3/8/21

Ex - 8(E)

1. Rajat purchases a wrist-watch costing ₹540. The rate of tax is 8%. Find the total amount paid by Rajat for the watch.

Ans. Cost of watch = ₹540

Rate of Sales tax = 8%

$$\text{Amount of Sales tax} = 540 \times \frac{8}{100}$$

$$= ₹\frac{4320}{100} = ₹43.20$$

Total price = CP + Tax = ₹(540 + 43.20) = ₹583.20

So, Rajat have to pay total amount ₹583.20 for the watch.

2. Ramesh paid ₹345.60 as tax on a purchase of ₹3,840. Find the rate of tax.

Ans On ₹3840, Sales tax is = ₹345.60

$$\text{Percent of Sales tax} = \frac{345.60 \times 100}{3840}$$

$$= \frac{34560 \times 100}{100 \times 3840}$$

$$= 9\%$$

3. The price of a washing machine, inclusive of Tax, is ₹ 13,530/-. If the tax is 10%, find its basic (cost) price.

Ans- SP of washing machine = ₹13,530.

Rate of tax = 10%

$$CP = \frac{SP \times 100}{100 + \text{Rate of Sales tax}}$$

$$= \frac{13530 \times 100}{100 + 10}$$

$$= \frac{13530 \times 100}{110} = ₹\ 12,300$$

4. Sarita purchases biscuits costing ₹ 158 on which the rate of tax is 6%. She also purchases some cosmetic goods costing ₹ 354 on which the rate of tax is 9%. Find the total amount to be paid by Sarita.

Ans- Cost of biscuits = ₹158

Sales tax @ 6% = $₹\ 158 \times \frac{6}{100} = \frac{948}{100}$

$= ₹\ 9.48$

Total price of biscuits = ₹(158 + 9.48)

= ₹ 167.48

Cost of cosmetic goods = ₹ 354

Sales tax @ 9% = ₹ 354 × $\frac{9}{100}$

= $\frac{3186}{100}$ = ₹ 31.86

Total cost of cosmetic goods = ₹(354 + 31.86)

= ₹ 385.86

Total amount paid by Sarita :

= ₹(167.48 + 385.86)

= ₹ 553.34

5. The price of a T.V. set inclusive of tax of 9% is ₹ 13,407. Find its marked price. If tax is increased to 13%, how much more does the customer has to pay for the T.V. set?

Ans Sales price of TV set = ₹ 13,407

Rate of sales tax = 9%

Let marked price of TV = x

Then Sale price

$$= x + \frac{x \times 9}{100} = \frac{100x + 9x}{100} = \frac{109x}{100}$$

$$\frac{109x}{100} = ₹ 13,407$$

$$x = \frac{13407 \times 100}{109} = ₹ 12,300$$

Marked price = ₹ 12,300

In Second case, Sales tax = 13%

Amount of sales tax = $₹ 12300 \times \frac{13}{100}$

$= ₹ 1,599$

Sales price = ₹ (12300 + 1599) = ₹ 13899

Difference between the two sales price

= ₹ (13899 − 13407) = ₹ 492