



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

$$\Rightarrow 135000 = 75x \Rightarrow x = \frac{13500}{75} \Rightarrow x = 1800$$

Therefore, the marked price of the fan is **Rs 1800**.

Q9.

**Answer :**

Cost price of the refrigerator = **Rs 11515**

Gain percentage = 20%.

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

$$= \left\{ \frac{100 + 20}{100} \times 11515 \right\}$$

$$= \frac{120}{100} \times 11515$$

$$= \text{Rs } 13818$$

Let the marked price be Rs  $x$ .

Discount = 16% of **Rs  $x$**

$$= \frac{16x}{100}$$

S.P = MP - Discount

$$\Rightarrow 13818 = x - \frac{16x}{100}$$

$$\Rightarrow 13818 = \frac{100x - 16x}{100}$$

$$\Rightarrow 1381800 = 84x \Rightarrow x = \frac{1381800}{84} \Rightarrow x = 16450$$

Therefore, the marked price of the refrigerator is **Rs 16450**.

Q10.

**Answer :**

The cost price of the ring is **Rs 1190**.

Gain percentage = 20%.

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

$$= \left\{ \frac{100 + 20}{100} \times 1190 \right\}$$

$$= \frac{120}{100} \times 1190$$

$$= \text{Rs } 1428$$

Let the marked price be  $x$ .

Discount = 16% of **Rs  $x$**

$$= \frac{16x}{100}$$

SP = MP - Discount

$$\Rightarrow 1428 = x - \frac{16x}{100}$$

$$\Rightarrow 1428 = \frac{100x - 16x}{100}$$

$$\Rightarrow 142800 = 84x$$

$$\Rightarrow \frac{142800}{84} = x$$

$$\Rightarrow x = 1700$$

Therefore, the marked price of the ring is **Rs 1700**.

Q11.

**Answer :**

Let **Rs 100** be the cost price.

Gain required = 17%

$\therefore$  Selling price = **Rs 117**

Let the marked price be **Rs x**.

Then, discount = 10% of x

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

$$= \frac{x}{10}$$

Selling Price = MP - discount

$$\Rightarrow 117 = x - \frac{x}{10}$$

$$\Rightarrow 117 = \frac{9x}{10}$$

$$\Rightarrow 9x = 1170$$

$$\Rightarrow x = \frac{1170}{9}$$

$$\Rightarrow x = 130$$

$\therefore$  Marked price = **Rs 130**

Hence, the marked price is 30% above the cost price.

Q12.

**Answer :**

Let **Rs 100** be the cost price.

Gain required = 8%

Therefore, the selling price is **Rs 108**.

Let **Rs x** be the marked price.

Then, discount = 10% of x

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

$$= \frac{x}{10}$$

Selling Price = MP - discount

$$\Rightarrow 117 = x - \frac{x}{10}$$

$$\Rightarrow 117 = \frac{9x}{10}$$

$$\Rightarrow 9x = 1080$$

$$\Rightarrow x = \frac{1080}{9}$$

$$\Rightarrow x = 120$$

$\therefore$  Marked price = **Rs 120**

Hence, the marked price is 20% above the cost price.

**Q13.**

**Answer :**

Marked price of the TV = Rs 18500

First discount = 20%

**Now, 20% of 18500**

$$= \frac{20}{100} \times 18500$$

$$= \text{Rs } 3700$$

**Q14.**

**Answer :**

Let the marked price of the article be Rs 100.

First discount = 20%

Price after the first discount =  $(100 - 20) = \text{Rs } 80$

Second discount = 5% of 80

$$= \frac{5}{100} \times 80$$

$$= \text{Rs } 4$$

Price after the second discount =  $(80 - 4) = \text{Rs } 76$

Net selling price = Rs 76

$\therefore$  Single discount equivalent to the given successive discounts =  $(100 - 76)\% = 24\%$

\*\*\*\*\* END \*\*\*\*\*