

2-10 Reteaching

Change Expressed as a Percent

A percent change occurs when the original amount changes and the change is expressed as a percent of the original amount. There are two possibilities for percent change: percent increase or percent decrease. The following formula can be used to find percents of increase/decrease.

$$\text{percent change} = \frac{\text{amount of increase or decrease}}{\text{original amount}}$$

Problem

In its first year, membership of the community involvement club was 32 members. The second and third years there were 28 members and 35 members respectively. Determine the percent change in membership each year.

From the first to the second year, the membership went down from 32 to 28 members, representing a percent decrease. The amount of decrease can be found by subtracting the new amount from the original amount.

$$\begin{aligned} \text{percent change} &= \frac{\text{original amount} - \text{new amount}}{\text{original amount}} \\ &= \frac{32 - 28}{32} \\ &= \frac{4}{32} = 0.125 \end{aligned}$$

Percent Change Formula for percent decrease.

Substitute 32 for the original number and 28 for the new number.

Subtract. Then divide.

Membership decreased by 12.5% from the first year to the second year.

From the second to the third year, the membership increased from 28 to 35 members, representing a percent increase. The amount of increase can be found by subtracting the original amount from the new amount.

$$\begin{aligned} \text{percent change} &= \frac{\text{original amount} - \text{new amount}}{\text{original amount}} \\ &= \frac{32 - 28}{32} \\ &= \frac{7}{32} = 0.22 \end{aligned}$$

Percent Change Formula for percent increase.

Substitute 28 for the original number and 35 for the new number.

Subtract. Then divide.

Membership increased by about 22% from the second year to the third year.

Exercises

Tell whether each percent change is an increase or decrease. Then find the percent change. Round to the nearest percent.

1. Original amount: 25
New amount: 45

increase 80%

2. Original amount: 17
New amount: 10

Decrease 41%

3. Original amount: 22
New amount: 21

Decrease 5%

Reteaching With Practise Lesson 10 1 Answer

Rosina Ehmann



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