

1/28/20

Be able to solve percent problems
using the percent equation.

Warm Up

Survey of 40 Students

Do homework right after school 25% = 10

Do homework before going to bed 10% = 4

Do homework at school 40% = 16

Don't do homework 15% = 6

Other 10% = 4

How many students in each category?

$$\frac{x}{40} = \frac{25}{100}$$

$$x = 10$$

$$\frac{x}{40} = \frac{10}{100}$$

$$x = 4$$

40

Percent Equation

part = percent • whole

is = percent • of

decimal form

What is 32% of 75?

Proportion

$$\frac{x}{75} = \frac{32}{100}$$

Equation

$$x = .32(75)$$

$$x = 24$$

36 is 25% of what number?

Proportion

$$\frac{36}{x} = \frac{25}{100}$$

Equation

$$\frac{36}{.25} = \frac{.25x}{.25}$$

$$144 = x$$

What percent of 60 is 90?

Proportion

$$\frac{90}{60} = \frac{x}{100}$$

Equation

$$90 = x(60)$$

$$\frac{90}{60} = \frac{60x}{60}$$

$$1.5 = x$$

$$150\%$$

decimal form

percent form



