

Question:

Ali buys an oven for Rs 36800 and sell it at a gain of 8.5%. For how much does he sell it?

Solution:

Ali bought oven for = Rs 36800

Sold it for gain = 8.5%

$$\begin{aligned} \text{Amount he gained} &= \frac{8.5}{100} \times 36800 \\ &= \frac{8517}{1000} \times \frac{184}{36800} \end{aligned}$$

$$= 3128$$

For amount he sold oven

$$= 36800 + 3128$$

$$= 39928$$

Question:

The income of a company decreased by 10% and 15% in two consecutive years. What is the percentage of decrease in income after two years?

Solution:

$$\begin{aligned} \text{Percentage change in income of company} \\ &= 10\% + 15\% = 25\% \end{aligned}$$

Change in income of company for

$$\begin{aligned} \text{first year} &= \frac{5\%}{10\%} \times 100 \\ &= \frac{5}{10} \times \frac{100}{10} \times 100 \\ &= 50\% \end{aligned}$$

So there is 50% decrease in income after two years.

Question:

During a sale a clerk was putting new price tags on each item. On one sweater, he accidentally raised the price by 20% instead of lowering by 20%. As a result the price on the tag was Rs 80 too high. What was the original price of the sweater?

Solution:

To find original price of sweater.

$$\begin{aligned} \text{Including increased price} \\ &= \frac{20}{100} \times 80 \end{aligned}$$

$$= 16$$

Now

$$80 - 16 = 80 - 16 = 64$$

Sol. Original price of sweater is

$$= \text{RS } 54$$

Question:

Mr. Faheem has dinner with his family at a restaurant which offers 10% discount on food. The marked price of the food that they order was Rs 1500. Given that there was a service charges of 10% and GST is 17%. Calculate the total amount of money has to pay.

Solution:

$$\text{Price of the food ordered} = 15000$$

$$\begin{aligned} \text{Calculating service charges} &= \frac{10}{100} \times 15000 \\ &= 1500 \end{aligned}$$

$$\begin{aligned} \text{Calculating GST} &= \frac{17}{100} \times 15000 \\ &= 2550 \end{aligned}$$

$$\begin{aligned} \text{Calculating discount on food} &= \frac{10}{100} \times 15000 \\ &= 1500 \end{aligned}$$

$$\begin{aligned} \text{The amount of food to be paid} &= 15000 - 1500 \\ &= 13500 \end{aligned}$$

Total amount of money to be paid

$$= 13500 + 1500 + 2550$$

$$= 17550$$