

Class:-5

Lesson:-12

Percentage

## Exercise-1

1. (a)  $\frac{1}{10} = \frac{1}{10} \times 100\% = \frac{100}{10}\% = 10\%$

(b)  $54 = 54 \times 100\% = 5400\%$

(c)  $\frac{9}{27} = \frac{9}{27} \times 100\% = \frac{900}{27}\% = \frac{100}{3}\% = 33\frac{1}{3}\%$

(d)  $\frac{37}{10} = \frac{37}{10} \times 100\% = \frac{3700}{10}\% = 370\%$

(e)  $4\frac{1}{11} = 4\frac{1}{11} \times 100\% = \frac{45}{11} \times 100\% = \frac{4500}{11}\% = 409\frac{1}{11}\%$

2. (a)  $0.05 = 0.05 \times 100\% = 5\%$

(b)  $0.95 = 0.95 \times 100\% = 95\%$

(c)  $1.07 = 1.07 \times 100\% = 107\%$

(d)  $32.2 = 32.2 \times 100\% = 3220\%$

(e)  $213.5 = 213.5 \times 100\% = 21350\%$

3. (a)  $140\% = \frac{140}{100} = \frac{140 \div 20}{100 \div 20} = \frac{7}{5} = 1\frac{2}{5}$  (HCF of 140 and 100 = 20)

(b)  $33\frac{1}{3}\% = \frac{100}{3}\% = \frac{100}{3 \times 100} = \frac{1}{3}$

(c)  $9\frac{1}{3}\% = \frac{28}{3}\% = \frac{28}{3 \times 100} = \frac{28}{300} = \frac{28 \div 4}{300 \div 4} = \frac{7}{75}$

(HCF of 28 and 300 = 4)

(d)  $125\% = \frac{125}{100} = \frac{125 \div 25}{100 \div 25} = \frac{5}{4} = 1\frac{1}{4}$  (HCF of 125 and 100 = 25)

(e)  $11\frac{1}{9}\% = \frac{100}{9}\% = \frac{100}{9 \times 100} = \frac{1}{9}$

4. (a)  $97\% = \frac{97}{100} = 0.97$

(b)  $150\% = \frac{150}{100} = 1.5$

(c)  $345\% = \frac{345}{100} = 3.45$

(d)  $425\% = \frac{425}{100} = 4.25$

(e)  $30.5\% = \frac{30.5}{100} = 0.305$