Name $\qquad$ Per $\qquad$ Mrs. Doolan/Math6
" $\frac{i s}{o f}$ " 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:

$$
\frac{i s=p a r t}{o f=\text { whole }}
$$

## Example \#: 21 is 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:

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

Step \#4: Write the cross product expressions:
Step \#5: Multiply the solvable expression:

$3 \cdot \boldsymbol{x}=100 \cdot 1$
$3 \cdot x=100$
Step \#6: Solve for the variable:

$$
x=33 \%
$$

## 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: 63 is $45 \%$ 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:

