

Percent

Learning Goal:

By the end of today, I will be able to solve **percentage** type problems using

(i) a multiplication strategy

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Percent

Percent is a combination of two root words, "per" and "cent". "Cent" is french for one hundred, so percent means "per one hundred".

The symbol for percent is the % sign, which looks like a rearranged 100.

Fifty percent can be written as 50% or as $\frac{50}{100}$

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To solve percent problems, one method is to translate the sentence into an equation:

"60% of 200 is" can be setup as follows.

$$\frac{60}{100} \times 200 =$$

or

$$0.60 \times 200 =$$

where the 60% can be expressed as a fraction or decimal value, "of" is the operation of multiplying, and "is" represents the "equal" sign

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Solve the following

75% of 160 is?

Word Equation

$$\frac{75}{100} \times 160 =$$

or

$$0.75 \times 160 =$$

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Solve the following

5% of 46 is?

Word Equation

$$\frac{5}{100} \times 46 =$$

or

$$0.05 \times 46 =$$

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What percent is 45 out of 90?

$$\frac{?}{100} = \frac{45}{90}$$

Match the words to the equation.

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Percent to Decimal Conversions

Percent	Fraction (out of 100 & lowest terms)	Decimal
120% _____		_____
100% _____		_____
84% _____	$\frac{84}{100} = \frac{42}{50} = \frac{21}{25}$	_____ 0.84
50% _____		_____
30% _____		_____
12% _____		_____
3% _____		_____
1.5% _____		_____

To turn a percent to a decimal, divide by 100

To turn a decimal into a percent, multiply by 100.

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Task - Percentage

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Attachments

Math - quiz - ratio_eqn.doc