

1. Express each of the following statements in percentage form:

i) 13 out of 20

$$\text{Ans} \rightarrow \frac{13}{20} = \frac{13 \times 5}{20 \times 5} = \frac{65}{100}$$

$$= 65\%$$

ii) 21 eggs out of 30 are good

$$\text{Ans} \rightarrow \frac{21}{30} = \frac{7}{10}$$

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

$$\frac{70}{100} = 70\%$$

Therefore, 70% of the eggs are good.

2. Express the following fractions as percent:

i)  $\frac{3}{200}$

$$\text{Ans} \rightarrow \frac{3}{200} \times 100$$

$$= 1.5\%$$

ii)  $\frac{5}{6}$

$$\text{Ans} \rightarrow \frac{5}{6} \times 100$$

$$= \frac{500}{6} \%$$

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$$= \frac{500}{6} = \frac{250}{3} \%$$

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

iii)  $\frac{65}{80}$

Ans  $\rightarrow \frac{65}{80} \times 100\%$

$$= \frac{6500}{80} \%$$

$$= \frac{6500}{80} \% = \frac{1300}{16} \%$$

$$= \frac{1300}{16} \% = \frac{650}{8} \%$$

$$= \frac{650}{8} \% = \frac{325}{4} \%$$

$$= 81\frac{1}{4} \%$$

iv)  $\frac{2}{3}$

Ans  $\rightarrow \frac{2}{3} \times 100\%$

$$= \frac{200}{3} \% = 66\frac{2}{3} \%$$

3. Express as percent:

i) 0.10

Ans  $\rightarrow 0.10 \times 100$   
 $= 10\%$

ii) 0.02

Ans  $\rightarrow 0.02 \times 100$   
 $= 2\%$

iii) 0.7

Ans  $\rightarrow 0.7 \times 100$   
 $= 70\%$

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iii) 0.15

Ans  $\rightarrow 0.15 \times 100$   
 $= 15\%$

iv) 0.032

Ans  $\rightarrow 0.032 \times 100$   
 $= 3.2\%$

4) Convert into fractions in their lowest terms:

i) 8%

Ans  $\rightarrow 8\% = \frac{8}{100}\%$   
 $= \frac{8}{100}\% = \frac{4}{50}\%$   
 $= \frac{4}{50}\% = \frac{2}{25}\%$

ii) 20%

Ans  $\rightarrow 20\% = \frac{20}{100}\%$   
 $= \frac{20}{100}\% = \frac{4}{20}\%$   
 $= \frac{4}{20}\% = \frac{2}{10}\%$   
 $= \frac{2}{10}\% = \frac{1}{5}\%$

iii) 85%

Ans  $\rightarrow \frac{85}{100}\% = \frac{17}{20}\%$

iv) 250%

Ans  $\rightarrow \frac{250}{100}\% = \frac{50}{20}\%$   
 $= \frac{50}{20}\% = \frac{5}{2}\%$

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

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$$4) \quad 12\frac{1}{2}\%$$

$$\text{Ans} \rightarrow 12\frac{1}{2}\% = \frac{25}{2}$$

$$\frac{25}{2} = \frac{25}{200}$$

$$\frac{25}{200} = \frac{5}{40}$$

$$\frac{5}{40} = \frac{1}{8}$$

5) Express as decimal fractions.

i) 25%

$$\text{Ans} \rightarrow 25 \div 100 = 0.25$$

ii) 108%

$$\text{Ans} \rightarrow 108 \div 100 = 1.08$$

iii) 95%

$$\text{Ans} \rightarrow 95 \div 100 = 0.95$$

iv) 4.5%

$$\text{Ans} \rightarrow 4.5 \div 100 = 0.045$$

v) 29.2%

$$\text{Ans} \rightarrow 29.2 \div 100 = 0.292$$

6) Express each of the following numbers as percent:

i) 7

$$\text{Ans} \rightarrow 7 \times 100 = 700\%$$

ii) 2

$$\text{Ans} \rightarrow 2 \times 100 = 200\%$$

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iii) 19.5

$$\text{Ans} \rightarrow 19.5 \times 100 \\ = 1950\%$$

iv) 5.37

$$\text{Ans} \rightarrow 5.37 \times 100 \\ = 537\%$$