Name: _____
Hour: _____

Notes: Solving Percent Problems

You can solve all kinds of percent problems if you do a little translating first.

"how much" = "x"
"is" = "equals"
"of" = "multiply"
"%" = "0.01"

Finding the Percent of a Number

Example 1: How much is 18% of 40?

x = (0.18) * (40)

x = (0.18)(40)
x = 7.2

Example 2: 90% of 20 is how much?

0.90 * 20 = x

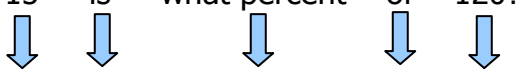
(0.90)(20) = x
18 = x

Finding the Percent (Don't forget "D2P" and change the answer to a %)

Example 3: What percent of 20 is 8?

x * 20 = 8

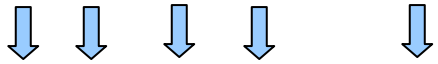
Example 4: 15 is what percent of 120?



15 = x * 120

Finding the Total Number

Example 5: 12 is 16% of what number?



12 = 0.16 * x

Example 6: 88% of what number is 4.4?

0.88 * x = 4.4

But Wait, There's Another Option!

You don't have to use "translations" to solve percent problems. You can solve percent problems by applying what you have learned about proportions. (Recall that a proportion is two ratios that are equivalent.) Make up a percent problem example (or choose one of the problems above) and explain how you would use proportions to solve it.