $40x = 2800$ $x = 70$		PERCENT WORD PROBLEMS $\frac{part}{whole} = \frac{\%}{100}$ There are 44 students in Mrs. Gizzi's math classes of which 25% received an A on the last test. How many students got an A? $\frac{x}{44} = \frac{25}{100}$ $100x = 1100$ $x = 11$	
PERCENTS WITH \$:MULTIPLY AMOUNT BY % (written as a decimal). A video game store has a 20% off sale on all games. How much would you save on a game that originally cost \$32?32 $\underline{x \cdot .2}$ $6.4 \rightarrow 6.40 TO CALCULATE FINAL COST:DISCOUNT \rightarrow DEDUCTTAX & TIP \rightarrow ADD			