

DIVISION (भाग)

TYPE-1

$$\begin{array}{r} 2 \\ 3 \end{array} \begin{array}{c} \textcircled{\times 19} \\ \textcircled{\times 19} \end{array} \begin{array}{c} 38 \\ 57 \end{array}$$

$$\begin{array}{r} 38 \\ 2 \end{array}$$

$$\frac{a}{b} \Rightarrow \text{Integer पूर्ण}$$

$$168 / 7 =$$

(a) 26

(b) 23

(c) 22

~~(d) 24~~

$$\frac{168}{7} = 24$$

$$\begin{array}{r} 2 \\ \underline{168} \\ 7 \end{array} \quad \begin{array}{r} 34 \\ \underline{44} \\ 54 \\ \underline{54} \\ 0 \end{array}$$

$$\underline{117} / 9 =$$

(a) 12

(c) 14

✓ ~~(b) 13~~

(d) 16

13

$$192 / 48 =$$

(a) 3

(b) 6

(c) 5

(d) 4

$$\frac{192}{48} = 4$$

$$252 \div 63 =$$

(a) 6

(b) 3

(c) 7

✓ (d) 4

A handwritten long division in green ink. The dividend 252 is written above a horizontal line, and the divisor 63 is written below it. A horizontal line is drawn under the 25, and a vertical line is drawn under the 2. The quotient 4 is written to the right of the dividend. A green arrow points from the 4 to the 25, and another green arrow points from the 4 to the 2. A large green bracket is drawn around the entire division process.

$$\begin{array}{r} 4 \\ 63 \overline{) 252} \\ \underline{252} \\ 000 \end{array}$$

$$774 / 43 =$$

~~(a) 18~~
(c) 16

(b) 19
(d) 17

Handwritten long division of 774 by 43. The dividend 774 is written above a horizontal line, and the divisor 43 is written below it. A horizontal line is drawn under the 77 in the dividend. The quotient 18 is written to the right of the dividend. A curved line connects the 18 to the 77 in the dividend, indicating the multiplication step. The remainder 6 is written below the 774.

$$\begin{array}{r} 18 \\ \underline{43 \overline{) 774}} \\ 6 \end{array}$$

$$270 / 18 =$$

(a) 14

(b) 13

(c) 15

(d) 16

$$\frac{270}{18} = \frac{15}{1}$$

$$621 / 27 =$$

(a) 23

(b) 21

(c) 26

(d) 24

$$\frac{621}{27} = 23$$

$$2491 / 47 =$$

☒ (a) 53

(c) 49

(b) 47

(d) 43

47 ~~53~~ → 2491

$$\begin{array}{r} 2491 \\ \hline 47 \end{array} = 53 \quad \textcircled{A}$$

$$1494 / 83 =$$

(a) 19

(c) 16

✓ (b) 18

(d) 17

$$\begin{array}{r} 1494 \\ \hline 83 \end{array} = 18$$

$$4512 / 96 =$$

☒ (a) 47

☒ (b) 49

☐ (c) 42

☒ (d) 52

$$\begin{array}{r} 4512 \\ \hline 96 \end{array} = 47$$

$(96 \times 42) \rightarrow$

$$1178 / 38 =$$

(a) 29

(b) 41

(c) 32

~~(d) 31~~

A handwritten calculation in blue ink. The number 1178 is circled, followed by an equals sign and the number 31. Below 1178 is the number 38, with a curved line underneath it, indicating a division operation.

$$\frac{1178}{38} = 31$$

$$688 / 86 =$$

~~(a) 8~~

(b) 7

(c) 6

(d) 9

A

$$756 / 84 =$$

(a) 9

(b) 8

(c) 7

(d) 6

$k \rightarrow 99\% \text{ case में integer होता है}$
 $a \xrightarrow{\textcircled{\times k}} b$
 $c \rightarrow$

$$84 \xrightarrow{\times 9} 756$$

$$2 \rightarrow 18 \checkmark$$

$$664 / 8 =$$

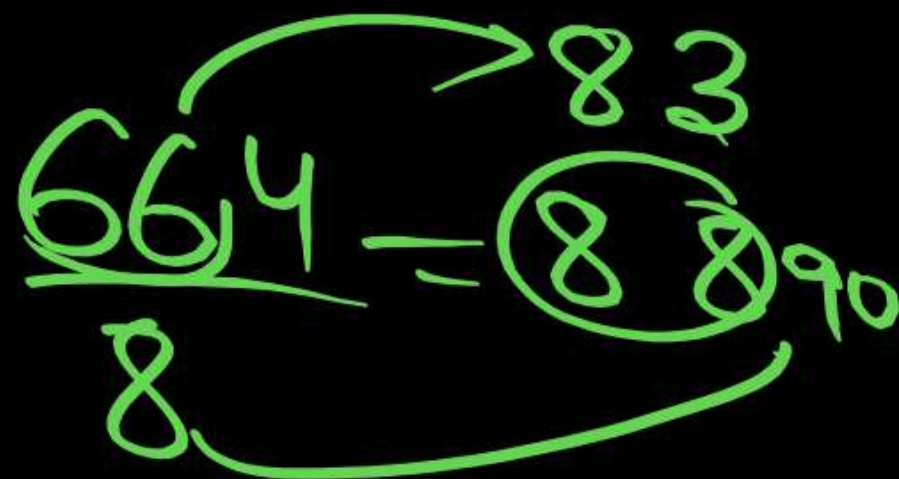
(a) 73

(c) 88

(b) 78

~~(d) 83~~





$$760 / 8 =$$

~~(a) 95~~

(c) 96

85

A

(b) 94

(d) 93

$$\underline{497} / 7 =$$

(a) 69

(b) 72

(c) 68

~~(d) 71~~

$$\underline{693} / \underline{7} =$$

~~(a) 99~~

~~(c) 98~~

(b) 89

~~(d) 78~~

9

$$\underline{704} / 8 =$$

~~(a) 93~~

☒ (c) 88

~~(b) 83~~

(d) 78

$$\underline{222} / 37 =$$

16

~~(a) 6~~

(c) 8

(b) 7

(d) 5

$$\begin{array}{r} 222 \\ \hline 37 \end{array}$$

DIVISION (भाग)

$$\frac{1}{2} \Rightarrow 50\% = 0.50$$

$$\frac{1}{4} \Rightarrow 25\% = 0.25$$

$$\frac{1}{8} = 12.5\% = 0.125$$

$$\frac{1}{16} = 6.25\% = 0.0625$$

TYPE-2

$$\frac{3}{8} = 37.5\% = 0.375$$

$\frac{N}{2^P}$ $\frac{N}{5^P}$ $\frac{1}{5} = .20$
 $\frac{1}{25} = .04$
 ~~$\frac{1}{125} = .008$~~

% याद हो

$$42 / 5 =$$

(a) 8.3

(b) 8.2

✓ ~~(c) 8.4~~

(d) 8.6

8.4

©

$$35 / 8 =$$

(a) 4.25

(b) 4.75

☒ (c) 4.375

(d) 4.275

$$4\frac{3}{8}$$
$$4.375$$



$$91 / 5 =$$

(a) 18.4

(b) 18.3

(c) 18.1

☒ (d) 18.2

~~$18 \frac{1}{5}$~~

18.20

$$117 / 4 =$$

(a) 29.45

(c) 29.75

✓ ~~(b)~~ 29.25

(d) 29.35

29.25

$$77 / 20 =$$

(a) 3.65

(b) 3.75

(c) 3.45

(d) 3.85

3.85

$$48 / 25 =$$

(a) 1.94

(c) 1.86

✓ ~~(b) 1.92~~

(d) 1.88

1.92

$$112 / 25 =$$

☒ (a) 4.48

☐ (c) 4.36

☐ (b) 4.84

☐ (d) 4.24

4.48

$$63 / 20 =$$

(a) 3.05

(b) 3.25

 (c) 3.15

(d) 3.35

3.15

$$188 / 5 =$$

(a) 35.6

(b) 36.6

(c) 38.4

✓ ~~(d) 37.6~~

37.6

$$102 / 5 =$$

(a) 20.2

(b) 20.5

(c) 21.4

(d) 20.4

20.4

$$84 / 5 =$$

~~(a) 16.8~~

(c) 17.8

(b) 16.6

(d) 15.8

16.80

$$143 / 4 =$$

(a) 35.50

(c) 35.45

 **(b) 35.75**

(d) 35.25

35.75

$$23 / 8 =$$

(a) 2.625

(b) 2.675

(c) 2.875

(d) 2.825

2.875

$$99 / 4 =$$

(a) 24.75

(b) 24.25

(c) 24.50

(d) 24.65

24.75

$$103 / 8 =$$

(a) 12.625

(b) 12.675

(c) 12.825

☒ (d) 12.875

12.875

$$19 / 16 =$$

(a) 1.25

(b) 1.18

(c) 1.17

(d) 1.16

$$\begin{array}{r} 1 \overline{) 19} \\ \underline{16} \\ 3 \end{array}$$

1.1875

$$290 / 40 =$$

(a) 7.50

(b) 7.75

(c) 7.25

(d) 7.65

7.25

$$656 / 64 =$$

(a) 9.75

(b) 9.65

☒ (c) 10.25

(d) 10.75

$$\frac{41}{4} = 10.25$$

$$735 / 70 =$$

(a) 10.4

(b) 10.6

 (c) 10.5

(d) 10.7

10.5

$$88 / 25 =$$

☒ (a) 3.52

(b) 3.54

(c) 3.25

(d) 3.45

3.52

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

- **Exam Calculation के 4 मूलमंत्र**
-

मूलमंत्र 1: किसी एक Number को % मानकर calculate करना सबसे पहले approx Ans देखते हैं कि किसके Nearest है। फिर % help से correct Answer तक पहुँचते हैं।

$$400 \times 50 = 20000$$

$$375 \times 48$$

$$18000$$

$$\begin{array}{l} 37.5\% \\ \downarrow \\ \frac{3}{8} \times 48 = 18 \end{array}$$

मूलमंत्र 1: किसी एक Number को % मानकर calculate करना सबसे पहले approx Ans देखते हैं कि किसके Nearest है। फिर % help से correct Answer तक पहुँचते हैं।

$$720 \times 60$$
$$(625) \times 64$$

$$40000$$

$$\begin{array}{r} 6251 \times 64 \\ 1 \times 64 \\ \hline 16 \end{array}$$

मूलमंत्र 2: Number को Decimal मानकर calculate करना पहले Approx Ans find करते हैं फिर Decimal की help से Ans की Digit find करते हैं और correct calculate करते हैं।

$$75 \times 80$$

$$7.5 \times 8$$

6000 ✓

मूलमंत्र 2: Number को Decimal मानकर calculate करना पहले Approx Ans find करते हैं फिर Decimal की help से Ans की Digit find करते हैं और correct calculate करते हैं।

Range

100 1000 10000 1 Lac

$$\underline{225} \times \underline{80}$$

$$2.25 \times 8$$

18000

$$375 \times 16$$

$$\begin{array}{r} 2 \\ 3 \times 16 \\ \hline 8 \\ 6000 \end{array}$$

$$\begin{array}{r} 3.75 \times 16 \\ \hline 6000 \end{array}$$

मूलमंत्र 3: Decimal के बाद Number add करके % बनाकर calculate करना

Approx. में

$$67 \times 27$$



$$66.661 \times 27$$



$$\frac{2}{3} \times 27$$

$$\rightarrow 1800 \text{ करीब}$$

मूलमंत्र 3: Decimal के बाद Number add करके % बनाकर calculate करना

$$44.44\%$$



$$\frac{4}{9} \times 81$$

$$36$$

$$44 \times 81$$

3600 के करीब

मूलमंत्र 3: Decimal के बाद Number add करके % बनाकर calculate करना

$$\underline{67} \times \underline{36}$$

↓
66.66%

2400 के करीब

2400 से बड़ा

मूलमंत्र 4: % को simplify करके calculate करना

$$425\% \times 60$$

$(400 + 25) \times 60$

$$255$$

मूलमंत्र 4: % को simplify करके calculate करना


$$375\% \times 80$$


300