EXERCISE 8(E)

1.) Rajat purchases a wrist-watch costing Rs. 540. The rate of Sales Tax is 8%. Find the total amount paid by Rajat for the watch.

Ans → Cost of watch = ₹540

Rate of Sales Tax = 8%

∴ Amount of Sales Tax = ₹540 × $\frac{8}{100}$

= ₹$\frac{4320}{100}$ = ₹43.20

Total Amount of watch = ₹540 + ₹43.20 = ₹583.20

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

Ans → on ₹3840, Sales Tax is = ₹345.60

∴ percent of Sale Tax = $\frac{345.60 \times 100}{3840}$

= $\frac{34560 \times 100}{100 \times 3840}$ = 9%

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

Ans-> Selling price of washing machine = ₹13,530
Rate of Sales Tax = 10%
cost price = $\frac{\text{Selling price} \times 100}{(100 + \text{Rate of Sales Tax})}$
$= \frac{13530 \times 100}{100 + 10} = \frac{13530 \times 100}{110} = ₹12,300$

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

Ans-> cost of biscuits = ₹158
Sales Tax @6% = $\frac{₹158 \times 6}{100} = \frac{948}{100} = ₹9.48$
Total price of biscuits = ₹158 + ₹9.48
= ₹167.48
cost of cosmetic goods = ₹354
Sales Tax @9% = $₹354 \times \frac{9}{100}$
$= \frac{3186}{100} = ₹31.86$

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 sales tax of 9% is ₹13,407. Find its marked price. If Sales Tax is increased to 13%, how much more does the customer has to pay for the T.V?

Ans-> Sale price of T.V. set = ₹13,407
Rate of Sales tax = 9%
Let marked price of T.V = 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 = $₹12300 \times \frac{13}{100} = ₹1,599$

~~Ans~~

Sale price = ₹12,300 + 1,599 = ₹13,899

Difference between the two sales price

= ₹13,899 - ₹13,407 = ₹492