



Consumer Math Notes

Find the following total pay using the overtime formula.

1. 46 hour work week

2. 50 hour work week

3. 48 hour work week

Unit 2: Budgets

Vocabulary

Means per 100 ~ a ratio whose denominator is 100

A plan for saving/spending money

Partial compensation for work done

The cost of one of an item in a group

Percents:

To write a percent as a fraction,

- Just put it over 100 and simplify it!

Examples: $50\% = 50/100 = \frac{1}{2}$
 $24\% = 24/100 = 6/25$
 $55\% = 55/100 = 11/20$
 $12\% = 12/100 = 3/25$



To write a fraction as a percent,

- Divide the numerator by the denominator and then move the decimal point 2 places to the right.

Examples: $\frac{4}{5} = 4 \div 5 = .80 = 80\%$
 $\frac{1}{5} = 1 \div 5 = .20 = 20\%$



Another way to write a fraction as a percent...

- You can also set it equal to $n / 100$
 - This only works when the denominator is compatible with 100. (This is why I always use the other method!)

Examples: $\frac{1}{5} = n / 100$ $n = 20$ or 20%
 $\frac{3}{25} = n / 100$ $n = 12$ or 12%



To change a decimal to a percent,

- Move the decimal point 2 places to the right (like multiplying by 100).

Example: $.45 = 45\%$ $.08 = 8\%$
 $.70 = 70\%$
 (Note: arrows indicate moving the decimal point two places to the right, and "add a zero" is noted for .08 and .70)



To change a percent to a decimal,

- Move the decimal point 2 places to the left (Just the opposite of the previous method).

Example: $67\% = .67$ $73\% = .73$
 $8\% = .08$
 (Note: arrows indicate moving the decimal point two places to the left, and "add a zero" is noted for 8% and 73%)



To find a percent of a number,

- Change the percent to a decimal and multiply. Remember, "of" means multiply.

Example: $60\% \text{ of } 75 = .60 \times 75 = 45$
 $25\% \text{ of } 200 = .25 \times 200 = 50$
 $40\% \text{ of } 95 = .40 \times 95 = 38$



Write the following percents as fractions in simplest form:

1. 44%

2. 65%

3. 10%

4. 87%