

Foundation Batch

MATHS

Percentage (प्रतिशत)

LIVE 10-06-2024 07:00PM



Percentage प्रतिशत

↓
Per + Cent
↓
100

↓
प्रति + शत
|
100

Sign → %

Percent ← $a\% = \frac{a}{100}$ → fraction $\left(\frac{a}{b}\right)$
भिन्न

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

$$\downarrow$$

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

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

$$\downarrow$$

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

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

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

Percent to fraction
प्रतिशत से भिन्न

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

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

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

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

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

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

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

3x ↓ x3 ↓
 $60\% = 3 \times \frac{1}{5} = \frac{3}{5}$

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

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

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

2 ↓
35%
2x ↓
70% = $\frac{7}{10}$

↑

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



$$100\% + 20\%$$

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

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



$$200\% = 2 \checkmark$$

$$300\% = 3$$

ex

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



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

$$212\frac{1}{2}\% =$$



$$200\% + 12\frac{1}{2}\%$$

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

Fraction to Percent
भिन्न से प्रतिशत

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

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

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

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

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



Fraction	Percentage Equivalent
$\frac{2}{3}$	$66\frac{2}{3}\%$
$\frac{2}{5}$	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%
$\frac{2}{5}$	40%
$\frac{7}{8}$ -	$87\frac{1}{2}\%$

a का $b\%$

$b\%$ of a

का $\% = \text{multiply}$

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

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

$$100 \text{ का } 20\% = 20 \text{ का } 100\% = 20$$

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

Note = किसी भी संख्या का 100% वही संख्या है,

↳ 100 रजक रसी संख्या हैं जिसका कितना भी
प्रतिशत अपनी भुके की value के बराबर
होना है

$$100 \text{ का } 17\% = 17$$

$$100 \text{ का } 57.25\% = 57.25$$

Some Imp. Calculation tricks

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

$$1000 \div 10 = 100$$

$$237 \text{ का } 10\% = 23.7$$

$$43.2 \text{ का } 10\%$$

$$= \underline{\underline{43.235}}$$

$$4392 \text{ का } 20\%$$

$$439.2 \times 2$$

$$\underline{\underline{878.4}}$$

$$10\% \times 2$$

93.25 का 70%
10% x 7

$$9.325 \times 7$$

$$\underline{\underline{65.275}}$$

1000 का 1%

$$10.000 = \underline{\underline{10}}$$

692 का 1%

$$6.92 = \underline{\underline{6.92}}$$

192.5 का 7%
 $1\% \times 7$

$$1.925 \times 7$$

$$\underline{13.475}$$

$$.10 \quad 1\%$$

$$= \underline{\underline{0.10}}$$



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TYPE - I



1. 50% of 500 = _____ of 2500

500 का 50% = 2500 का _____

H.W

(a) 30%

(b) 40%

(c) 20%

(d) 10%