

## Exercise 7A

3 iii) 2.7 is what percent of 18  
 = let  $2.7 = x\%$  of 18 =  $\frac{18 \times x}{100}$

$$x = \frac{2.7 \times 100}{18} = \frac{270}{18} = \frac{30}{2} = 15\%$$

44 iv) 252 is 35% of a certain number, find the number.  
 = let the number be  $x$

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

~~300~~  $36 = 252 \times \frac{20}{7}$

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

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

Let the number be  $x$

$$315 = x \times \frac{14}{100} = x \times \frac{7}{50}$$

~~$x = \frac{315 \times 50}{7} = 2250$~~

$$\therefore x = \frac{315 \times 50}{7} = 45 \times 50 = 2250$$

54 iv) 80 to 100

= Original value = 80, New value = 100

Increase =  $100 - 80 = 20$

$$\therefore \text{Percentage change (increase)} = \frac{20}{80} \times 100 = 25\%$$

ii) 100 to 80

Original value = ~~80~~<sup>100</sup>, New value = 80

Decrease =  $100 - 80 = 20$

$$\therefore \text{Percentage change (decrease)} = \frac{20}{100} \times 100 = 20\%$$

iii) 6.25 to 7.50

Original value = 6.25, New value = 7.50

Increase = 7.50 - 6.25 = 1.25

Percentage change (increase) =  $\frac{1.25}{6.25} \times 100 = 20\%$

64) House selling price = ₹ 2,30,500

Rate of charges of auctioneer = 8% of selling price

Charges of auctioneer = 8% of 2,30,500

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

74) Total number of oranges = 800

Rotten oranges found = 50

Number of good oranges = 800 - 50 = 750

Percentage of good oranges =  $\frac{750}{800} \times 100 = \frac{375}{4} = 93\frac{3}{4}\%$