

11/13/18

Be able to calculate percent of change.

Class starts out with 27 students and goes up to 34 students. What is the percent of change?

$$34 - 27 = 7 \text{ students}$$

Increase

Seven is what percentage of 27?

$$\frac{7}{27} = \frac{x}{100}$$

$$7 = 27x$$

$$x = .259$$

25.9% Increase

Class starts with 34 and goes down to 27. What is the percent of change?

Seven is what percent of 34?

$$\frac{7}{34} = \frac{x}{100}$$

$$7 = 34x$$

$$x = 20.5\% \downarrow \text{Decrease}$$

Percent of Change Formula

$$\text{Percent of Change} = \frac{\text{Change}}{\text{Original}}$$

decimal form

absolute value

45 to 60
increase $33\frac{1}{3}\%$

$$\frac{x}{45} = \frac{33.\bar{3}}{100}$$

$$.3\bar{3} = \frac{x}{45}$$

$x = 15$ ← change