Exercise 10B

Q1.

Answer:

Marked price = Rs 4650 and discount = 18%

Discount = 18% of marked price

$$= 18\% \ of \ Rs \ 4650$$

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

Selling price = marked price − discount

$$= Rs \ (4650 \ - \ 837) = Rs \ 3813$$

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

Q2.

Answer:

Marked Price = Rs 960

Selling Price = Rs 816

Discount = MP − SP

$$= Rs \ (960 - 816)$$

$$= Rs \ 144$$

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

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

$$= Rs \ 650$$

Rate of discount $= 104 \times \frac{100}{650}$

$$= 16\%$$

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.

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

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

$\Rightarrow 92x = 21620$

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

$\Rightarrow x = 235$

∴ 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.

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

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

$\Rightarrow 88x = 52800$

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

$\Rightarrow x = $ **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

$= 135 - 27$

$= Rs\ 108$

Now, gain = SP – CP

$$= 108 - 100$$

$$= Rs\ 8$$

$\therefore$ **Gain percentage** $= \frac{\text{gain}}{\text{CP}} \times 100$

$$= \frac{8}{100} \times 100$$

$$= 8\%$$

Q7.

Answer :

Let Rs 100 be the CP.

Then, marked price = **Rs 140**

Discount = 30% of MP

$$= \frac{30}{100} \times 140$$

$$= 42$$

Selling Price = marked price – discount

$$= 140 - 42$$

$$= Rs\ 98$$

Now, loss = CP – SP

$$= 100 - 98$$

$$= Rs\ 2$$

$\therefore$ **Loss percentage** $= \frac{Loss \times 100}{CP}$

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

$$= 2\%$$

Therefore, the shopkeeper had a loss of 2%.

Q8.

Answer :

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

Gain percentage = 25%

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

$$= \left\{ \frac{100+25}{100} \times 1080 \right\}$$

$$= \frac{125}{100} \times 1080$$

$$= \text{Rs } 1350$$

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 *********