

PERCENTAGE

Percentage प्रतिशत

↓
Per + Cent
↓
100

↓
प्रति + शत
↓
100

Sign → %

Percent ← $a\% = \frac{a}{b}$ → Fraction ($\frac{a}{b}$)
भिन्न

Percent to fraction (प्रतिशत से भिन्न)

$$a\% = \frac{a}{100}$$

$$+ 20\% = \frac{20}{100} = \frac{1}{5}$$

$$+ 75\% = \frac{75}{100} = \frac{3}{4}$$

$$+ 90\% = \frac{90}{100} = \frac{9}{10}$$

$$+ 16\frac{2}{3}\% = \frac{50}{3}\%$$

$$\downarrow$$

$$\frac{50}{3 \times 100} = \frac{1}{6}$$

$$+ 22\frac{2}{9}\% = \frac{200}{9}\%$$

$$\downarrow$$

$$\frac{200}{9 \times 100} = \frac{2}{9}$$

$$+ 12\frac{1}{2}\% = \frac{25}{2}\% = \frac{25}{2 \times 100} = \frac{1}{8}$$

$$\div 25\% = \frac{25}{100} = \frac{1}{4}$$

Half $\downarrow$

$$12\frac{1}{2}\% = \frac{1}{4 \times 2} = \frac{1}{8}$$

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

Half $\downarrow$

$$37\frac{1}{2}\% = \frac{3}{4 \times 2} = \frac{3}{8}$$

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

$3 \times \downarrow$ $\downarrow \times 3$

$$60\% = 3 \times \frac{1}{5} = \frac{3}{5}$$

$$\div 17\frac{1}{2}\% = \frac{7}{10 \times 4} = \frac{7}{40}$$

$2 \times \downarrow$ $\uparrow$

$$35\%$$

$2 \times \downarrow$

$$70\% = \frac{7}{10}$$

$100\% = \frac{100}{100} = 1$

$$\div 200\% = 2$$

$$\div 300\% = 3$$

$$\div 120\% = \frac{120}{100} = \frac{6}{5}$$

$\downarrow$

$$100\% + 20\%$$

$$\left(1 + \frac{1}{5}\right) = \frac{6}{5}$$

$$\div 116\frac{2}{3}\% = 100\% + 16\frac{2}{3}\%$$

$\downarrow$

$$\left(1 + \frac{1}{6}\right) = \frac{7}{6}$$

$$\div 212\frac{1}{2}\% = 200\% + 12\frac{1}{2}\%$$

$$(2 + \frac{1}{8}) = \frac{17}{8}$$

Fraction to Percent (भिन्न से प्रतिशत)

$$\frac{a}{b} \rightarrow \frac{a}{b} \times 100\%$$

$$\div \frac{1}{2} \Rightarrow \frac{1}{2} \times 100^{\frac{50}{}} = 50\%$$

$$\div \frac{1}{9} \Rightarrow \frac{1}{9} \times 100 = \frac{100}{9}\% = 11\frac{1}{9}\%$$

$$\div \frac{1}{11} \Rightarrow \frac{1}{11} \times 100 = \frac{100}{11}\% = 9\frac{1}{11}\%$$

Fraction

Percentage Equivalent

- $\frac{1}{2}$ _____ 50%
- $\frac{1}{3}$ _____ $33\frac{1}{3}\% = 33.33\%$
- $\frac{1}{4}$ _____ 25%
- $\frac{1}{5}$ _____ 20%
- $\frac{1}{6}$ _____ $16\frac{2}{3}\% = 16.66\% = 16.67\%$
- $\frac{1}{7}$ _____ $14\frac{2}{7}\% = 14.28\%$
- $\frac{1}{8}$ _____ $12\frac{1}{2}\% = 12.50\%$
- $\frac{1}{9}$ _____ $11\frac{1}{9}\% = 11.11\%$
- $\frac{1}{10}$ _____ 10%
- $\frac{1}{11}$ _____ $9\frac{1}{11}\% = 9.09\%$
- $\frac{1}{12}$ _____ $8\frac{1}{3}\% = 8.33\%$
- $\frac{2}{3}$ _____ $66\frac{2}{3}\%$
- $\frac{2}{5}$ _____ 40%

- $\frac{3}{5}$ ————— 60%
- $\frac{4}{5}$ ————— 80%
- $\frac{3}{8}$ ————— $37\frac{1}{2}\%$
- $\frac{5}{8}$ ————— $62\frac{1}{2}\%$
- $\frac{5}{4}$ ————— 125%
- $\frac{7}{8}$ ————— $87\frac{1}{2}\%$

• a का b%
b% of a

• का/of = Multiply

$$= a \times \frac{b}{100} = \frac{a \times b}{100} \Rightarrow b \times \frac{a}{100} = b \text{ का } a\%$$

$$\boxed{a \text{ का } b\% = b \text{ का } a\%}$$

• 100 का 20% = 20 का 100% = 20

$$100 \times \frac{1}{5} = 20$$

NOTE किसी भी संख्या का 100% वही संख्या है।

⇒ 100 एक ऐसी संख्या है जिसका कितना भी प्रतिशत अपनी खुद की Value के बराबर होता है।

- 100 का 17% = 17
- 100 का 57.25% = 57.25

SOME IMP. CALCULATION TRICKS

• 1000 का $\boxed{10\%}$ = $1000 \times \frac{1}{10} = 100$

$$100 \cancel{00} = 100$$

• 237 का 10% = 23.7

• 43.235 का 10%
= 4.3235

ROJGAR WITH ANKIT

- 4392 का 20%.

$$\begin{array}{c} \wedge \\ 10\% \times 2 \end{array}$$

$$439.2 \times 2$$

$$878.4$$

- 93.25 का 70%.

$$\begin{array}{c} \wedge \\ 10\% \times 7 \end{array}$$

$$9.325 \times 7$$

$$65.275$$

- 1000 का 1%.

$$10.00 = 10$$

- 692 का 1%.

$$6.92 = 6.92$$

- 192.5 का 7%.

$$\begin{array}{c} \wedge \\ 1\% \times 7 \end{array}$$

$$1.925 \times 7$$

$$13.475$$

- 10 का 1%.

$$= 0.10$$