

## Ex - 7(A)

- 1) i) 55% of 160 + 24% of 50 - 36% of 150  
ii) 9.3% of 500 - 4.8% of 250 - 2.5% of 240

$$\begin{aligned} \text{i)} & 55\% \text{ of } 160 + 24\% \text{ of } 50 - 36\% \text{ of } 150 \\ & = \left( \frac{55}{100} \times 160 \right) + \left( \frac{24}{100} \times 50 \right) - \left( \frac{36}{100} \times 150 \right) \\ & = 88 + 12 - 54 \\ & = 100 - 54 \\ & = 46 \end{aligned}$$

$$\begin{aligned} \text{ii)} & 9.3\% \text{ of } 500 - 4.8\% \text{ of } 250 - 2.5\% \text{ of } 240 \\ & = \frac{93}{1000} \times 500 - \frac{48}{1000} \times 250 - \frac{25}{1000} \times 240 \\ & = \frac{93 \times 5}{10} - 12 - 6 \\ & = 46.5 - 18 \\ & = 28.5 \end{aligned}$$

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20)  
 5i) A num is increased from 125 to 150: find the percentage increase

Original value = 125

New value = 150

Increase = 25

$$\text{Increase percent} = \frac{25}{125} \times 100 = \frac{25^1}{125} \times 100^2 = 20\%$$

ii) A number is decreased from 125 to 100 find the percentage decrease.

Original value = 125

New value = 100

Decrease = 125 - 100

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

3) i)  ~~$\frac{45}{54} \times 100 = 83\frac{1}{3}$~~

Let 45 be  $x\%$  of 54

$$x\% \text{ of } 54 = 45$$

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

$$\Rightarrow x = \frac{45 \times 100}{54} = 83\frac{1}{3}$$

$$\Rightarrow x = \frac{450}{3} = 83\frac{1}{3}\%$$

ii) Let 27 be  $x\%$  of 18

$$x\% \text{ of } 18 = 27$$

$$\frac{x}{100} \times 18 = \frac{27}{10}$$

$$= x = \frac{27 \times 100}{18 \times 10} = 15$$

$$= x = 15$$

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