

W
19/7/20

Ch-7

percent and percentage

EXERCISE 7(A)

Q1) Evaluate:

(i) 55% of 160 + 24% of 50 - 36% of 150

$$\text{Ans} \rightarrow = \frac{55 \times 160}{100} + \frac{24 \times 50}{100} - \frac{36 \times 150}{100}$$

$$= 11 \times 8 + 12 - 18 \times 3 = 88 + 12 - 54 = 46$$

(ii) 9.3% of 500 - 4.8% of 250 - 2.5% of 240

$$\text{Ans} \rightarrow = \frac{9.3 \times 500}{100} - \frac{4.8 \times 250}{100} - \frac{2.5 \times 240}{100}$$

$$= \frac{9.3 \times 5}{1} - \frac{4.8 \times 10}{1} - \frac{2.5 \times 12}{1} \\ = 46.5 - 48 - 30 = -31.5$$

Q2) (i) A number is increased from 125 to 150; Find the percentage increase.

Ans -> original value = 125, new value = 150

$$\text{increase} = (150 - 125) = 25$$

$$\text{increase \%} = \frac{25}{125} \times 100 = 20\%$$

(ii) A number is decreased from 125 to 100; Find the percentage decrease.

Ans -> original number = 125, new value = 100

$$\text{Decrease} = (125 - 100) = 25$$

$$\text{Decrease \%} = \frac{25}{125} \times 100 = 20\%$$

Q3) Find:

(i) 45 is what percent of 54?

Ans -> let 45 = x percent of 54 = $\frac{54 \times x}{100}$

$$\Rightarrow x = \frac{45 \times 100}{54} = \frac{5 \times 100}{6}$$

$$= \frac{250}{3} = 83 \frac{1}{3} \%$$

(ii) 2.7 is what percent of 18?

Ans \rightarrow Let 2.7 = x percent of 18 = $18 \times x$

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

\therefore Reqd. percentage = 15%