



Q1- Rajat purchases a wrist-watch costing Rs. 540. The rate of sales tax is 8%. Find 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%

$$\therefore \text{Amount of sales tax} = ₹ 540 \times \frac{8}{100}$$

$$= ₹ \frac{4320}{100} = ₹ 43.20$$

$$\text{Total amount of watch} = ₹ 540 + ₹ 43.20 = ₹ 583.20$$

Q2 Ramesh paid ₹ 345.60 as sales tax on a purchase of ₹ 3840. Find the rate of sales tax.

Ans. on ₹ 3840, sales tax is = ₹ 345.60

$$\therefore \text{percent of sales tax} = \frac{345.60 \times 100}{3840}$$

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

Q3- 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%

$$\therefore \text{Cost price} = \frac{\text{Selling price} \times 100}{(100 + \text{Rate of Sales Tax})}$$

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

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

Q4. 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

$$\text{Sales tax } 6\% = \text{£} 158 \times \frac{6}{100} = \frac{948}{100}$$

$$= \text{£} 9.48$$

$$\text{Total price of biscuits} = \text{£} 158 + \text{£} 9.48$$

$$= \text{£} 167.48$$

Cost of cosmetic goods = £ 354.

$$\text{Sales Tax } 9\% = \text{£} 354 \times \frac{9}{100}$$

$$= \frac{3186}{100} = \text{£} 31.86$$



Q5. The ~~price~~ 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. =  $x$

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

$$\therefore \frac{109x}{100} = \text{£ } 13,407$$

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

$\therefore$  Marked price = £ 12,300  
in second case, sales tax =  $\text{£ } 12300 \times \frac{13}{100}$   
= £ 1,599

$\therefore$  Sale price = £ 12,300 + 1,599 = £ 13,899  
Difference between the earlier two sales price = £ 13,899 - £ 13,407 = £ 492.