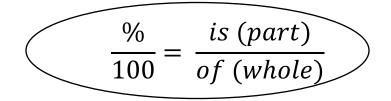
Name _____

_____ Per _____ Mrs. Doolan/Math6

"
$$\frac{is}{of}$$
" Percent Word Problems

Use and solve the following proportion to solve all Percent Word Problems:



Today's lesson is going to focus on the second half of this proportion:

When reading a word problem, the "part" is always shown with/attached to the word "is," and then whole is always shown with/attached to the word "of". To solve, use the same process we have been using on all our proportional word problems:

$$\frac{is = part}{of = whole}$$

Example #: <u>21 is</u> what percent of 63?

Step #1: Ask: are you solving for the part, the whole, or the percent? (The percent)

Step #2: Set up the proportion:

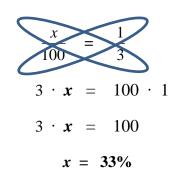
$$\frac{x}{100} = \frac{21}{63}$$

Step #3: Simplify if possible & draw your wings



Step #5: Multiply the solvable expression:

Step #6: Solve for the variable:



Example #2: 55% of 75 is what?

Step #1: Ask: are you solving for the part, the whole, or the percent? (The part)

Step #2: Set up the proportion:

Step #3: Simplify if possible & draw your wings:

Step #4: Write the cross product expressions:

Step #5: Multiply the solvable expression:

Step #6: Solve for the variable:

Example #3: <u>63 is</u> 45% of what?

Step #1: Ask: are you solving for the part, the whole, or the percent? (The whole)

Step #2: Set up the proportion:

Step #3: Simplify if possible & draw your wings:

Step #4: Write the cross product expressions:

Step #5: Multiply the solvable expression:

Step #6: Solve for the variable: