



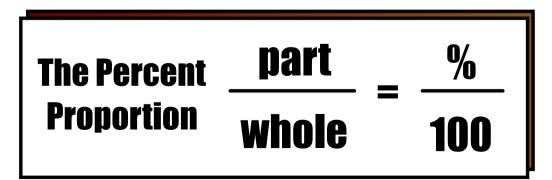
The word percent comes from the Latin phrase per centum, which means out of one hundred.

Percents are ratios that compare a number to 100.

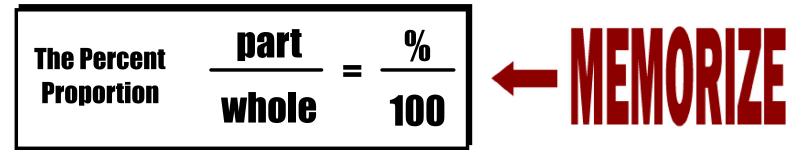
We can compare different quantities by first converting them to percentages.

THIS IS THE REALLY IMPORTANT PART

We can solve any percent problem by using the **PERCENT PROPORTION**.







How to use the Percent Proportion:

Insert numbers from the problem into the percent proportion, cross multiply, and solve.

- **100** ALWAYS goes in the bottom right of the proportion
- % place find the number that has a % sign after it
- <u>"whole" place</u> find the number that follows the word "OF"
- <u>"part" place</u> find the number that is left over - sometimes, though not always, near the word "IS"





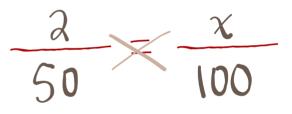
ex1) Find 40% of 50.



$$100 x = 2000$$

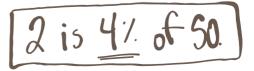
$$\chi = 20$$

ex2) 2 is what percent of 50?



$$50x = 200$$

 $\chi = 4$







ex3) 30 is 60% of what number?



$$60x = 3000$$

$$\chi = 50$$

ex4) Find 180% of 40.

