Percent of Change

By

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(Samdom For Peace)

Objectives

At the end of this chapter, students will:

- **To find percent of increase**
- **To find percent of decrease**

Vocabulary Words

- Percent
- Change
- Increase
- Decrease
- Percent of change
- Percent of increase
- Percent of decrease

Definitions

- Percent is defined as a part (or one part) in a hundred

- Change is causing something to be different. As regards this topic, it is seen as an increase or decrease in the value of a variable or constant. For example,

  If I have $1 today and $2 tomorrow,
- Is there a change?
- Yes
- What kind of change?
- An increase

If I have $2 today and a $1 tomorrow,

Is there a change?

Yes

What kind of change?

A decrease

If I have $1 today and $1 tomorrow,

Is there a change? No

An increase will occur when the new value is greater than the original value.

Likewise, a decrease will occur when the new value is less than the original value.

- Amount of increase = new value-old value
- Amount of decrease = old value – new value

For example,

Find the amount of increase from 5 to 8

old value = 5, new value = 8

Amt. of increase = 8 – 5= 3

Find the amount of decease from 8 to 5

old value = 8, new value = 5

Amt. of decrease = 8 – 5 = 3

Note this!

- There could be an increase or decrease but the value of that change (increase or decrease) is NOT negative
- % increase = $\frac{\text{amount of increase}}{\text{original amount}} * 100$
- % decrease = $\frac{\text{amount of decrease}}{\text{original amount}} * 100$
- % increase or decrease is NOT negative
- Ask your questions

Can we solve some Math?

- Tosky went to gamble with $75 and came back with $45.
- Was there a change?
- What type of change?
- Find the % of change

- Original amount = $75 ; new amount = $45
- Change = $75 - $45= $30 (Remember change can either be an increase or decrease but cannot be negative)
- In this case, the change is a/an
- Decrease. Good. Can you tell me why?
- % decrease = $\frac{30}{75} * 100 = 40\%$

- Tosky went to gamble with $45 and came back with $75.
- Was there a change?
- What type of change?
- Find the % of change

- Original amount = $45 ; new amount = $75
- Change = $75 - $45= $30 (Remember change can either be an increase or decrease but cannot be negative)
- In this case, the change is a/an
- Increase. Good. Can you tell me why?
- % increase = $\frac{30}{45} * 100 = 66.7\%$

- Alright Sweethearts and young gentlemen, ask Samdom your questions?
- Do not be shy
- Remember to write your notes
- Do your homework
- Solve more math
- Be good