

Algebra 1 9/21

Warm Up IXL
5th Grade
0.6

0-6 The Percent Proportion

I can use and apply the percent proportion

Percent

is a ratio that compares a number to 100. Literally means per 100.

Percent Proportion

The ratio of a part of something to the whole (base) is equal to the percent written as a fraction

$$\frac{\text{is}}{\text{of}} = \frac{\text{percent}}{100}$$

I can use and apply the percent proportion

Ex. 1 Express each percent as a fraction or mixed number

A. 79%

$$\frac{79}{100}$$

B. 107%

$$\frac{107}{100}$$

C. 0.5%

$$\frac{0.5 \times 10}{100 \times 10} = \frac{5}{1000} = \frac{1}{200}$$

I can use and apply the percent proportion

Ex. 2 40% of 30 is what number?

$$\frac{15}{\text{of}} = \frac{\%}{100}$$
$$\frac{X}{30} \rightarrow \frac{40}{100}$$
$$\frac{100X}{100} = \frac{1200}{100}$$

$$X = 12$$

40% → Decimal

$$40\% = 0.4$$

$$0.4 \cdot 30 = 12$$

I can use and apply the percent proportion

Ex. 3 Kelsey took a survey of students in her lunch period. 42 out of the 70 students Kelsey surveyed said their family had a pet. What percent of students had pets?

42 out of 70

$$\frac{42}{70} = 0.60$$

60%
60% of the students surveyed had pets.

I can use and apply the percent proportion

Ex. 4 67.5 is 75% of what number?

$$\frac{IS}{of} = \frac{\%}{100}$$

$$\frac{67.5}{X} = \frac{75}{100}$$

$$\frac{75X}{75} = \frac{6750}{75}$$

$$X = 90$$

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Alg 1
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Pg P21 #2-22ev

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Hmwk

Pg P21

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