



## FRACTIONAL VALUE

$$100\% = 1$$

$$50\% = \frac{1}{2}$$

$$\frac{1}{3} = 33\frac{1}{3}\% / 33.33\%$$

$$\frac{2}{3} = 66\frac{2}{3}\% / 66.66\%$$

$$\frac{1}{6} = 16\frac{2}{3}\% / 16.66\%$$

$$\frac{5}{6} = 83\frac{1}{3}\% / 83.33\%$$

$$\frac{1}{7} = 14.28\% \quad \frac{2}{7} = 28.56\% \quad \frac{3}{7} = 42.84\% \quad \frac{4}{7} = 57.14\%$$

$$\frac{1}{4} = 25\%$$

$$\frac{3}{4} = 75\%$$

$$\frac{1}{5} = 20\%$$

$$\frac{2}{5} = 40\%$$

$$\frac{3}{5} = 60\%$$

$$\frac{4}{5} = 80\%$$

$$\frac{1}{8} = 12.5\%$$

$$\frac{3}{8} = 37.5\%$$

$$\frac{5}{8} = 62.5\%$$

$$\frac{7}{8} = 87.5\%$$

$$\frac{1}{9} = 11.11\% / 11\frac{1}{9}\%$$

$$\frac{1}{11} = 9.09\%$$

$$\frac{7}{11} = 63.63\%$$

$$\frac{1}{12} = 8.33\%$$

$$\frac{5}{12} = 41.66\%$$

$$\frac{7}{12} = 58.33\%$$

$$\frac{11}{12} = 91.66\%$$

Q. In a cinema hall, sale of ticket increased by  $57\frac{1}{7}\%$  and price of ticket increased by  $16\frac{2}{3}\%$ . Calculate % change in revenue earn.

$$16\frac{2}{3}\% = +\frac{1}{6}$$

$$57\frac{1}{7}\% = +\frac{4}{7}$$

$$P_0 = 6$$

$$P_n = 7$$

$$S_0 = 7$$

$$S_n = 11$$

$$\frac{\text{Revenue}}{\text{Price} \times \text{Sale}}$$

$$\left. \begin{array}{l} R_0 = 42 \\ R_n = 77 \end{array} \right\} \xrightarrow{\text{change}} 35$$

$$\frac{35}{42} \times 100$$

$$= 83.33\%$$

Q. A number when increased by 21 becomes 137.5%.  
What is the no?

~~$100 + 37.5$~~

~~$100 + 37.5$~~

~~$x + \frac{3x}{8} = \frac{11x}{8}$~~

~~$\frac{11x}{8}$~~

$100 + 37.5$

$$\frac{3x}{8} = \frac{21}{7}$$

$$x = \frac{21 \times 8}{7} = 56$$

Q. A no. when increased by  $\frac{50}{3}\%$  becomes 4256.  
What is the no?

~~$\frac{50}{3}$~~

~~$\frac{1}{6}$~~

~~$4256$~~

$1 \rightarrow \text{the no.}$

$1 + \frac{1}{6} \rightarrow 4256$

$\frac{7}{6} \rightarrow 4256$

$1 \rightarrow \frac{4256 \times 6}{7}$

$= 3648$

Q. Find SI on 3000/- at  $6\frac{1}{4}\%$  p.a for a period 4th Feb 2009 to 18th Apr. 2009

P =

T = 4th Feb — 18th Apr =  $\begin{array}{r} 23 \\ 14 \\ \hline 37 \\ 31 \\ \hline 68 \end{array}$   $\begin{array}{r} 23 \\ 31 \\ 18 \\ \hline 73 \end{array}$

$3000 \times \frac{1}{16} \times \frac{73}{365}$

$= \frac{600}{3000} \times \frac{1}{16} \times \frac{73}{365}$

$3000 \times \frac{1}{80}$

$= 37.5 \times 100 = 3750/-$

~~18~~

Sq. upto 30.

Cubes upto 13.

Tables upto 20.

Fractional Eq.