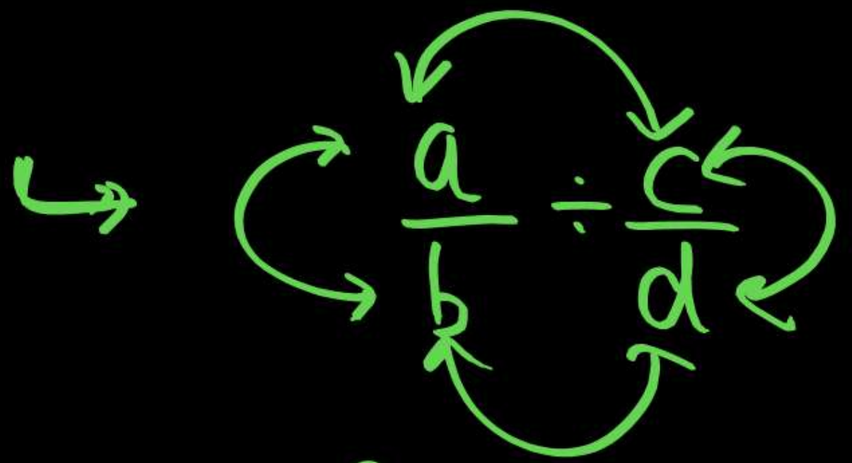
Calculation का महाकुंभ बैच

Fraction

Fraction Division

$+ \; - \; \times \; \div$



$\frac{a}{b} \div \frac{c}{d}$

Answer $\frac{ad}{bc}$

Fraction Division

Type-1

$\frac{2}{5} \div 3$

(a) $\frac{6}{5}$

(b) $\frac{2}{15}$

B

(c) 7.5

(d) $\frac{2}{15}$

$$\frac{8}{9} \div 12$$

(a) $\frac{4}{27}$

(b) $\frac{2}{27}$

(c) $\frac{32}{3}$

(d) 6

$\frac{14}{5} \div 3$

(a) $\frac{42}{5}$

(b) $\frac{2}{3}$

(c) $\frac{15}{14}$

(d) $\frac{14}{15}$

$$\frac{24}{7} \div 2$$

(a) $\frac{7}{12}$

(b) $1\frac{5}{7}$

(c) $1\frac{3}{7}$

(d) $6\frac{6}{7}$

$$\frac{96}{13} \div 2$$

(a) $\frac{21}{26}$

(b) $2\frac{4}{13}$

(c) $3\frac{9}{13}$

(d) $5\frac{5}{13}$

$\frac{127}{14} \div 5$

(a) $2\frac{57}{70}$

(b) $\frac{7}{15}$

(c) 2.4

(d) $1\frac{57}{70}$

4 $\frac{16}{17} \div 4$

(a) $3\frac{13}{17}$

(b) $\frac{5}{17}$

(c) $\frac{4}{17}$

(d) $2\frac{4}{17}$

$\frac{17}{16} \div 3$

(a) $\frac{17}{48}$

(b) $2\frac{14}{17}$

(c) $\frac{14}{17}$

(d) $\frac{17}{42}$

$$\frac{114}{5} \div 10$$

(a) $2\frac{4}{15}$

(b) $5\frac{4}{20}$

(c) $2\frac{7}{25}$

(d) $2\frac{6}{25}$

$\frac{13}{4} \div 7$

(a) $\frac{13}{64}$

(b) $5\frac{3}{13}$

(c) $\frac{13}{28}$

(d) $\frac{17}{52}$

$\frac{17}{18} \div 3$

(a) $\frac{17}{54}$

(b) $4\frac{16}{17}$

(c) $\frac{7}{17}$

(d) $\frac{12}{17}$

$$\frac{100}{11} \div 7$$

(a) $\frac{33}{7}$

(b) $1\frac{23}{77}$

(c) $1\frac{3}{8}$

(d) $\frac{4}{11}$

$$\frac{200}{9} \div 4$$

(a) $\frac{800}{9}$

(b) $9\frac{5}{90}$

(c) $5\frac{5}{9}$

(d) 200

15

$$\frac{300}{13} \div 20$$

(a) $1\frac{2}{13}$

(b) $\frac{13}{15}$

(c) 130

(d) $\frac{13}{30}$

$$\frac{150}{19} \div 10$$

(a) $\frac{15}{21}$

(b) $\frac{7}{19}$

(c) $\frac{15}{19}$

(d) $\frac{19}{15}$

Type-2

$$\frac{9}{4} \div \frac{8}{13}$$

(a) $4\frac{21}{32}$

(b) $\frac{18}{13}$

(c) $3\frac{21}{32}$

(d) 2

$$\frac{6}{7} \div \frac{14}{23}$$

(a) $1\frac{20}{49}$

(b) $\frac{23}{12}$

(c) 46

(d) $\frac{84}{161}$

$$\frac{4}{5} \div \frac{13}{15}$$

(a) $\frac{13}{12}$

(b) $\frac{12}{13}$

(c) 4.5

(d) $\frac{15}{13}$

$$\frac{1}{3} \div \frac{1}{4}$$

(a) $\frac{3}{4}$

(b) 12

(c) $\frac{1}{12}$

(d) $1\frac{1}{3}$

$$\frac{33}{7} \div \frac{2}{5}$$

(a) $\frac{66}{35}$

(b) $11\frac{3}{7}$

(c) $11\frac{11}{14}$

(d) $11\frac{1}{14}$

$$\frac{9}{4} \div \frac{13}{8}$$

(a) $\frac{5}{13}$

(b) $\frac{13}{18}$

(c) $1\frac{5}{13}$

(d) $\frac{7}{8}$

$$\frac{200}{3} \div \frac{3}{5}$$

(a) 360

(b) $111\frac{1}{9}$

(c) $33\frac{4}{5}$

(d) $\frac{1}{30}$

$$\frac{16}{13} \div \frac{5}{7}$$

(a) 2

(b) $1\frac{47}{65}$

(c) $\frac{47}{65}$

(d) $\frac{65}{112}$

$$\frac{19}{7} \div \frac{4}{3}$$

(a) $\frac{21}{76}$

(b) $\frac{4}{19}$

(c) $2\frac{1}{28}$

(d) 2

$$\frac{71}{8} \div \frac{1}{11}$$

(a) $\frac{71}{88}$

(b) $\frac{11}{568}$

(c) $97\frac{5}{8}$

(d) $\frac{8}{781}$

$$\frac{4}{5} \div \frac{13}{15}$$

(a) $\frac{13}{12}$

(b) $\frac{12}{13}$

(c) 4.5

(d) $\frac{15}{13}$

$$\frac{1}{3} \div \frac{1}{4}$$

(a) $\frac{3}{4}$

(b) 12

(c) $\frac{1}{12}$

(d) $1\frac{1}{3}$

$$\frac{33}{7} \div \frac{2}{5}$$

(a) $\frac{66}{35}$

(b) $11\frac{3}{7}$

(c) $11\frac{11}{14}$

(d) $11\frac{1}{14}$

$$\frac{9}{4} \div \frac{13}{8}$$

(a) $\frac{5}{13}$

(b) $\frac{13}{18}$

(c) $1\frac{5}{13}$

(d) $\frac{7}{8}$

$$\frac{200}{3} \div \frac{3}{5}$$

(a) 360

(b) $111\frac{1}{9}$

(c) $33\frac{4}{5}$

(d) $\frac{1}{30}$

$$\frac{16}{13} \div \frac{5}{7}$$

(a) 2

(b) $1\frac{47}{65}$

(c) $\frac{47}{65}$

(d) $\frac{65}{112}$

$$\frac{19}{7} \div \frac{4}{3}$$

(a) $\frac{21}{76}$

(b) $\frac{4}{19}$

(c) $2\frac{1}{28}$

(d) 2

$$\frac{71}{8} \div \frac{1}{11}$$

(a) $\frac{71}{88}$

(b) $\frac{11}{568}$

(c) $97\frac{5}{8}$

(d) $\frac{8}{781}$

$$\frac{5}{12} \div \frac{13}{14}$$

(a) 210

(b) $\frac{35}{78}$

(c) $2\frac{8}{35}$

(d) $\frac{7}{6}$

$$\frac{25}{8} \div \frac{4}{3}$$

(a) $2\frac{11}{32}$

(b) $\frac{25}{32}$

(c) $6\frac{9}{11}$

(d) 37.5

$$\frac{16}{17} \div \frac{4}{5}$$

(a) $\frac{17}{20}$

(b) $2\frac{6}{17}$

(c) $1\frac{3}{17}$

(d) $\frac{17}{40}$

$$\frac{8}{9} \div \frac{12}{5}$$

(a) $\frac{20}{27}$

(b) $2\frac{7}{10}$

(c) $5\frac{2}{5}$

(d) $\frac{10}{27}$

$$\frac{114}{7} \div \frac{3}{2}$$

(a) $10\frac{5}{7}$

(b) $10\frac{6}{7}$

(c) $11\frac{6}{7}$

(d) $\frac{7}{8}$

Advance Calculation

Chapter-2

Multiplication's Magic (गुणा के मैजिक)

- Arrow Method
- Cross Method (2 × 2)
- 0.5, 0.25, 0.75 और 0.125 की जबरदस्त Multiplication
- Multiplication of 5^n (5, 25, 125, ...)
- 50 का Special Multiplication
- 9, 99, 999, ... से गुणा (Multiplication)
- 101 का Multiplication Magic
- 1001 का Multiplication Magic
- Special Types of Multiplication
- Multiplication का Successive Method (बड़े काम की चीज)
- Exam Calculation के 4 मूलमंत्र

Type – 13 (When the last digit of both numbers is 5) how to multiply = ?

65×45

$6 \times 4 + \frac{6+4}{2} = 29$ → 2925

Even Sum

$\left(\text{Product} + \frac{\text{Sum}}{2}\right) 25$

Type – 13 (When the last digit of both numbers is 5) how to multiply = ?

25×85

=

Type – 13 (When the last digit of both numbers is 5) how to multiply = ?

35×65

$6 \times 3 + \frac{6+3-1}{2}$

2275

odd sum

(Product + $\frac{\text{sum}-1}{2}$) 75

Type – 13 (When the last digit of both numbers is 5) how to multiply = ?

$$55 \times 85$$

4675

75×95

7125

35×65

2275

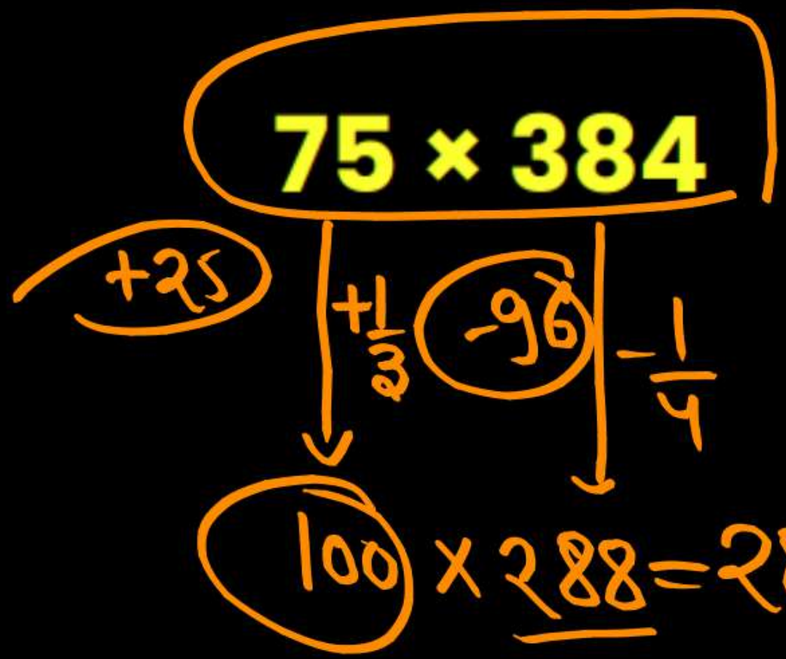
Multiplication of 1 Successive Method

$$P = A \times B$$

$$\text{Product same} = \left(\frac{n+1}{n}\right) \times \left(\frac{n}{n+1}\right)$$

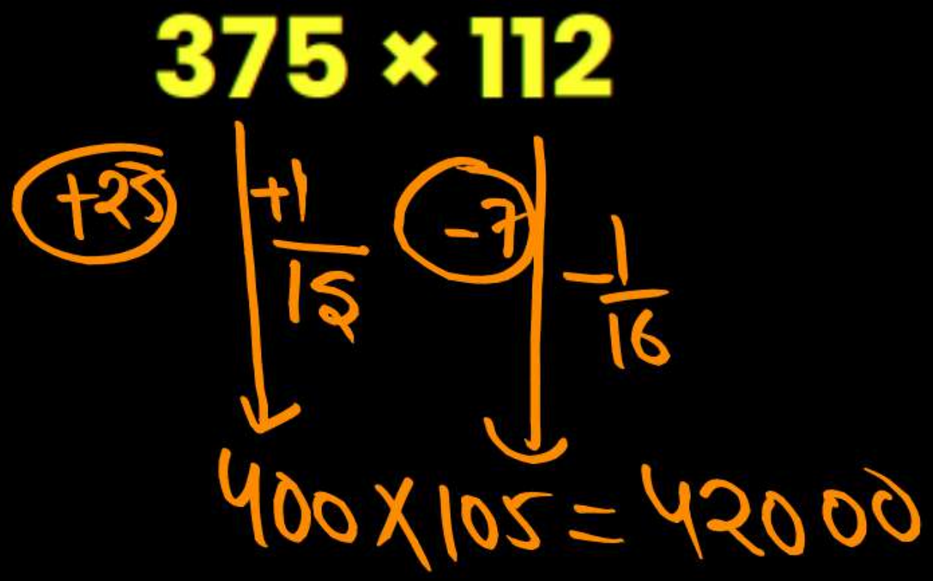
$$\uparrow \frac{1}{n} = \frac{1}{n+1} \downarrow$$

- **Multiplication का Successive Method (बड़े काम की चीज)**



$$\uparrow \frac{1}{n} = \frac{1}{n+1} \downarrow$$

- **Multiplication का Successive Method (बड़े काम की चीज)**



- **Multiplication का Successive Method (बड़े काम की चीज)**

$$36 \times 520$$

$$(+4) \;\; +\frac{1}{9} \;\; (-8) \;\; -\frac{1}{10}$$

$40 \times 468 = 18720$ Ans

- **Multiplication का Successive Method (बड़े काम की चीज)**

825×972

$+75 \quad +\frac{1}{11} \quad -81 \quad -\frac{1}{12}$

$900 \times 891 = 801900$

- **Multiplication का Successive Method (बड़े काम की चीज)**

~~125~~
~~2125~~
1

2125 × 2214

$-125 \mid \frac{-1}{17} \quad 13 \mid +\frac{1}{16}$

2000

Check

$A \times B$

$- \quad + \quad = \underline{\text{And. Same}}$

Use of Approximation in this method

88×564

$+12$ | $+\frac{1}{7}$ -70 | $-\frac{1}{8}$

$100 \times 499 = 49900$

3 1/4 ki Aws

49632 Accurate

Use of Approximation in this method

$$123 \times 537$$

$-23 \mid -\frac{1}{5} \quad +134 \mid +\frac{1}{4}$

$100 \times 671 = 67100$ $\quad$ 66051

Use of Approximation in this method

$$968 \times 472$$

$+32 \mid +\frac{1}{30} \quad -15 \mid -\frac{1}{31}$

$1000 \times 457 = 457000$

Accurate

456896