4. i) 252 is 35% of a certain number, find the number.

Ans) Given: 35 % of a certain number = 252

Let the number be x

$$x \times \frac{35}{100} = 252$$

$$\Rightarrow x = \frac{252 \times 100}{35} = 720$$

$$\Rightarrow x = 720$$

$\therefore$ The number is 720.

ii) If 14% of a number is 315; find the number.

Ans) Given: 14 % of a number = 315

Let the number be x

$$x \times \frac{14}{100} \times 315$$

$$\Rightarrow x = \frac{315 \times 100}{14} = 2250$$

$$\Rightarrow x = 2250$$

$\therefore$ The number is 2250

5. Find the percentage change, when a number is changed from:

i) 80 to 100

Ans) No = 80

Changed no = 100

Change = $100 - 80 = 20$

% change = $\frac{20}{80} \times 100 = 25$ % increased.

ii) 100 to 80

Ans) No = 100

Change no = 80

Change = 100 − 80 = 20

% change = $\frac{20}{100} \times 100$ = 20 % is decreased

iii) 6.25 to 7.50

Ans) No = 6.25

Change no = 7.50

Change = $\frac{750}{100} - \frac{625}{100} = \frac{750-625}{100} = \frac{125}{100}$

% change = $\frac{125}{625} \times 100 = \frac{125}{625} \times 100^{20} = 20$ % increased

6) An auctioneer charges 8% for selling a house. If the house is sold for ₹ 2,30,500. Find the charges of the auctioneer.

Ans) SP = 2,30,500

8% of 2,30,500 = $\frac{8}{100} \times 2,30,500$

= 18,440

7) Out of 800 oranges, 50 are found rotten. Find the percentage of good oranges.

Ans) No. of oranges = 800

Rotten oranges = 50

No. of good oranges = 800 − 50

= 750

% of good oranges = $\frac{750}{800} \times 100$

= $\frac{375}{4} = 93\frac{3}{4}$ %