



### Exercise 10C

Q1.

**Answer :**

List price of the refrigerator = Rs 14650

Sales tax = 6% of Rs 14650

$$= \text{Rs } \left( 14650 \times \frac{6}{100} \right) = \text{Rs } 879$$

Bill amount = Rs (14650 + 879)

$$= \text{Rs } 15529$$

Hence, the cost of the refrigerator is Rs 15,529.

Q2.

(i)

**Cost of the tie = Rs. 250**

**Sales tax = 6% of Rs 250**

$$= \text{Rs. } \left( 250 \times \frac{6}{100} \right)$$

$$= \text{Rs. } 15$$

**Hence, bill amount = Rs (250 + 15)**

$$= \text{Rs. } 265$$

(ii) **Cost of the medicines = Rs. 625**

**Sales tax = 4% of Rs. 625**

$$= \text{Rs. } \left( 625 \times \frac{4}{100} \right)$$

$$= \text{Rs. } 25$$

**Hence, bill amount = Rs (625 + 25)**

$$= \text{Rs } 650$$

(iii) **Cost of the cosmetics = Rs 430**

**Sales tax = 10% of Rs 430**

$$= \text{Rs. } \left( 430 \times \frac{10}{100} \right)$$

$$= \text{Rs } \left( 430 \times \frac{10}{100} \right)$$

$$= \text{Rs } 43$$

Hence, bill amount = Rs (430 + 43)

$$= \text{Rs. } 473$$

(iv) Cost of clothes = Rs 1175

Sales tax = 8% of Rs 1175

$$= \text{Rs } \left( 1175 \times \frac{8}{100} \right)$$

$$= \text{Rs } 94$$

Hence, bill amount = Rs (1175 + 94)

$$= \text{Rs. } 1269$$

Therefore, total amount to be paid by Reena = bill amount of all the four items

$$= \text{Rs } (265 + 650 + 473 + 1269)$$

$$= \text{Rs } 2657$$

Q3.

**Answer :**

Let the original price of the watch be Rs  $x$ .

VAT = 10% of Rs  $x$

$$= \text{Rs} \left( x \times \frac{10}{100} \right)$$

$$= \text{Rs} \frac{10x}{100}$$

$$\begin{aligned} \therefore \text{Price including VAT} &= \text{Rs} \left( x + \frac{x}{10} \right) \\ &= \text{Rs} \frac{11x}{10} \end{aligned}$$

$$\text{Now, } \frac{11x}{10} = 1980$$

$$\begin{aligned} \Rightarrow x &= \left( 1980 \times \frac{10}{11} \right) \\ &= 1800 \end{aligned}$$

Hence, the original price of the watch is Rs 1,800.

Q4.

**Answer :**

Let the original price of the shirt be Rs  $x$ .

VAT = 7% of Rs  $x$

$$= \text{Rs.} \left( x \times \frac{7}{100} \right)$$

$$= \text{Rs.} \frac{7x}{100}$$

$$\begin{aligned} \therefore \text{Price including VAT} &= \text{Rs.} \left( x + \frac{7x}{100} \right) \\ &= \text{Rs.} \frac{107x}{100} \end{aligned}$$

$$\text{Now, } \frac{107x}{100} = 1337.50$$

$$\begin{aligned} \Rightarrow x &= \text{Rs} \left( 1337.50 \times \frac{100}{107} \right) \\ &= \text{Rs } 1250 \end{aligned}$$

Hence, the original price of the shirt is Rs 1,250.

Q5.

**Answer :**

Let the price of 10 g of gold be Rs  $x$ .

VAT = 1% of Rs  $x$

$$= \text{Rs} \left( x \times \frac{1}{100} \right)$$

$$= \text{Rs } \frac{x}{100}$$

$$\therefore \text{Price including VAT} = \text{Rs. } \left( x + \frac{x}{100} \right) \\ = \text{Rs } \frac{101x}{100}$$

$$\text{Now, } \frac{101x}{100} = 15756$$

$$\Rightarrow x = \text{Rs } \left( 15756 \times \frac{100}{101} \right) \\ = \text{Rs } 15600$$

Hence, the price of 10 g of gold is Rs 15,600.

Q6.

**Answer :**

Let the original price of the computer be Rs  $x$ .

**VAT = 4% of Rs.  $x$**

$$= \text{Rs. } \left( x \times \frac{4}{100} \right) \\ = \text{Rs. } \frac{4x}{100}$$

$$\therefore \text{Price including VAT} = \text{Rs. } \left( x + \frac{4x}{100} \right) \\ = \text{Rs. } \frac{104x}{100}$$

$$\text{Now, } \frac{104x}{100} = 37960$$

$$\Rightarrow x = \left( 37960 \times \frac{100}{104} \right) \\ = 36500$$

$\therefore$  The original price of the computer is Rs 36,500

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