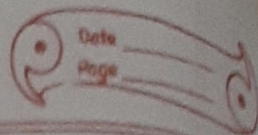


## Percent &amp; Percentage Exercise 7A



17 Evaluate:

$$\text{i) } 55\% \text{ of } 160 + 24\% \text{ of } 50 - 36\% \text{ of } 150$$

$$\frac{11}{20} \times 160 + \frac{12}{25} \times 50 - \frac{18}{25} \times 150$$

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

$$\text{ii) } 9.3\% \text{ of } 500 - 4.8\% \text{ of } 250 - 2.5\% \text{ of } 240$$

$$9.3 \times 500 - 4.8 \times 250 - 2.5 \times 240$$

$$9.3 \times 5 - 4.8 \times 2.5 - 0.5 \times 12$$

$$= 46.5 - 12 - 6 = 46.5 - 18 = 28.5$$

24) i) A number is increased from 125 to 150; find the percentage increase.

Original value = 125, New value = 150

$$\text{Increase} = 150 - 125 = 25$$

$$\text{Increase \% / percentage} = \frac{25}{125} \times 100 = 20\%$$

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

Original value = 125, New value = 100

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

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

37) i) 45 is what percent of 54

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

$$\Rightarrow x = \frac{45}{54} \times 100 = \frac{5}{6} \times 100 = \frac{500}{6} = \frac{250}{3} = 83\frac{1}{3}\%$$

Req. percentage  $\Rightarrow 83\frac{1}{3}\%$

## Exercise 7A

3 iii 2.7 is what percent of 18

$$= \text{let } 2.7 = x\% \text{ of } 18 = \frac{18 \times x}{100}$$

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

number find the