

# Percentage Ex 16 (A)

Date \_\_\_\_\_

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(i)

$$\frac{13}{20} = \frac{13 \times 5}{20 \times 5} = \frac{65}{100} = 65\%$$

(ii)

$$\frac{21}{30} = \frac{2 \times 7}{3 \times 10} = \frac{7}{10} = \frac{7 \times 10}{10 \times 10} = \frac{70}{100} = 70\%$$

2.

(i)

$$\frac{3}{200} / 2 = \frac{1.5}{100} = 1.5\%$$

(ii)

$$\frac{5}{6} = \frac{5 \times 16.7}{6 \times 16.7} = \frac{83.5}{100} = 83.5\%$$

(iii)

$$\frac{65}{80} = \frac{6500}{80} = \boxed{65 \times 100} = 81.25$$

(iv)

$$\frac{2}{3} = \frac{2 \times 33.33}{3 \times 33.33} = \frac{66.66}{100} = 66.66\%$$

3.

(i)

$$0.10 = \frac{10}{100} = 10\%$$

(ii)

$$\frac{2}{100} = 2\%$$

(iii)

$$\frac{7}{10} = \frac{7 \times 10}{10 \times 10} = \frac{70}{100} = 70\%$$

(iv)

$$\frac{15}{100} = 15\%$$

$$(v) 0.032 = \frac{32}{1000} = 32\% = \frac{032}{1000} / 100 = \frac{32}{100} = 32\%$$

$$4.8 \quad 8\% = \frac{8}{100} = \frac{8}{100} = \frac{2 \times 4}{2 \times 50} = \frac{4}{50} = \frac{2 \times 2}{2 \times 25} = \frac{2}{25}$$

$$\frac{2}{25}$$

$$= 8\% = \frac{2}{25} \text{ or } 2/25$$

$$(ii) \quad 20\% = \frac{20}{100} = \frac{\cancel{2} \times 10}{\cancel{2} \times 50} = \frac{10}{50} = \frac{2 \times 5}{2 \times 25} = \frac{1}{5}$$

$$= \frac{2 \times 5}{2 \times 5} = \frac{\cancel{2} \times 1}{\cancel{2} \times 5} = \frac{1}{5}$$

$$= \frac{1}{5} = 20\% = \frac{1}{5}$$

$$(iii) \quad 85\% = \frac{85}{100} = \frac{85}{5 \times 20} = \frac{5 \times 17}{20} = \frac{17}{20}$$

$$= \frac{17}{20} = 85\%$$

$$(iv) \quad 250\% = \frac{250}{100} = \frac{5 \times 50}{5 \times 20} = \frac{50}{20} = \frac{5 \times 10}{5 \times 4} = \frac{10}{4}$$

$$= \frac{10}{4} = \frac{2 \times 5}{2 \times 2} = \frac{5}{2} = 2 \frac{1}{2}$$

$$(v) \quad 12 \frac{1}{2} = \frac{25}{2} = \frac{2 \times 25}{2} = \frac{50}{2} = 25$$

$$12 \frac{1}{2} = \frac{25}{2}$$

5.

$$(i) \quad \frac{25}{100} = \frac{25}{100} = 0.25\%$$

$$(ii) \quad \frac{108}{100} = 1.08\%$$

$$(iii) \quad \frac{95}{100} = 0.95\%$$

$$(iv) \quad \frac{4.5}{100} = 0.045\%$$

$$(v) \quad \frac{29.2}{100} = 0.292\%$$

6.

$$(i) \quad 7 =$$

$$\frac{7}{1} = \frac{7 \times 100}{1 \times 100} = \frac{700}{100}$$

$$= 700\%$$

$$(ii) \frac{2}{1} = \frac{2 \times 100}{1 \times 100} = \frac{200}{100}$$

$$= 200\%$$

$$(iii) \frac{19.5}{100} = \frac{19.5}{1} = \frac{19.5 \times 100}{1 \times 100} = \frac{1950}{100} = 1950\%$$

$$(iv) \frac{5.37}{100} = \frac{5.37 \times 100}{1 \times 100} = \frac{537}{100}$$