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

Ans→ let the number be x

By the given condition

$$252 = \frac{x \times 35}{100} = \frac{x \times 7}{20}$$

$$\therefore x = \frac{252 \times 20}{7} = 36 \times 20 = 720$$

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

Ans→ let the number be x

By the given condition,

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

$$\therefore x = \frac{315 \times 100}{14} = \frac{45 \times 100}{2} = 45 \times 50 = 2250$$

Hence read number = 2250

5> Find the percentage change, when a number is changed From:

(i) 80 to 100

Ans→ original number = 80

new number = 100

change = (100 - 80) = 20

∴ percentage change (increase)

$$= \frac{20}{80} \times 100$$

$$= 25\%$$

(ii) 100 to 80

Ans-> original number = 100

new number = 80

change (100 - 80) 20

∴ percentage change (decrease) = $\frac{20}{100} \times 100 = 20\%$

6.25 to 7.50

(iii) original number = 6.25,

New number = 7.50

change (Increase) = (7.50 - 6.25) = 1.25

∴ Increase $\frac{=1.25}{6.25} \times 100 = 20\%$

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

Ans-> selling price of the house = Rs. 2,30,500

Rate of charges of the auctioneer = 8% of selling

∴ charges of the auctioneer = 8% of 2,30,500

$= \frac{8}{100} \times 2,30,500 = Rs. 18,440$

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

Ans-> Total number of oranges = 800

Rotten oranges = 50

number of good oranges = 800 - 50 = 750

percentage of good oranges $= \frac{750}{800} \times 100 = \frac{750}{8} = \frac{375}{4}$

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