

St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi -110092 Session: 2024-2025

Class: IV

Subject: Mathematics

Topic: Unit-4 Multiplication and Division

Questions to be done-

Warm up points

Ex-4A Q2 a,d,f Q1 H.W.(Book) Q4, Q5 a,d

Properties of multiplication

Ex-4B (Book work) Q1 a,c,e Q2 a,d,f,l Q3 a,e,f Q4 a,c (rest part H.W.)

Ex-4C Q1 a,c Q2 a,c + Division rule

Ex-4D Q1 a,e,k,n,o Q3, Q5

Properties of Division

Ex-4E Q1 a,c,e,g,i Q2 a,c,e,g,i,k (book work)

Ex-4F Q3,Q4,Q6,Q9,Q12

Chapter 4: Multiplication and Division

Exercise 4A

$$\begin{array}{r} 1. \text{ (a)} \quad 1283 \\ \quad \times 34 \\ \hline \quad 5132 \\ \quad 38490 \\ \hline \quad 43622 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 6012 \\ \quad \times 93 \\ \hline \quad 18036 \\ \quad 541080 \\ \hline \quad 559116 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 2487 \\ \quad \times 64 \\ \hline \quad 9948 \\ \quad 149220 \\ \hline \quad 159168 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 1478 \\ \quad \times 319 \\ \hline \quad 13302 \\ \quad 14780 \\ \quad 443400 \\ \hline \quad 471482 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 2384 \\ \quad \times 129 \\ \hline \quad 21456 \\ \quad 47680 \\ \quad 238400 \\ \hline \quad 307536 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 2378 \\ \quad \times 263 \\ \hline \quad 7134 \\ \quad 142680 \\ \quad 475600 \\ \hline \quad 625414 \end{array}$$

$$\begin{array}{r} 2. \text{ (a)} \quad 1398 \\ \quad \times 62 \\ \hline \quad 2796 \\ \quad 83880 \\ \hline \quad 86676 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 1278 \\ \quad \times 38 \\ \hline \quad 10224 \\ \quad 38340 \\ \hline \quad 48564 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 1988 \\ \quad \times 28 \\ \hline \quad 15904 \\ \quad 39760 \\ \hline \quad 55664 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 3789 \\ \quad \times 309 \\ \hline \quad 34101 \\ \quad 00000 \\ \quad 1136700 \\ \hline \quad 1170801 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 2684 \\ \quad \times 168 \\ \hline \quad 21472 \\ \quad 161040 \\ \quad 268400 \\ \hline \quad 450912 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 3489 \\ \quad \times 804 \\ \hline \quad 13956 \\ \quad 00000 \\ \quad 2791200 \\ \hline \quad 2805156 \end{array}$$

$$\begin{array}{r} 4. \quad 1642 \\ \quad \times 804 \\ \hline \quad 6568 \\ \quad 00000 \\ \quad 1313600 \\ \hline \quad 1320168 \end{array}$$

5. (a) $68 \times 2 \times 14 = 252 \times 19 = 4788$
(b) $68 \times 2 \times 14 = 136 \times 14 = 1904$
(c) $58 \times 14 \times 321 = 812 \times 321 = 260652$
(d) $9 \times 83 \times 140 = 747 \times 140 = 104580$

Exercise 4B

1. (a) $628 \times \underline{1} = 628$
(c) $4381 \times \underline{0} = 0$
(e) $0 \times 8347 = \underline{0}$
- (b) $\underline{930} \times 1 = 930$
(d) $563 \times \underline{32} = 32 \times 563$
(f) $9840 \times \underline{0} = 0$
2. (a) $93 \times 10 = \underline{930}$
(c) $683 \times 10 = \underline{6830}$
(e) $934 \times 1000 = \underline{934000}$
(g) $19 \times 10 = \underline{190}$
(i) $3967 \times 1000 = \underline{3967000}$
- (b) $874 \times 100 = \underline{87400}$
(d) $1507 \times 100 = \underline{150700}$
(f) $473 \times 1000 = \underline{473000}$
(h) $347 \times 100 = \underline{34700}$

3. (a) $63 \times 10 = 630$
(c) $832 \times 600 = 499200$
(e) $62 \times 300 = 18600$
- (b) $79 \times 20 = 1580$
(d) $198 \times 200 = 39600$
(f) $48 \times 400 = 19200$
4. (a) $67+67+67+67+67+67+67+67+67+67 = 67 \times 10 = 670$
(b) $378 + 378 + 378 + 378 + \dots$ (100 times) $= 378 \times 100 = 37800$
(c) $278 + 278 + 278 + \dots$ (1000 times) $= 278 \times 1000 = 278000$

Exercise 4C

1. (a) $40 \times 50 = 2000$
(c) $50 \times 80 = 4000$
- (b) $60 \times 80 = 4800$
2. (a) $300 \times 100 = 3000$
(c) $300 \times 200 = 60000$
- (b) $600 \times 300 = 18000$

Exercise 4D

1. (a) 2478 by 13

$$\begin{array}{r} 13 \overline{)2478} \quad 190 \\ \underline{-13} \\ 117 \\ \underline{-117} \\ 08 \\ \hline \end{array}$$

Quotient = 190;

Remainder = 8

(e) 9000 by 37

$$\begin{array}{r} 37 \overline{)9000} \quad 243 \\ \underline{-74} \\ 160 \\ \underline{-148} \\ 120 \\ \underline{-111} \\ 9 \\ \hline \end{array}$$

Quotient = 243;

Remainder = 9

(k) 80035 by 9

$$\begin{array}{r} 9 \overline{)80035} \quad 8892 \\ \underline{-72} \\ 80 \\ \underline{-72} \\ 83 \\ \underline{-81} \\ 25 \\ \underline{-18} \\ 7 \\ \hline \end{array}$$

Quotient = 8892

Remainder = 7

(n) 47809 by 19

$$\begin{array}{r} \overline{19)47809} \overline{2516} \\ \underline{-38} \downarrow \\ 98 \\ \underline{-95} \downarrow \\ 30 \\ \underline{-19} \downarrow \\ 119 \\ \underline{-114} \\ \hline 5 \end{array}$$

Quotient = 2516;
Remainder = 5

(o) 31765 by 98

$$\begin{array}{r} \overline{98)31765} \overline{324} \\ \underline{-294} \downarrow \\ 236 \\ \underline{-196} \downarrow \\ 405 \\ \underline{-392} \\ \hline 13 \end{array}$$

Quotient = 324;
Remainder = 13

$$\begin{array}{r}
 3. \quad 63 \overline{)7560} \overline{)120} \\
 \quad \underline{-63} \downarrow \\
 \quad \quad 126 \\
 \quad \quad \underline{-126} \\
 \quad \quad \quad 0
 \end{array}$$

Thus, required divisor = 120

$$\begin{aligned}
 4. \text{ Dividend} &= \text{divisor} \times \text{quotient} + \text{remainder} \\
 &= 35 \times 378 + 17 = 13230 + 17 = 13247
 \end{aligned}$$

$$\begin{aligned}
 5. \text{ Dividend} &= \text{divisor} \times \text{quotient} + \text{remainder} \\
 &= 65 \times 56 + 40 = 3640 + 40 = 3680.
 \end{aligned}$$

Exercise 4E

1. (a) 689 (b) 0 (c) 1 (d) 1 (e) 0
 (f) 1008 (g) 1 (h) 1 (i) 1

2. (a) In the number 345

Remainder is the digit at the ones place i.e. 5
 And rest part of the number is quotient i.e. 34.

- (b) In the number 3247

Remainder is the digit at the ones place i.e. 7
 And rest part of the number is quotient i.e. 324.

- (c) In the number 6843

Remainder is the digit at the ones place i.e. 3
 And rest part of the number is quotient i.e. 684.

- (d) In the number 98473

Remainder is the digit at the ones place i.e. 3 and the rest part of the number is quotient i.e. 9847.

- (e) In the number 234

The digit at the tens and ones place are remainder i.e. 34 and rest part of the number i.e. 2 is quotient.

- (g) In the number 23984
The digit at the tens and ones place is remainder i.e. 84. And rest part of the number is quotient i.e. 239.
- (h) In the number 684785
The digit at the tens and ones place is remainder i.e. 85. And rest part of the number is quotient i.e. 6847.
- (i) In the number 6378
The digit at hundreds, tens and ones place is remainder i.e. 378 and rest part of the number is quotient i.e. 6.
- (j) In the number 12478
The digit at hundreds, tens and ones place is remainder i.e. 478 and rest part of the number is quotient i.e. 12.
- (k) In the number 238948
The digit at hundreds, tens and ones place is remainder i.e. 948 and rest part of the number is quotient i.e. 238.
- (l) In the number 764125
The digit at hundreds, tens and ones place is remainder i.e. 125 and rest part of the number is quotient i.e. 764.

Exercise 4F

- Total number of crayons = 6420
Number of crayons in 1 pack = 15
Number of packs = $6420 \div 15 = 428$
- Cost of 1 glass of lemonade = ₹ 35
Cost of 2135 glasses of lemonade = $35 \times 2135 = ₹ 74,725$
Thus, she collected ₹ 74,725 for donation.
- Total number of students = 4830
Number of students in each classroom = 35
Thus, number of classrooms in school = $4830 \div 35 = 138$
- Total money saved = ₹ 3240
Number of months = 24
Money saved in every month = $3240 \div 24 = ₹ 135$

6. Product of two numbers = 8928
One number = 24
Thus, other number = $8928 \div 24 = 372$
7. Number of days in 1 year = 365
Number of days in 28 years = $365 \times 28 = 10220$ days
8. Total amount of rice = 17,745 kg
Quantity of rice each family got = 35 kg
Thus, number of families = $17745 \div 35 = 507$ families
9. Number of five hundred rupee notes = 178
Thus, total money deposited in bank = $178 \times 500 = ₹ 89,000$
10. Number of copies printer can print in an hour = 475
Number of copies printer can print in 72 hours = 475×72
 $= 34,200$ copies
11. Total amount collected = ₹ 3,09,375
Amount collected from each flat = ₹ 75
Number of flats in society = $₹ 309375 \div 75 = 4,125$ flats
12. Number of sheets in 1 ream = 500
Number of sheets in 36 reams = $36 \times 500 = 18000$ sheets
Number of sheets given to each student = 90
Thus, number of students getting the sheets = $18000 \div 90$
 $= 200$ students