PERCENTS – Notes and Homework: DUE ON EXAM

Percentage problems require limited, but important knowledge. When given a percent, you must convert it to a decimal or fraction before you can do any math calculations.

Percent to Decimal:

Move the decimal 2 places to the left – divide the percent number by 100.

Decimal to Percent:

Move the decimal 2 places to the right – multiply the percent by 100.

Fraction to Percent:

Change to a decimal and move the decimal point 2 places to the right – divide and multiply by 100.

Let's look at 1 dollar.

- 50% of a dollar is _____ (cents). Yes, move the decimal 2 places to the left.
- 50 cents or .50 is ______percent of a dollar. Yes, move the decimal 2 places to the right.
- ¹/₂ of a dollar is _____(cents), yes, we divided, now move the decimal 2 to the left and we get _____%.

Percent problems come in basically one type of problem. You will need to fill in the information and solve.

- A number is a percent of another number.
- # = % × #
- _____= _____ × ____ **example:** Joe sells cars. He gets paid a percent (commission) of the price of the cars he sells. Joe gets paid 3% and sells \$50,000.

$$pay = \% \times price$$
$$x = .03 \cdot 50,000 \rightarrow x = 1500$$

Joe makes 4% and made \$2000

$$pay = \% \times price$$
$$2000 = .04 \times x \rightarrow \frac{2000}{.04} = 50,000$$

Joe made \$3600 and sold \$45,000

$$pay = \% \times price$$

$$3600 = \% \times 45000 \rightarrow \frac{3600}{45000} = .08 = 8\%$$
Such fill in the blanks and solved

just fill in the blanks and solve!

PERCENT HOMEWORK		
NAME		CLASS PERIOD
A number is a percent of a number.		
This formula works for	n all percents lust fi	" II in the blanks and
solve.	bi un percents. Sust n	
Write each percent as a decimal and as a fraction.		
1. 17%	2. 22%	3. 68%
4. 2.5%	5. 140%	6. 1/2 %
Write each decimal or fraction as a percent		
7. 0.28	$8 \frac{13}{2}$	q ¹⁹
/1 0120	$\frac{1}{50}$	$9.\frac{10}{10}$
Find each value. Round to the nearest tenth if necessary.		
10. 3% of 100	11. 100% of 3	12. 80% of 20
13 115% of 6	14 What percent of	15 3 is what percent of
13. 115 /0 01 0	128 is 32?	36?
	110.001	
16 23 7 is 30% of what	17 7 1/2 % of what	
number	number is 12?	
hamber		

And our real live TAKS problems:

18. According to the US Census, Virginia had about 7.1 million residents in 2000. Of those, 24.6% were under the age of 18. To the nearest tenth of a million, how many Virginia residents were under the age of 18 in 2000?

Answer_____

19. A CD-ROM has 700 megabytes of storage space. What percent of the space is used by a file that takes up 154 megabytes?

Answer_____