



DELHI POLICE 2025
CONSTABLE HCM AWO/TPO DRIVER

यकीन बैच

MATHS



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Percentage
(प्रतिशत)



LIVE
STREAMING

21-03-2025 11:00 AM

Percentage }
Profit & Loss }
Discount } Unit
SI
CI

$$\frac{9:00}{NTPC} \Rightarrow \underline{\underline{CI}}$$

Percentage - प्रतिशत :: ¹⁰⁰

% $\rightarrow$ भिन्न (fraction) ¹⁰⁰

$1\% = \frac{1}{100}$	$4\% = \frac{4}{100} = \frac{1}{25}$
$2\% = \frac{2}{100} = \frac{1}{50}$	$5\% = \frac{5}{100} = \frac{1}{20}$
$3\% = \frac{3}{100}$	

$\xrightarrow{20\%}$

$$6\frac{2}{3}\% = \frac{20}{3}\% = \frac{20}{3 \times 100} = \frac{1}{15}$$

$$\begin{aligned} &\approx 11\frac{1}{9}\% = \frac{100}{9 \times 100} = \frac{1}{9} \\ &\approx 12\frac{1}{2}\% = \frac{25}{2 \times 100} = \frac{1}{8} \\ &\approx 14\frac{2}{7}\% = \frac{100}{7 \times 100} = \frac{1}{7} \\ &\approx 16\frac{2}{3}\% = \frac{50}{3 \times 100} = \frac{1}{6} \end{aligned}$$

$$9\frac{1}{9}\% = \frac{41}{9 \times 100} = \frac{41}{450}$$

$\frac{4}{205}$
 $10 \div = \frac{1}{10}, \frac{10}{100}$
 $15 \div = \frac{3}{20}$
 $20 \div = \frac{1}{5}$
 $25 \div = \frac{1}{4}$
 $11 \frac{1}{9} \div \frac{1}{9}$
 $22 \frac{2}{9} \div = \frac{2}{9}$
 $14 \frac{2}{7} \div = \frac{1}{7}$
 $28 \frac{4}{7} \div = \frac{2}{7}$
 $56 \frac{8}{7} \div = \frac{1}{7}$
 $56 \frac{1}{7}$

$30 \div = \frac{3}{10}$
 $33 \frac{1}{3} \div = \frac{1}{3}$
 $35 \div = \frac{7}{20}$
 $40 \div = \frac{2}{5}$
 $42 \frac{6}{7} \div = \frac{3}{7}$
 $45 \div = \frac{9}{20}$
 $50 \div = \frac{1}{2}$

$57 \frac{1}{7} \div = \frac{4}{7}$
 $60 \div = \frac{3}{5}$
 $66 \frac{2}{3} \div = \frac{2}{3}$
 $44 \frac{4}{9} \div = \frac{4}{9}$
 $55 \frac{5}{9} \div = \frac{5}{9}$
 $75 \div = \frac{3}{4}$

$5 \div = \frac{5}{10000}$
 $\frac{1 \times 2}{2010}$

$$\boxed{\frac{0}{0} \rightarrow \frac{100}{100}}$$

 $\Rightarrow$

$$\sqrt{\frac{4 \cdot 1}{100}}$$

$$\sqrt{\frac{4}{100}}$$

$$\frac{2}{10} = \underline{\underline{0.2}}$$

$$\cancel{0.2} / \cancel{0.2}$$

$$125 \div 0 = \frac{1}{4}$$

पहले 4 अब 5

$$30 \div 0 = \frac{3}{10}$$

भाभी Rahul
10 unit 13 unit

$$12 \div 0 = \frac{1}{8}$$

l b
9 8

$$\begin{array}{c|c|c}
 5\% = \frac{1}{20} & 12\frac{1}{2}\% = \frac{1}{8} \times 2 & 25\% = \frac{25}{100} = \frac{1}{4} \\
 25\% = \frac{1}{4} & \downarrow \times 2 & \\
 25\% = \frac{1}{4} & 25\% = \frac{1}{4} &
 \end{array}$$

Comparison:

$$11 \xrightarrow{\times 2} 22$$

$$5 \xrightarrow{\times 4} 20$$

$$8 \xrightarrow{4} 32$$

$$2 \xrightarrow{\times 1.5} 3$$

$$11\frac{1}{9} \xrightarrow{\times 2} 22\frac{2}{9}$$

$$11\frac{1}{9} \times 2 \mid 11\frac{1}{9} \times 3 = 33\frac{2}{3}$$

$$22\frac{2}{9}$$

$$\underbrace{14\frac{2}{7}} \times 6 =$$

$$84\frac{12}{7}$$

$$84 + \left[1\frac{5}{7}\right]$$

$$\textcircled{85\frac{5}{7}}$$

$$\underbrace{16\frac{2}{3}} \times 9 = 144\frac{18}{3}$$

$$= \underline{\underline{150}}$$



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Fraction (भिन्न)	Percentage (प्रतिशत)	Decimal Value (दशमलव मान)
1	100%	
$\frac{1}{2}$	50%	
$\frac{3}{2}$	150%	
$\frac{1}{3}$	$33\frac{1}{3}\%$	33.33%
$\frac{2}{3}$	$66\frac{2}{3}\%$	66.67%
$\frac{4}{3}$	$133\frac{1}{3}\%$	133.33%
$\frac{1}{4}$	25%	



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$\frac{3}{4}$	75%	
$\frac{5}{4}$	125%	
$\frac{1}{5}$	20%	
$\frac{1}{6}$	$16\frac{2}{3}\%$	16.67%
$\frac{5}{6}$	$83\frac{1}{3}\%$	83.33%
$\frac{7}{6}$	$116\frac{2}{3}\%$	116.67%
$\frac{1}{7}$	$14\frac{2}{7}\%$	14.28%



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Fraction (भिन्न)	Percentage (प्रतिशत)	Decimal Value (दशमलव मान)
$\frac{2}{7}$	$28\frac{4}{7}\%$	28.57%
$\frac{3}{7}$	$42\frac{6}{7}\%$	42.85%
$\frac{4}{7}$	$57\frac{1}{7}\%$	57.1428%
$\frac{5}{7}$	$71\frac{3}{7}\%$	71.4285%
$\frac{6}{7}$	$85\frac{5}{7}\%$	85.7142%
$\frac{8}{7}$	$114\frac{2}{7}\%$	114.28%



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$\frac{1}{8}$	$12\frac{1}{2}\%$	12.5%
$\frac{3}{8}$	$37\frac{1}{2}\%$	37.5%
$\frac{5}{8}$	$62\frac{1}{2}\%$	62.5%
$\frac{7}{8}$	$87\frac{1}{2}\%$	87.5%
$\frac{9}{8}$	$112\frac{1}{2}\%$	112.5%
$\frac{1}{9}$	$11\frac{1}{9}\%$	11.11%
$\frac{2}{9}$	$22\frac{2}{9}\%$	22.22%
$\frac{4}{9}$	$44\frac{4}{9}\%$	44.44%
$\frac{5}{9}$	$55\frac{5}{9}\%$	55.55%



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Fraction (भिन्न)	Percentage (प्रतिशत)	Decimal Value (दशमलव मान)
$\frac{7}{9}$	$77\frac{7}{9}\%$	77.77%
$\frac{8}{9}$	$88\frac{8}{9}\%$	88.88%
$\frac{10}{9}$	$111\frac{1}{9}\%$	111.11%
$\frac{1}{10}$	10%	
$\frac{1}{11}$	$9\frac{1}{11}\%$	9.09%
$\frac{5}{11}$	$45\frac{5}{11}\%$	45.45%



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$\frac{7}{11}$	$63\frac{7}{11}\%$	63.63%
$\frac{10}{11}$	$90\frac{10}{11}\%$	90.90%
$\frac{1}{12}$	$8\frac{1}{3}\%$	8.33%
$\frac{5}{12}$	$41\frac{2}{3}\%$	41.67%
$\frac{7}{12}$	$58\frac{1}{3}\%$	58.33%
$\frac{11}{12}$	$91\frac{2}{3}\%$	91.67%
$\frac{1}{13}$	$7\frac{9}{13}\%$	7.69%
$\frac{1}{14}$	$7\frac{1}{7}\%$	7.14%
$\frac{1}{15}$	$6\frac{2}{3}\%$	6.67%



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Fraction (भिन्न)	Percentage (प्रतिशत)	Decimal Value (दशमलव मान)
$\frac{4}{15}$	$26\frac{2}{3}\%$	26.67%
$\frac{1}{16}$	$6\frac{1}{4}\%$	6.25%
$\frac{3}{16}$	$18\frac{3}{4}\%$	18.75%
$\frac{1}{17}$	$5\frac{15}{17}\%$	5.88%
$\frac{1}{18}$	$5\frac{5}{9}\%$	5.55%
$\frac{1}{19}$	$5\frac{5}{19}\%$	5.26%
$\frac{1}{20}$	5%	



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$\frac{1}{21}$	$4\frac{16}{21}\%$	4.76%
$\frac{1}{22}$	$4\frac{6}{11}\%$	4.5454%
$\frac{13}{22}$	$59\frac{1}{11}\%$	59.09%
$\frac{1}{23}$	$4\frac{8}{23}\%$	4.34%
$\frac{1}{24}$	$4\frac{1}{6}\%$	4.167%
$\frac{1}{25}$	4%	
$\frac{24}{35}$	$68\frac{4}{7}\%$	68.5714%
$\frac{13}{36}$	$36\frac{1}{9}\%$	36.11%



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TYPE -1 BASIC



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1. What will be 15 percent of ₹ 34?

₹ 34 का 15 प्रतिशत क्या होगा?

Delhi Police Head Con. (AWO & TPO) 27 oct 2022

(a) ₹ 3.40

(b) ₹ 3.75

(c) ₹ 4.50

☒ (d) ₹ 5.10

$$\frac{34 \times 15}{100}$$

$$\frac{510}{100}$$

$$\boxed{5.1}$$



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2. 68 is 25% of which of the following numbers?

68, निम्न में से किस संख्या का 25% है?

(a) 272

(b) 204

(c) 285

(d) 136

$$A \times \frac{1}{4} = 68 \times 4$$
$$A = 272$$

$$\frac{1}{4}$$



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$$1\text{kg} = 1000\text{g}$$

3. What percentage of 4.5 kg is 18 gm?

18 ग्राम, 4.5 किग्रा का कितने प्रतिशत है?

[DP Const., 01/12/2020 Shift-1]

$$4500\text{g} \times \frac{A}{100} = 18\text{g}$$
$$A = \frac{18 \times 100}{4500}$$
$$= 0.4\%$$

- (a) 0.04%
- (b) 0.4% ✓
- (c) 4%
- (d) 0.004%

$$\frac{18}{4500} \times 100$$
$$= \frac{18 \times 100}{4500}$$
$$= 0.4\%$$



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4. 8% of 5 litre is :
5 लीटर का 8% है :
- (a) 0.4 ml
 - (b) 400 ml
 - (c) 40 ml
 - (d) 4 ml