

Percentage

Question 1:- Nadeem Spends 30% of monthly income on food Articles, 40% of the remaining on Conveyance & clothes and Saves 50% of remaining, If his monthly Salary is Rs. 18400, how much money does he save every month?

Solution:-

$$\text{Monthly Income} = \text{Rs. } 18400$$

$$\begin{aligned} \text{Spent on food Articles} &= 30\% = \frac{30}{100} \times 18400 \\ &= \text{Rs. } 5520 \end{aligned}$$

$$\text{Remaining} = 18400 - 5520 \Rightarrow \text{Rs. } 12880$$

$$\begin{aligned} \text{Spent on Conveyance \& clothes} &= \frac{40}{100} \times 12880 \\ &= \text{Rs. } 5152 \end{aligned}$$

$$\text{Remaining} = 12880 - 5152 \Rightarrow \text{Rs. } 7728$$

$$\begin{aligned} \text{Savings} &= \frac{50}{100} \times 7728 \\ &= \text{Rs. } 3864 \end{aligned}$$

→ So, every month he saves Rs. 3864.

Question 2:- Murad bought his house for Rs. 300,000 & sold it for Rs. 600,000. What was the percentage increase?

Solution:-

$$\therefore \text{Percentage Increase} = \frac{\text{Actual Increase}}{\text{Original Value}} \times 100\%$$

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$$\begin{aligned} \text{Actual Increase} &= 600,000 - 300,000 \\ &= \text{Rs. } 300,000 \end{aligned}$$

$$\text{percentage Increase} = \frac{300,000}{300,000} \times 100\%$$

$$\text{Percentage Increase} = 100\%$$

Question no. 3:- Seemab buys 5kg of tea at Rs. 125.00 per kg. In addition, for every kilogram of tea purchased, she has to pay a sales tax of 6% on the selling price. Calculate the total amount of money that she had to pay.

Solution:-

$$1 \text{ kg of tea} = \text{Rs. } 125.00$$

$$\text{Hence, } 5 \text{ kg of tea} = 125 \times 5 = \text{Rs. } 625$$

$$\text{Sales tax on selling price} = 6\%$$

$$\begin{aligned} \text{So,} &= \frac{6}{100} \times 625 \\ &= \frac{6 \times 625}{100} \\ &= \frac{3750}{100} \\ &= 37.5 \end{aligned}$$

$$\text{Sales tax} = \text{Rs. } 37.5$$

$$\begin{aligned} \text{Total Amount of money} &= 625 + 37.5 \\ \text{She had to pay} &= \text{Rs. } 662.5 \end{aligned}$$

Question no. 4:- Mr. Rehman ordered a car worth Rs. 900,000 and was

given a discount. Given that he paid Rs. 855,000 for his new car. What percentage discount he received?

Solution:-

$$\begin{aligned} \therefore \text{Discount} &= \text{List price} - \text{Sale price} \\ &= 900,000 - 855,000 \end{aligned}$$

$$\text{Discount} = \text{Rs. } 45,000$$

$$\text{Percentage Discount} = ?$$

$$\begin{aligned} \therefore \text{Percentage Discount} &= \frac{\text{Discount}}{\text{List price}} \\ &= \frac{45,000}{900,000} \times 100 \end{aligned}$$

$$\text{Hence, Percentage Discount} = 0.05\%$$

Question no. 5:- A manufacturer gives 10% Commission on the written price to a Shopkeeper. What does the shopkeeper pay in cash for an article with written price as Rs. 1500?

Solution:-

$$\text{Commission} = 10\%$$

$$\text{Article price} = \text{Rs. } 1500$$

$$\begin{aligned} \text{So, } 10\% \text{ Commission is equal to} &= \frac{10}{100} \times 1500 \\ &= \text{Rs. } 150 \end{aligned}$$

$$\begin{aligned} \text{Amount that Shopkeeper} \\ \text{will Pay} &= 1500 - 150 \\ &= \text{Rs. } 1350 \end{aligned}$$

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Question no. 6:- Aslam Sold Cotton of Abbas worth Rs. 1000,000. He deducted 5% Commission. What did Aslam get?

Solution:-

$$5\% \text{ of } 1000,000 = \frac{5}{100} \times 1000,000 \\ = 50,000$$

Commission of Aslam = Rs. 50,000

$$\text{Amount Aslam } \cancel{\text{will}} \text{ get} = 1000,000 - 50,000 \\ = \text{Rs. } 950,000$$

Question no. 7:- Ali is a salesman in a shop. His salary is Rs. 7000 per month plus a commission @ 3% on the price of sold goods. He sold goods worth Rs. 50,000 in a month. Find his total income for that month?

Solution:-

$$\text{Commission on sold goods} = \frac{3}{100} \times 50,000 \\ \text{Commission} = \text{Rs. } 1500$$

$$\therefore \text{Total Income} = \text{Salary} + \text{Commission} \\ = 1500 + 7000$$

$$\text{Total Income} = \text{Rs. } 8500$$

Question no. 8:- A newspaper agent sold newspapers for Rs. 10800 in a month and

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got a total Commission of Rs. 1620. Find the percentage of his Commission?

Solution:-

Percentage of Commission = ?

$$\text{Percentage of Commission} = \frac{\text{Commission \%}}{\text{total value}}$$

$$= \frac{1620}{10800} \%$$

$$\text{Percentage of Commission} = 0.15\%$$

Question no. 9:- A Commission agent sold a house for Rs. 5,00,000 and charged a commission of ^{at} 2% from both Seller and the buyer. What did the Seller get? What did the buyer pay? What did the agent get?

Solution:-

$$\begin{aligned} \text{Commission Charged} &= \frac{2}{100} \times 500,000 \\ &= \text{Rs. } 10,000 \end{aligned}$$

$$\begin{aligned} \text{Amount buyer payed} &= 500,000 + 10,000 \\ &= \text{Rs. } 510,000 \end{aligned}$$

$$\begin{aligned} \text{Amount Seller got} &= 500,000 - 10,000 \\ &= \text{Rs. } 490,000 \end{aligned}$$

$$\begin{aligned} \text{Amount agent got} &= 10,000 + 10,000 \\ &= \text{Rs. } 20,000. \end{aligned}$$