

To Convert percentage into decimals :-

Rule: To convert a percentage into decimal. Simply divide the number by 100. Shift the decimal by two places to the left.

5. (a) 0.95%

$$= \frac{0.95}{100} \quad (\text{drop the percentage sign and divide the number by 100})$$

$$= 0.0095 \quad (\text{shifting the decimal two places to the left})$$

(b) 1.75%

$$= \frac{1.75}{100}$$

$$= 0.0175$$

do the questions (b), (d) and (e) by yourself.

6 Find

(a) 15% of 500 Kg

$$= \frac{15}{100} \times 500 \text{ Kg}$$

$$= 15 \times 5$$

$$= 75 \text{ Kg}$$

(c) 50% of 12 30 minutes

(c) 20% of $\text{Rs } 200$

$$= \frac{20}{100} \times \text{Rs } 200$$

$$= 20 \times 2$$

$$= \text{Rs } 40.$$

do the questions (b), (d) and (e) by yourself.

7. Find the whole, if

(a) Let the whole be x

$$\therefore 25\% \text{ of } x = \text{Rs } 500$$

$$\Rightarrow \frac{25 \times x}{100} = 500$$

$$\Rightarrow 25x = 500 \times 100$$

$$\Rightarrow x = \frac{500 \times 100}{25} \quad (\text{dividing by } 5)$$

$$\Rightarrow x = \frac{20}{100} \times 100 \quad (\text{dividing by } 5)$$

$$\Rightarrow x = 20 \times 100$$

$$\Rightarrow x = 2000 \text{ Rs.}$$

(c) 50% of it is 30 minutes.
Let the whole be x

$$\Rightarrow \frac{50}{100} \text{ of } x = 30$$

$$\Rightarrow \frac{50}{100} \times x = 30$$

$$\Rightarrow 50x = 30 \times 100$$

$$\Rightarrow 50x = 3000$$

$$\Rightarrow x = \frac{3000}{50}$$

$$\Rightarrow x = \frac{60}{1} \quad (\text{dividing by } 5)$$

$$\Rightarrow x = 60 \text{ minutes}$$

$$\Rightarrow x = 1 \text{ hour.}$$

(8)

Total oranges = 500

rotten oranges = 55

$$\% \text{ of rotten oranges} = \frac{55}{500} \times 100$$

$$\left\{ \frac{\text{rotten oranges}}{\text{Total oranges}} \times 100 \right.$$

$$= \frac{55}{50}$$

(dividing by 5)

$$= 11\%$$

(9)

Basic price of tubelight = Rs 50

Vat applicable on tubelight = 12.5%

Vat applicable (in Rs) = 12.5% of Rs 50

{vat% of basic price}

$$= \frac{12.5}{100} \times 50$$

{converting % into fraction}

$$= \frac{12.5}{100} \times 50$$

{of changes to multiplication}

$$= \frac{12.5}{2}$$

{dividing by 5}

$$= 6.25 \text{ Rs.}$$

$$\left\{ \begin{array}{r} 2 \overline{) 125} \quad (62.5 \\ - 12 \downarrow \\ \hline 05 \\ \underline{4} \\ 10 \\ \underline{10} \\ \hline \end{array} \right.$$

\therefore The cost of tubelight = Basic price + Vat

$$= 50 + 6.25$$

$$= 56.25 \text{ Rs}$$

{shifting decimal one place left, as dividend is having decimal point after one digit}

$$\therefore 62.5 \rightarrow 6.25 \text{ Rs.}$$