



Exercise 10B

Q1.

Answer :

Marked price = Rs 4650 and discount = 18%

Discount = 18% of marked price

$$= 18\% \text{ of Rs } 4650$$

$$= \text{Rs } \left(4650 \times \frac{18}{100} \right) = \text{Rs } 837$$

Selling price = marked price - discount

$$= \text{Rs } (4650 - 837) = \text{Rs } 3813$$

Therefore, the selling price of the cooler is Rs 3813.

Q2.

Answer :

Marked Price = Rs 960

Selling Price = Rs 816

Discount = MP - SP

$$= \text{Rs } (960 - 816)$$

$$= \text{Rs } 144$$

$$\text{Rate of discount} = 144 \times \frac{100}{960} = 15\%$$

Therefore, the discount on the sweater is 15%.

Q3.

Answer :

Selling price = **Rs 546**

Discount = **Rs 104**

Marked Price = ?

Marked Price = selling price + discount

$$= \text{Rs } (546 + 104)$$

$$= \text{Rs } 650$$

$$\begin{aligned} \text{Rate of discount} &= 104 \times \frac{100}{650} \\ &= 16\% \end{aligned}$$

Therefore, the rate of discount given on the shirt is 16%.

Q4.

Answer :

Selling Price = Rs 216.20

Rate of discount = 8%

Marked Price = ?

SP = MP – discount

Let the MP be Rs x .

$$\text{Now, } x - \frac{8}{100} \times x = 216.20$$

$$\Rightarrow \frac{92x}{100} = 216.20$$

$$\Rightarrow 92x = 21620$$

$$\Rightarrow x = \frac{21620}{92}$$

$$\Rightarrow x = 235$$

\therefore Marked price = **Rs 235**

Q5.

Answer :

Cost price = Rs 528

Rate of discount = 12%

Marked price = ?

SP = MP – discount

Let the MP be Rs x .

$$\text{Now, } \frac{x-12}{100 \times x} = 528$$

$$\Rightarrow \frac{88x}{100} = 528$$

$$\Rightarrow 88x = 52800$$

$$\Rightarrow x = \frac{52800}{88}$$

$$\Rightarrow x = \text{Rs } 600$$

Therefore, the marked price of tea set is Rs 600.

Q6.

Answer :

Let Rs 100 be the CP.

Then, marked price = **Rs 135**

Discount = 20% of MP

$$= \frac{20}{100} \times 135$$

$$= 27$$

Selling price = marked price – discount

$$= 135 - 27$$

$$= \text{Rs } 108$$

$$\begin{aligned}
 &= \text{Rs } 100 \\
 \text{Now, gain} &= \text{SP} - \text{CP} \\
 &= 108 - 100 \\
 &= \text{Rs } 8
 \end{aligned}$$

$$\begin{aligned}
 \therefore \text{Gain percentage} &= \frac{\text{gain}}{\text{CP}} \times 100 \\
 &= \frac{8}{100} \times 100 \\
 &= 8\%
 \end{aligned}$$

Q7.

Answer :

Let Rs 100 be the CP.

Then, marked price = **Rs 140**

Discount = 30% of MP

$$\begin{aligned}
 &= \frac{30}{100} \times 140 \\
 &= 42
 \end{aligned}$$

Selling Price = marked price – discount

$$= 140 - 42$$

$$= \text{Rs } 98$$

Now, loss = CP – SP

$$= 100 - 98$$

$$= \text{Rs } 2$$

$$\begin{aligned}
 \therefore \text{Loss percentage} &= \frac{\text{Loss} \times 100}{\text{CP}} \\
 &= \frac{2 \times 100}{100} \\
 &= 2\%
 \end{aligned}$$

Therefore, the shopkeeper had a loss of 2%.

Q8.

Answer :

Cost price of the fan = **Rs 1080**

Gain percentage = 25%

$$\therefore \text{Selling price} = \left\{ \frac{(100 + \text{gain \%})}{100} \times \text{CP} \right\}$$

$$\begin{aligned}
 &= \left\{ \frac{100+25}{100} \times 1080 \right\} \\
 &= \frac{125}{100} \times 1080 \\
 &= \text{Rs } 1350
 \end{aligned}$$

Let the marked price be Rs x .

Discount = 25% of **Rs x**

$$= \frac{25x}{100}$$

SP = MP - discount

$$\Rightarrow 1350 = X - \frac{25X}{100}$$

***** END *****