TEXT BOOK EXERCISE 7.4

Q. 1. The cost of a TV set at a showroom is ₹ 36500. The sales tax is 8%. Find the bill amount.

Solution. Cost of a T.V. set = ₹ 36500

Sales Tax = 8% of ₹ 36500

$$= ₹ \frac{8}{100} \times 36500 = ₹ 2220$$

Bill amount = Cost Price + Sales Tax

$$= ₹ 36500 + ₹ 2920$$

$$= ₹ 39420 \text{ Ans.}$$

Q. 2. A LED TV is available for ₹ 26880 including sales tax. If the original cost of LED TV is ₹ 24000. Find the rate of sales tax.

Solution. Original cost of LED TV

$$= ₹ 24000.$$

Price of LED TV including sales tax

$$= ₹ 26880$$

∴ Sales Tax = ₹ 26880 − ₹ 24000

$$= ₹ 2880$$

$$\text{Rate of Sales Tax} = \frac{\text{Sales Tax}}{\text{Original Cost}} \times 100$$

$$= \frac{2880}{24000} \times 100 = 12\% \text{ Ans.}$$

Q. 3. The sales tax rate is 8%. If Rahul bought a washing machine and paid a sales tax of ₹ 1920. What is the cost of washing machine before sales tax ?

Solution. Let cost of washing machine = ₹ x

Sales Tax = 8% of $x = \frac{8}{100}x$

As per question,

$$\frac{8}{100}x = ₹ 1920$$

$$\Rightarrow \quad x = ₹ \frac{1920 \times 100}{8}$$

$$= ₹ 24000 \text{ Ans.}$$

Hence, the cost of washing machine before sales tax = ₹ 24000 Ans.

Q. 4. Seema bought a box of biscuits for ₹ 904 which includes a sale tax of 13%. What is the price of biscuit box without sale tax ?

Solution. Let cost price of biscuits without sales tax = ₹ x

Sales Tax = 13% of ₹ x

$$= ₹ \frac{13}{100} \times x = ₹ \frac{13}{100}x$$

Price of biscuit box including sales tax

$$= x + \frac{13x}{100} = \frac{113x}{100}$$

As per question

$$\frac{113x}{100} = 904$$

$$\Rightarrow \qquad x = \frac{904 \times 100}{113} = ₹\ 800 \text{ Ans.}$$

Q. 5. The cost of pair of shoes at a shop is ₹ 440. The sales tax is 5%. Find bill amount.

Solution. Cost of pair of shoes = ₹ 440

$$\text{Sales Tax} = 5\% \text{ of } ₹\ 440 = ₹\ \frac{5}{100} \times 440$$

$$= ₹\ 22$$

Hence, bill amount = Cost Price + Sales Tax
$$= ₹\ 440 + ₹\ 22 = ₹\ 462 \text{ Ans.}$$

Q. 6. Multiple Choice Questions :

(i) Sales Tax on an item at 5% with marked price of ₹ 200

   (a) ₹ 5   (b) ₹ 10

   (c) ₹ 15   (d) ₹ 20.

(ii) If sales tax of 15% is levied on shoes marked at ₹ 2000, find the final price after adding sales tax.

   (a) ₹ 2500   (b) ₹ 2015

   (c) ₹ 2300   (d) ₹ 2500.

(iii) A book after adding sales tax at 10% is sold for ₹ 165. What was its price before adding sales tax.

   (a) ₹ 100   (b) ₹ 150

   (c) ₹ 160   (d) ₹ 140.

(iv) A Cricket bat with list price of ₹ 5000 is sold after adding sales tax of 8%. Find selling price of bat.

   (a) ₹ 5200   (b) ₹ 5600

   (c) ₹ 6000   (d) ₹ 5400

Ans. (i) (b) ₹ 10   (ii) (c) ₹ 2300

     (iii) (b) ₹ 150   (iv) (d) ₹ 5400.