October 29, 2018

Warm Up- Copy the following notes

How to find the percentage of a number:

1) Given the problem, **What is 30% of 27?**

Method #1 30% = 0.3

Multiply 27 by 0.3

= ?

What we know? OF = multiply

$$\frac{is}{of} = \frac{part}{whole \ 100}$$

What = unknown value

Fractions represent part/whole

IS is placed over OF

Whole is ALWAYS 100%

Method #2 So, we have the following equation:

is/of = part/whole

X (what) / 27 = 30/100

$$\frac{IS}{of} = \frac{part}{whole} \quad \%$$

What is
30% of
280?

^{2280}
$$\times\ .3$$
$$\overline{84.0}$$

Method 1

$$\frac{x}{280} \diagdown = \diagup \frac{30}{100}$$

^{228}
$$\times 3$$
$$\overline{8400}$$

$$\frac{100x}{100} = \frac{8400}{100} = \frac{84}{1}$$

$$x = 84$$

What is $\boxed{30\%}$ of 280?

$30\% = .3$

$$\begin{array}{r} \overset{2}{2}80 \\ \times \ .3 \\ \hline 8\ 4.0 \end{array}$$

$$\begin{array}{r} 280 \\ \times \ \ 3 \\ \hline 8400 \end{array}$$

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

$\dfrac{x}{280} = \dfrac{30}{100}$

$\dfrac{100x}{100} = \dfrac{8400}{100}$

$x = 84$

Make Foldable to use on Clue #2

What is 25% of 136?

Method 1:
Multiply 0.25 X 136

Method 2:
Using **is/of** method:
x/136 = 25/100

What is $\left(150\%\right)$ of ? 128

If no relationship is found horizontally or vertically, then use cross-products

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

$$\frac{x}{128} = \frac{150}{100}$$

Multiplying by 1/2 is the same thing as dividing by 2.

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Period 5

Warm Up - Video on finding Unit Rates

Math Mystery - Read front page.
Answer the problems under Clue 1 to get your first clue
by finding the Unit Rates.
Go back to the frint page and cross off any suspects that
you can eliminate.