TEXT BOOK EXERCISE 7.2

Q. 1. An article marked at ₹ 1920 is sold for ₹ 1840, what is discount and discount percentage ?

Solution. Marked Price of an article
= ₹ 1920

Selling Price of an article = ₹ 1840

Discount = Marked Price – Selling Price
= ₹ 1920 – ₹ 1840
= ₹ 80 **Ans.**

$$\text{Discount \%} = \frac{\text{Discount}}{\text{Marked Price}} \times 100$$

$$= \frac{80}{1920} \times 100 = \frac{125}{3}$$

$$= 41\frac{2}{3}$$

Hence, Discount Percentage = $41\frac{2}{3}\%$ **Ans.**

Q. 2. A book marked at ₹ 791 is sold for ₹ 678. Find discount and discount percent.

Solution. Marked Price of the book = ₹ 791

Selling Price of the book = ₹ 650

Discount = Marked Price – Selling Price
= ₹ 791 – ₹ 678 = ₹ 113

$$\text{Discount \%} = \frac{\text{Discount}}{\text{Marked Price}} \times 100$$

$$= \frac{113}{791} \times 100 = \frac{100}{7}\%$$

Discount Percentage = 14.29%. **Ans.**

Q. 3. The list price (M.P.) of bag is ₹ 220. A discount of 15% is announced on sale. What is its sale price ?

Solution. Marked Price of bag = ₹ 220

Discount = 15% of 220

$$= ₹\ \frac{15}{100} \times 220 = ₹\ 33$$ **Ans**

Hence, Sale Price of bag
= ₹ 220 – ₹ 33
= ₹ 187 **Ans.**

Q. 4. The marked price of a ceiling fan is ₹ 720. During off season it is sold for ₹ 684. Determine the discount percentage.

Solution. Marked Price of ceiling fan
= ₹ 720

Selling Price of ceiling fan = ₹ 684

Discount = Marked Price – Selling Price
= ₹ 720 – ₹ 684 = ₹ 36

$$\text{Discount \%} = \frac{\text{Discount}}{\text{Marked Price}} \times 100$$

$$= \frac{36}{720} \times 100 = 5$$

Hence, Discount percentage = 5% **Ans.**

Q. 5. A shop offers 4% discount on all cash purchases. What cash amount do we need to pay for an item whose marked price is ₹ 650 ?

Solution. Marked Price = ₹ 650

Discount = 4% of ₹ 650

$$= ₹\ \frac{4}{100} \times 650 = ₹\ 26$$

Hence, Cash amount we need to pay
= ₹ 650 – ₹ 26
= ₹ 624 **Ans.**

Q. 6. A saree is sold for ₹ 720 after giving a 20% discount on Marked Price. What is the Marked Price ?

Solution. Let Marked Price of saree = ₹ x

Discount = 20% of M.P. = 20% of x

$$= \frac{20}{100} \times x = ₹ \frac{x}{5}$$

Selling Price = Marked Price – Discount

$$\therefore \text{Selling Price} = x - \frac{x}{5} = \frac{5x - x}{5} = \frac{4x}{5}$$

As per question,

$$\frac{4x}{5} = 720$$

$$\Rightarrow \quad x = \frac{720 \times 5}{4} = 900$$

Hence, Marked Price of saree = ₹ 900 **Ans.**

Q. 7. If Ankush is getting discount of 8% on an item with marked price of ₹ 400. Find the discount and cost price of item for Ankush.

Solution. Marked Price = ₹ 400

Discount = 8% of ₹ 400

$$= ₹ \frac{8}{100} \times 400 = ₹ 32$$ **Ans.**

Hence, Cost Price for Ankush = M.P. – Discount

= ₹ 400 – ₹ 32

= ₹ 368 **Ans.**

Q. 8. Rachna is getting discount of 10%, 15% and 20% on 3 books each with marked price ₹ 100. Find total amount Rachna has to pay.

Solution. Discount on first book

= 10% of ₹ 100

$$= ₹ \frac{10}{100} \times 100 = ₹ 10$$

Discount on second book

= 15% of ₹ 100

$$= ₹ \frac{15}{100} \times 100 = ₹ 15$$

Discount on third book

= 20% of ₹ 100

$$= ₹ \frac{20}{100} \times 100 = ₹ 20$$

Total discount on three books

= ₹ 10 + ₹ 15 + ₹ 20 = ₹ 45

Total Marked Price

= 3 × ₹ 100 = ₹ 300

Hence, Total amount Rachna has to pay

= Marked Price – Discount

= ₹ 300 – ₹ 45

= ₹ 255 **Ans.**

Q. 9. Multiple Choice Questions :

(*i*) Discount is calculated on :

(*a*) S.P. (*b*) M.P.

(*c*) C.P. (*d*) None of these.

(*ii*) Discount percent is equal to :

(*a*) $\frac{\text{Discount}}{\text{M.P.}} \times 100$

(*b*) $\frac{\text{Discount}}{\text{S.P.}} \times 100$

(*c*) S.P. – M.P.

(*d*) M.P. – C.P.

(*iii*) A table marked at ₹ 15000 is available for ₹ 14400. The discount percent is :

(*a*) 2% (*b*) 4%

(*c*) 5% (*d*) 7%.

(*iv*) A book marked at ₹ 900 is sold for ₹ 873. The discount is :

(*a*) 72 (*b*) 27

(*c*) 29 (*d*) 24.

(*v*) A Chair is sold at 4% discount and marked price of chair is ₹ 450. What is selling price of chair ?

(*a*) ₹ 412 (*b*) ₹ 425

(*c*) ₹ 432 (*d*) ₹ 440.

Ans. (*i*) (*b*) M.P. (*ii*) (*a*) $\frac{\text{Discount}}{\text{M.P.}} \times 100$

(*iii*) (*b*) 4% (*iv*) (*b*) 27 (*v*) (*c*) ₹ 432.