

HOMEWORK

Exercise - 16 (A)

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

(i) 13 out of 20

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

65% is the answer in percentage

(ii) 21 eggs out of 30 are good.

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

∴ 70% eggs are good

2. Express the following fractions as percent:

(i)  $\frac{3}{200} = \frac{3}{200} \times 100\% = \frac{3}{200} \times \frac{100}{1}\%$

Ans - 1.5%

$\frac{3}{200} = \frac{3 \cancel{00}}{200 \cancel{00}} = \frac{3}{200} = \frac{1.5}{100} = 1.5\%$





0/0

81.0  

$$\begin{array}{r} 8 \overline{) 650} \\ - 64 \phantom{0} \\ \hline 10 \\ - 8 \\ \hline 2 \end{array}$$

81.25  

$$\begin{array}{r} 8 \overline{) 650} \\ - 64 \phantom{0} \\ \hline 10 \\ - 8 \\ \hline 20 \\ - 16 \\ \hline 40 \\ - 40 \\ \hline 0 \end{array}$$

(v)  $0.032 = \frac{32}{1000} \times 100\% = \frac{32}{10}$

$$\begin{array}{r} 2 \overline{) 5} \\ - 4 \\ \hline 1 \\ = 2 \frac{1}{2} \end{array}$$

= 3.2 percent

$$\begin{array}{r} 10 \overline{) 32} \\ - 30 \\ \hline 20 \\ - 20 \\ \hline 0 \end{array}$$

4. Convert into fraction in their lowest terms:

(i) 8%

$$\Rightarrow \frac{8}{100} = \frac{2}{25}$$

$$\begin{array}{r} 50 \overline{) 100} \\ - 100 \\ \hline 0 \end{array}$$

(ii) 20%

$$\Rightarrow \frac{20}{100} = \frac{10}{50} = \frac{2}{5}$$

66.66  

$$\begin{array}{r} 66 \overline{) 666} \\ - 66 \phantom{0} \\ \hline 0 \end{array}$$

(iii) 85%

$$\Rightarrow \frac{85}{100} = \frac{17}{20}$$

$$\begin{array}{r} 5 \overline{) 85} \\ - 50 \\ \hline 35 \\ - 35 \\ \hline 0 \end{array}$$

(iv) 250%

$$\Rightarrow \frac{250}{100} = \frac{25}{10} = \frac{5}{2} = 2 \frac{1}{2}$$

0/0

$$\begin{array}{r} 2 \overline{) 17} \\ - 16 \\ \hline 1 \end{array}$$



~~(iv)  $12\frac{1}{2} = 12\frac{1}{2}$~~

~~$\Rightarrow \frac{25}{2} \times 100 = \frac{2500}{2}$~~

~~$\Rightarrow \frac{2500}{2}$~~

(v)  ~~$12.5\%$~~   $12\frac{1}{2} = 12.5\%$

$\frac{12.5}{10} \times \frac{1}{100}$

$\frac{12.5}{100}$

$= 12.5 \times \frac{1}{100}$

$= \frac{125}{10} \times \frac{1}{100} = \frac{125}{1000} = \frac{25}{200} = \frac{5}{40}$

$\frac{1}{8}$  (Ans)

5. Express as decimal fractions.

(i)  $25\%$

$= 0.25\%$

(i)  $10$

$\Rightarrow 1.0$

(ii)  $9$

$\Rightarrow 0.$

(iv)  $4$

$\Rightarrow 0.$

(v)  $29$

$\Rightarrow 0.$

6. (i)  $70$

$\Rightarrow 70$

2. (ii)  $20$

$\Rightarrow 20$

(iii)  $19$

$\Rightarrow 19$

(iv)  $53$

$\Rightarrow 53$

$$(i) 108\%$$

$$\Rightarrow 1.08\%$$

$$(ii) 95\%$$

$$\Rightarrow 0.95\%$$

$$(iv) 4.5\%$$

$$\Rightarrow 0.045\%$$

$$(v) 29.2\%$$

$$\Rightarrow 0.292\%$$

$$6. (i) 7$$

$$\Rightarrow 700\%$$

$$(ii) 2$$

$$\Rightarrow 200\%$$

$$(iii) 19.5$$

$$\Rightarrow 1950\%$$

$$(iv) 5.37$$

$$\Rightarrow 537\%$$

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