



SHIKSHA CLASSES

Sub. : Maths

Answer Paper

Marks : 20

Std. : VIIIth - S.B.

9. Discount and Commission

Q.1 : A) Select the most appropriate Alternative. 02

1) On which price the discount on an article offered ?

Ans : b) Printed price

2) A shopkeeper sold a TV set for ₹ 11,500 after allowing 8% discount. What is the marked price of TV set ?

Ans : b) ₹ 12,500

: B) Solve the following. 01

1) Find the value of 92% of 600.

Ans : 92% of 600

$$= \frac{92}{100} \times 600$$

$$= 92 \times 6$$

$$= 552$$

It is required answer.

Q.2 : A) Solve any one of the following. (Activity) 02

1) John sold books worth rupees 4500 for a publisher. For this he received 15 % commission. Complete the following activity to find the total commission John obtained.

Selling price of books = ₹ 4500, Rate of commission = 15%

$$\text{Commission obtained} = \frac{15}{100} \times 4500$$

$$\text{Commission} = ₹ 675$$

2) Use the given information and fill in the boxes with suitable numbers. Smt. Deepanjali purchased a house for ₹ 7,50,000 from Smt. Leelaben through an agent. Agent has charged 2 % brokerage from both of them.

Ans : 1) Smt. Deepanjali paid

$$₹ 750000 \times \frac{2}{100} = ₹ 15000$$

brokerage for purchasing the house.

2) Smt. Leelaben paid brokerage of

$$₹ 15000$$

3) Total brokerage received by the agent is

$$₹ 30000$$

4) The cost of house Smt. Deepanjali paid

$$\text{is } ₹ 765000$$

5) The selling price of house for Smt.

$$\text{Leelaben is } ₹ 735000$$

Explanation:

2) Brokerage is the same from both.

4) The cost of house = purchase price + brokerage

5) The selling price of house = price of house – brokerae

: B) Solve any one of the following. 02

1) If marked price = ₹ 990 and percentage of discount is 10, then find the selling price.

Ans : M.P. = ₹ 990; Discount = 10%; S.P. = ?

Let the discount given be ₹ x.

$$\frac{\text{Discount}\%}{100} = \frac{\text{Discount Given}}{\text{M.P.}}$$

$$\therefore \frac{10}{100} = \frac{x}{990}$$

$$\therefore x = \frac{10 \times 990}{100}$$

$$\therefore x = ₹ 99$$

S.P. = M.P. – Discount

$$= ₹ (990 - 99) = ₹ 891$$

\therefore The selling price is ₹ 891.

- 2) A farmer sold foodgrains for 9200 rupees through an agent. The rate of commission was 2%. How much amount did the agent get?

Ans : Selling price of foodgrains = ₹ 9200;

Commission = 2%

commission = percentage commission \times selling price

$$= \frac{2}{100} \times 9200 = ₹ 184$$

\therefore The agent got ₹ 184 as commission.

Q.3 : A) Solve any one of the following. (Activity) 03

- 1) After offering a discount of 10% on marked price, a customer gets total discount of ₹ 17. To find the cost price for the customer, fill in the following boxes with appropriate numbers and complete the activity.

Ans : Suppose, marked price of the item = 100 rupees

Therefore, for customer that item costs

$$₹100 - ₹10 = ₹90$$

Hence, when the discount is ₹10 then the

selling price is ₹90.

Suppose when the discount is

₹17 rupees, the selling price is x rupees.

$$\therefore \frac{x}{90} = \frac{17}{10}$$

$$x = \frac{17 \times 90}{10} = 153$$

\therefore The customer will get the item for 153 rupees.

- 2) A shirt was sold for ₹ 425 after allowing 15% discount on marked price. Find the marked price of the shirt. Complete the activity by filling the boxes with suitable numbers.

Ans : S.P. of the shirt = ₹ 425

Rate of discount = 15%

Let the M.P. of the shirt be ₹ 100.

$$\therefore \text{discount} = ₹ 15$$

S.P. = M.P. – Discount

$$= ₹ 100 - 15 = ₹ 85$$

When S.P. is ₹ 85, M.P. is ₹ 100.

When S.P. is ₹ 425 M.P. is x.

$$\therefore \frac{85}{425} = \frac{100}{x}$$

$$\therefore x = 500$$

\therefore The marked price of the shirt is ₹ 500.

B) Solve any one of the following. 03

- 1) Umatai purchased following items from a Khadi - Bhandar.

i) 3 sarees for 560 rupees each.

ii) 6 bottles of honey for 90 rupees each.

On the purchase, she received a rebate of 12%. How much total amount did Umatai pay ?

Ans : i) The cost of 3 sarees = $3 \times 560 = ₹ 1680$.

ii) The cost of 6 bottles of honey
= 6×90
= ₹ 540.

The total cost = ₹ (1680 + 540)

... [From (i) and (ii)]

= ₹ 2220

Rebate = cost \times rate of rebate

$$= ₹ 2220 \times \frac{12}{100} = ₹ 266.40$$

Amount paid = total cost - rebate

$$= ₹ (2220 - 266.40)$$

$$= ₹ 1953.60$$

Thus, Umatai paid ₹ 1953.60

- 2) **Rajabhau sold his flat to Vasanttrao for ₹ 88,00,000 through an agent. The agent charged 2 % commission for both of them. Find how much commission the agent got.**

Ans : The price of the flat = ₹ 88,00,000.

The rate of commission = 2%

Commission = Price \times rate of commission

$$= 8800000 \times \frac{2}{100}$$

$$= 176000$$

Commission ₹ 1,76,000 from each

\therefore total commission = ₹ 176000 \times 2

$$= ₹ 352000$$

\therefore The agent got ₹ 3,52,000 as commission.

Q.4 : Solve any one of the following. 04

- 1) **A shopkeeper offers his customers 10% discount and still makes a profit to 26%. What is the actual cost to him of an article marked Rs. 280 ?**

Ans : We have,

Marked price = ₹ 280, Discount = 10%

$$\therefore \text{S.P.} = \text{M.P.} \times \left(\frac{100 - \text{Discount}\%}{100} \right)$$

$$\therefore \text{S.P.} = ₹ \left\{ 280 \times \left(\frac{100 - 10}{100} \right) \right\}$$

$$= ₹ \left\{ \frac{280 \times 90}{100} \right\}$$

$$= ₹ 252$$

Now, S.P. = ₹ 252 and Gain = 26%

$$\therefore \text{C.P.} = \frac{100}{100 + \text{gain}\%} \times \text{S.P.}$$

$$= ₹ \left(\frac{100}{100 + 26} \right) \times 252$$

$$= ₹ \frac{100}{126} \times 252$$

$$= ₹ 200$$

Hence, the actual cost of two article is ₹ 200.

- 2) **A cycle merchant allows 25% commission on his advertised price and still makes a profit of 20%. If he gains ₹ 60 over the sale of one cycle. Find his advertised price.**

Ans : Let the advertised price be ₹ 100

commission on advertised price = 25%

$$= ₹ 25$$

\therefore S.P. = Advertised price - commission

$$= ₹ 100 - ₹ 25$$

$$= ₹ 75$$

We have profit = 20%

$$\therefore \text{C.P.} = \frac{100}{100 + \text{Gain}\%} \times \text{S.P.}$$

$$\text{CP} = \frac{100}{100 + 20} \times 75$$

$$\text{C.P.} = ₹ \left(\frac{100}{120} \times 75 \right)$$

$$= ₹ 62.5$$

$$\therefore \text{Gain} = \text{S.P.} - \text{C.P.} = ₹ 75 - ₹ 62.5$$

$$= ₹ 12.5$$

Now, If the gain is ₹ 12.5, advertised Price = ₹ 100.

If the gain is ₹ 1. advertised price = ₹ $\frac{100}{12.5}$

If the gain is ₹ 60, advertised price

$$= ₹ \frac{100}{12.5} \times 60$$

$$= ₹ 480.$$

Q.5 : Solve any one of the following. 03

1) If the cost price of 18 mangoes is the same as the selling price of 16 mangoes. Find the gain percent.

Ans : Let the cost price of each mango be ₹ 1.

Then,

C.P. of 16 mangoes = ₹ 16

S.P. of 16 mangoes = ₹ 18

∴ Gain = S.P. - C.P. = ₹(18 - 16) = ₹ 2

$$\text{Now Gain \%} = \left(\frac{\text{Gain}}{\text{C.P.}} \times 100 \right) \%$$

$$= \left(\frac{2}{16} \times 100 \right) \%$$

$$= 12.5\%$$

Hence, gain% = 12.5%

2) The marked price of a T. V. Set is ₹ 50000. The shop keeper sold it at 15% discount. Find the price of it for the customer

Ans : M.P. = ₹ 50,000.

discount = 15%; S.P. = ?

Discount = M.P. × Percentage of discount

$$= 50000 \times \frac{15}{100} = 75000$$

Discount = ₹ 7500

S.P. = M.P. - Disount

$$= ₹ (50000 - 7500) = ₹ 42500$$

∴ The price of a TV set for the customer is ₹ 42500.

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