

TOPIC: SOLVING PERCENT PROBLEMS WITH EQUATIONS

Translating Percent Problems

◆ Recall: A **percent** is a part per 100 which can be written as a fraction (ratio) or decimal.

$$10\% = \frac{\quad}{100} =$$

► When solving problems with percents, *always* convert to _____ form.

New

Translate Percent Problems

"A number is 10% of 50"

Recall
 $is \rightarrow =$
 $of \rightarrow \cdot$

Partial = **Percent as decimal** $\cdot$ **Whole**

EXAMPLE

Translate & solve the percent problems below.

(A) 4 is 5% of what number?

(B) 35 is what percent of 28?



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PRACTICE

Translate & solve the percent problems below.

(**A**) 40% of what number is 68?

(**B**) 18 is what percent of 24?

EXAMPLE

Translate & solve the percent problem below.

(**A**) A number is 50% of 18

(**B**) A number is 18% of 50

(**C**) Why are part (**A**) and (**B**) related?

EXAMPLE

Caroline earns \$3452 a month. She pays \$1140 each month in rent. How much of her monthly paycheck goes towards rent?

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PRACTICE

Translate & solve the percent problems below.

(**A**) Saphia's lunch bill was \$17.65. She wants to leave an 18% tip. How much should the tip be?

(**B**) Carson bought some new sneaker on sale for \$250. The sale price was 65% of the original price. What was the original price?