

HW
1.12.21



Exercise 16(A)

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

i) 13 out of 20

$$\text{Sol- } \frac{13}{20} \times 100 = \frac{1300}{20} = 65\%$$

ii) 21 eggs out of 30 are good

$$\text{Sol- } \frac{21}{30} \times 100 = \frac{2100}{30} = 70\%$$

2. Express the following fractions as percent:

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

$$\text{Sol- } \frac{3}{200} \times 100 = \frac{300}{200} = 1\frac{1}{2}\% = 1.5\%$$

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

$$\text{Sol- } \frac{5}{6} \times 100 = \frac{500}{6} = 83\frac{1}{3}\%$$

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

$$\text{Sol- } \frac{65}{80} \times 100 = \frac{6500}{80} = \frac{325}{4} = 81\frac{1}{4}\% = 81.25\%$$

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

$$\text{Sol- } \frac{2}{3} \times 100 = \frac{200}{3} = 66\frac{2}{3}\%$$

3. Express as Percent:

i) 0.10

$$\text{Sol- } \frac{10}{100} \times 100 = 10\%$$

ii) 0.02

Sol- $\frac{2}{100} \times 100 = 2\%$

iii) 0.7 =

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

iv) 0.15

Sol- $\frac{15}{100} \times 100 = 15\%$

v) 0.032

Sol- $\frac{32}{1000} \times 100 = \frac{32}{10} = 3.2\%$

4. Convert into fractions in their lowest terms:

i) 8%

Sol- $\frac{8}{100} = \frac{2}{25}$

ii) 20%

Sol- $\frac{20}{100} = \frac{1}{5}$

iii) 85%

Sol- $\frac{85}{100} = \frac{17}{20}$

iv) 250%

Sol- $\frac{250}{100} = \frac{5}{2} = 2\frac{1}{2}$

v) $12\frac{1}{2}\%$

Sol- $\frac{25}{2}\% = \frac{25}{2 \times 100} = \frac{1}{8}$

5. Express as decimal fractions:

i) 25%

$$\text{Sol- } \frac{25}{100} = \frac{25}{100} = 0.25$$

ii) 108%

$$\text{Sol- } \frac{108}{100} = 1.08\%$$

iii) 95%

$$\text{Sol- } \frac{95}{100} = 0.95$$

iv) 4.5%

$$\text{Sol- } \frac{4.5}{10 \times 100} = \frac{45}{1000} = 0.045$$

v) 29.2%

$$\text{Sol- } \frac{29.2}{10 \times 100} = \frac{292}{1000} = 0.292$$

6. Express each of the following natural numbers as percent:

i) 7

$$\text{Sol- } 7 \times 100 = 700\%$$

ii) 2

$$\text{Sol- } 2 \times 100 = 200\%$$

iii) 19.5

$$\text{Sol- } \frac{19.5}{100} \times 100 = 1950\%$$

iv) 5.37

$$\text{Sol- } \frac{537}{100} \times 100 = 537\%$$