

Calculation का महानुक्रम बैच

Fraction

Type-4

$$\left(14\frac{2}{7}\right) \times \frac{5}{14} = ?$$

$$5 + \frac{5}{49}$$

(A)

(a) $5\frac{5}{49}$

(b) $14\frac{5}{49}$

(c) $7\frac{5}{49}$

(d) $10\frac{5}{49}$

$$\left(22\frac{2}{9}\right) \times \frac{5}{11} = ?$$

(a) $20\frac{10}{99}$

(b) $11\frac{10}{99}$

✓ (c) $10\frac{10}{99}$

(d) $22\frac{10}{99}$

$$10\frac{10}{99}$$

$$\left(44\frac{4}{9}\right) \times \frac{5}{11} = ?$$

(a) $25\frac{10}{99}$

(b) $22\frac{20}{99}$

(c) $16\frac{20}{99}$

~~(d)~~ $20\frac{20}{99}$

$$\left(83\frac{1}{3}\right) \times \frac{120}{83} = ?$$

(a) $144\frac{16}{83}$

✓ (b) $120\frac{40}{83}$ (B)

(c) $132\frac{20}{83}$

(d) $83\frac{40}{83}$

$$\left(102\frac{4}{7}\right) \times \frac{5}{17} = ?$$

~~(a) $30\frac{20}{119}$~~

(b) $102\frac{20}{119}$

(c) $51\frac{20}{119}$

(d) $60\frac{20}{119}$

$30\frac{20}{119}$

$$\left(112\frac{5}{8}\right) \times \frac{5}{7} = ?$$

$$80\frac{25}{56}$$

✓ ~~(a)~~ $80\frac{25}{56}$

(b) $16\frac{25}{56}$

(c) $32\frac{25}{56}$

(d) $40\frac{25}{56}$

$$\left(28\frac{11}{15}\right) \times \frac{5}{14} = ?$$

$$10\frac{11}{42}$$

(a) $14\frac{11}{42}$

(b) $28\frac{11}{42}$

(c) $7\frac{11}{42}$

✓ (d) $10\frac{11}{42}$

(D)

$$\left(42\frac{2}{7}\right) \times \frac{7}{14} = ?$$

(a) $21\frac{2}{7}$

✓ (b) $21\frac{1}{7}$

(c) $42\frac{1}{14}$

(d) $42\frac{1}{7}$

$21\frac{1}{7}$

$$\left(93\frac{11}{12}\right) \times \frac{3}{31} = ?$$

$$9\frac{11}{124}$$

$$(a) 9\frac{11}{31}$$

$$\checkmark (b) 9\frac{11}{124} \quad \frac{1}{9}$$

$$(c) 93\frac{11}{31}$$

$$(d) 93\frac{11}{124}$$

$$\left(23\frac{3}{7}\right) \times \frac{11}{23} = ?$$

(a) $11\frac{22}{161}$

(b) $11\frac{23}{161}$

✓ (c) $11\frac{33}{161}$

(d) $23\frac{11}{161}$

$$11\frac{33}{161}$$

$$\left(50\frac{5}{11}\right) \times \frac{23}{10} = ?$$

$$\cancel{50}^5 \times \frac{23}{\cancel{10}_2} + \frac{\cancel{8}}{11} \times \frac{23}{\cancel{10}_2}$$

$$115 + \frac{23}{22}$$

$$116 + \frac{1}{22}$$

$$\checkmark \text{ (a) } 116\frac{\cancel{5}}{\cancel{110}}\frac{\cancel{1}}{22}$$

(A)

$$\text{(b) } 116\frac{1}{110}$$

$$\text{(c) } 110\frac{1}{110}$$

$$\text{(d) } 115\frac{5}{110}$$

$$\left(\frac{12}{3} \right) \times \frac{7}{12} = 7$$

$$7 \frac{7}{32}$$

Type-5

Fraction

Addition & Subtraction

$$\frac{1}{5} + \frac{1}{15} = \frac{3+1}{15} = \frac{4}{15}$$

$$\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$$

$$\frac{1}{2} + \frac{1}{3} = \frac{5}{6}$$

$$\frac{1}{5} + \frac{1}{10} = \frac{3}{10}$$

$$\frac{2+1}{10} = \frac{3}{10}$$

$$\frac{2}{7} + \frac{1}{4} = \frac{15}{28}$$

$$\frac{3}{11} + \frac{2}{5} = \frac{37}{55}$$

$$\frac{1}{17} + \frac{1}{5} = \frac{22}{85}$$

$$\frac{1}{5} + \frac{1}{2} = \frac{7}{10}$$

$$\frac{1}{18} + \frac{1}{9} = \frac{3}{18} = \frac{1}{6} \checkmark$$

$$\frac{1}{6} + \frac{2}{7}$$

$$\frac{19}{42}$$

$$\frac{3}{4} + \frac{5}{7} = \frac{41}{28}$$

$$\frac{1}{8} - \frac{1}{9} = \frac{1}{72}$$

$$\frac{1}{3} - \frac{1}{5} = \frac{2}{15}$$

$$\frac{2}{7} - \frac{1}{5} = \frac{3}{35}$$

$$\frac{1}{10} - \frac{1}{15} = \frac{1}{30}$$

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$$

$$\frac{13}{12}$$

$$\frac{1}{3} + \frac{1}{4} + \frac{1}{5}$$

$$\frac{47}{60}$$

$$\frac{3}{5} \times \frac{2}{7} = \frac{11}{35}$$

$$\frac{6}{11} \times \frac{2}{13} = \frac{12}{143}$$

$$\frac{1}{2} + \frac{1}{3} - \frac{1}{4}$$

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

$$\frac{2}{3} + \frac{1}{3} - \frac{6}{7}$$

$\frac{1}{7}$

$$\frac{1}{4} + \frac{1}{5} - \frac{1}{6}$$

$$\frac{17}{60}$$

$$\frac{2}{14} + \frac{2}{14} - \frac{2}{42} = \frac{3}{14}$$

$$\frac{1}{5} + \frac{1}{15} + \frac{1}{30}$$

$$\frac{9}{30} = \frac{3}{10}$$

$$\frac{1}{8} + \frac{1}{4} - \frac{1}{16}$$

$$\frac{5}{16}$$

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 – 9 (Multiplication of 2 consecutive numbers)

$$\underline{16 \times 17}$$

$$16^2 + 16 = \underline{272}$$

$$n(n+1) = n^2 + n$$

$$22 \times 23 = \underline{506}$$

Type – 9 (Multiplication of 2 consecutive numbers)

$$43 \times 44$$

$$\begin{array}{r} 1849 \\ 43 \\ \hline 1892 \end{array}$$

Type – 9 (Multiplication of 2 consecutive numbers)

$$82 \times 83$$

$$\begin{array}{r} 6724 \\ 82 \\ \hline 6806 \end{array}$$

Type – 9 (Multiplication of 2 consecutive numbers)

$$97 \times 98$$

$$\begin{array}{r} 9409 \\ 97 \\ \hline 9506 \end{array}$$

Type – 10 (Multiplication of two consecutive of odd/even number)

$$23 \times 25$$

$$24^2 - 1 = 575$$

$$\begin{aligned}n(n+2) &= n^2 + 2n \\ &= (n+1)^2 - 1\end{aligned}$$

Type – 10 (Multiplication of two consecutive of odd/even number)

$$24 \times 26$$

↓

$$25^2 - 1$$

$$624$$

Type – 10 (Multiplication of two consecutive of odd/even number)

$$26 \times 28$$

$$\begin{array}{c} 27^2 \\ \downarrow \\ 728 \end{array}$$

$$51 \times 53$$



$$52^2 - 1$$

$$2703$$

Type – 11

21×31

$\begin{array}{r} \times \\ 21 \\ \times 31 \\ \hline 651 \end{array}$

$$61 \times 71$$

4331

$$71 \times 81$$

5751

$$81 \times 91$$

7271

$$41 \times 51$$

2091

$$51 \times 61$$

$$3111$$

$$21 \times 41$$

$$861$$

$$31 \times 81$$

$$2511$$

$$41 \times 91$$

$$3731$$



✓ ✓
Type – 12 $[a \ 0 \ b] \times [c \ 0 \ d] :-$

$$304 \times 709$$

Diagram illustrating the multiplication of 304 by 709. The numbers are written as 304 x 709. Arrows indicate the following steps: a green arrow from 3 to 7, a green arrow from 0 to 0, a green arrow from 4 to 9, a blue arrow from 3 to 0, a blue arrow from 0 to 7, and a blue arrow from 4 to 0.

$$\underline{215536} \quad \underline{\text{Ans}}$$

Type – 12 $[a\ 0\ b] \times [c\ 0\ d]$:-

$$706 \times 504$$

355824

Type – 12 $[a\ 0\ b] \times [c\ 0\ d]$:-

$$603 \times 205$$

$$\underline{123615}$$

Type – 12 $[a\ 0\ b] \times [c\ 0\ d]$:-


$$309 \times 904$$

279336

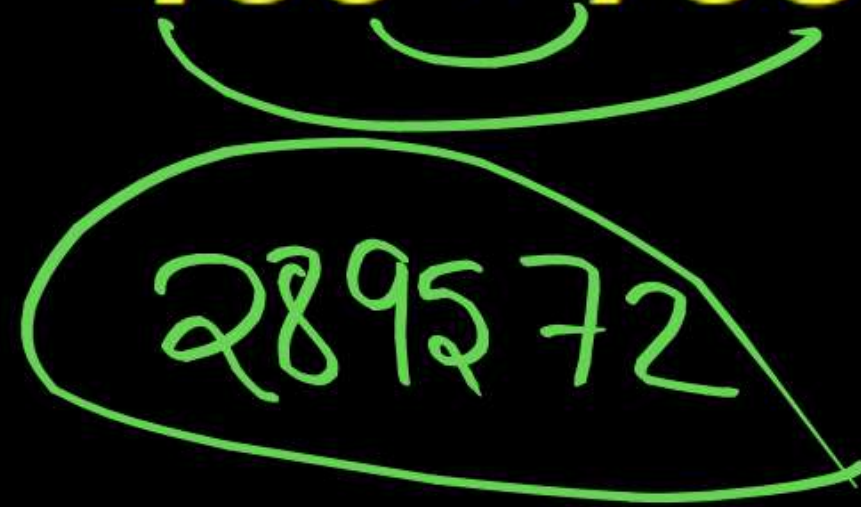
Type – 12 $[a\ 0\ b] \times [c\ 0\ d]$:-

$$807 \times 705$$

$$568935$$

Type – 12 $[a\ 0\ b] \times [c\ 0\ d]$:-

$$409 \times 708$$



289572

Next class
Monday