

St. Andrews Scots Sr. Sec. School

I.P Extension, Patparganj, Delhi – 110092

Session: 2026-2027

Class: V

Subject: Mathematics

Unit 3 - Basic Operations II-
(Multiplication And Division)

Work to be done:

Ex-3 A: Q1 – b, d, e in Notebook.

Q2 – c, d, f in Notebook.

Q3 in Book

Ex-3 B: Q1 ,Q3 , Q5 and Q8 in Notebook.

Ex-3 C: Q1– a, d, f in Notebook.

Q2 – a in Notebook.

Q3 – a, b in Notebook.

Ex-3 D: Q1 ,Q4, Q5 and Q8 in Notebook.

Ex-3 E: Q1 – e, f, h, i in Notebook.

Ex-3 F: Q1 – c, d, e in Notebook.

Review time

Worksheet

Activity

Chapter 3: Basic Operations - II (Multiplication and Division)

Exercise 3A

- | | | |
|--|--|---|
| <p>1. (a) $\begin{array}{r} 3845 \\ \times 123 \\ \hline 11535 \\ 76900 \\ + 384500 \\ \hline 472935 \end{array}$</p> | <p>(b) $\begin{array}{r} 26735 \\ \times 239 \\ \hline 240615 \\ 802050 \\ + 5347000 \\ \hline 6389665 \end{array}$</p> | <p>(c) $\begin{array}{r} 8382 \\ \times 563 \\ \hline 25146 \\ 502920 \\ + 4191000 \\ \hline 4719066 \end{array}$</p> |
| <p>(d) $\begin{array}{r} 2935 \\ \times 2748 \\ \hline 23480 \\ 117400 \\ 2054500 \\ + 5870000 \\ \hline 8065380 \end{array}$</p> | <p>(e) $\begin{array}{r} 13485 \\ \times 2134 \\ \hline 53940 \\ 404550 \\ 1348500 \\ + 26970000 \\ \hline 28776990 \end{array}$</p> | <p>(f) $\begin{array}{r} 16834 \\ \times 1923 \\ \hline 50502 \\ 336680 \\ 15150600 \\ + 16834000 \\ \hline 32371782 \end{array}$</p> |
| <p>2. (a) $\begin{array}{r} 12194 \\ \times 209 \\ \hline 109746 \\ 000000 \\ + 2438800 \\ \hline 2548546 \end{array}$</p> | <p>(b) $\begin{array}{r} 23841 \\ \times 1642 \\ \hline 47682 \\ 953640 \\ 14304600 \\ + 23841000 \\ \hline 39146922 \end{array}$</p> | <p>(c) $\begin{array}{r} 32104 \\ \times 1892 \\ \hline 64208 \\ 2889360 \\ 25683200 \\ + 32104000 \\ \hline 60740768 \end{array}$</p> |
| <p>(d) $\begin{array}{r} 21845 \\ \times 683 \\ \hline 65535 \end{array}$</p> | <p>(e) $\begin{array}{r} 6165 \\ \times 3012 \\ \hline 12330 \end{array}$</p> | <p>(f) $\begin{array}{r} 9891 \\ \times 3122 \\ \hline 19782 \end{array}$</p> |

$$\begin{array}{r} 1747600 \\ + 13107000 \\ \hline 14920135 \end{array}$$

$$\begin{array}{r} 61650 \\ 000000 \\ + 18495000 \\ \hline 18568980 \end{array}$$

$$\begin{array}{r} 197820 \\ 989100 \\ + 29673000 \\ \hline 30879702 \end{array}$$

3. (a) $781352 \times 0 = 0$ (b) $536 \times (7182 \times 1289) = (536 \times 7182) \times 1289$
 (c) $783526 \times 7158 = 7158 \times 783526$ (d) $683516 \times 1 = 683516$
 (e) $715898 \times 0 = 0$ (f) $735616 \times 100 = 73561600$

Exercise 3B

1. Cost of each table = ₹ 325

Number of tables = 3728

Total amount paid = ₹ 325×3728 = ₹ 1211600

$$\begin{array}{r} 3728 \\ \times 325 \rightarrow (300 + 20 + 5) \\ \hline 18640 \leftarrow 3728 \times 5 \\ 74560 \leftarrow 3728 \times 20 \\ + 1118400 \leftarrow 3728 \times 300 \\ \hline 1211600 \end{array}$$

Thus, ₹ 1211600 is paid for the tables.

2. Number of schools in the state = 2278

Number of students in a school = 1250

Total number of students = 2278×1250 = 2847500 students

$$\begin{array}{r} 2278 \\ \times 1250 \rightarrow (1000 + 200 + 50 + 0) \\ \hline 0000 \leftarrow 2278 \times 0 \\ 113900 \leftarrow 2278 \times 50 \\ + 455600 \leftarrow 2278 \times 200 \\ 2278000 \leftarrow 2278 \times 1000 \\ \hline 2847500 \end{array}$$

Thus, 2847500 students are studying in the state.

3. The largest 4-digit number = 9999

The largest 3-digit number = 999

Product = 9999×999 = 9989001

Thus, the required product = **9989001**

$$\begin{array}{r} 9999 \\ \times 999 \rightarrow (900 + 90 + 9) \\ \hline 89991 \leftarrow 9999 \times 9 \\ 899910 \leftarrow 9999 \times 90 \\ + 8999100 \leftarrow 9999 \times 900 \\ \hline 9989001 \end{array}$$

4. Each worker is paid as monthly salary = ₹ 3750

Number of workers = 375

Total amount is paid during the month = ₹ 3750 × 375 = ₹ 1406250

$$\begin{array}{r}
 3750 \\
 \times 375 \rightarrow (300 + 70 + 5) \\
 \hline
 18750 \leftarrow 3750 \times 5 \\
 262500 \leftarrow 3750 \times 70 \\
 + 1125000 \leftarrow 3750 \times 300 \\
 \hline
 1406250
 \end{array}$$

Thus, ₹ 1406250 is paid to the workers.

5. Number of Lamps produced in a week = 7125

Number of weeks in a year = 52

Number of weeks in 5 years = 52 × 5

= 260 weeks

Lamps produced in 5 years = 7125 × 260

= 1852500

$$\begin{array}{r}
 7125 \\
 \times 260 \rightarrow (200 + 60 + 0) \\
 \hline
 0000 \leftarrow 7125 \times 0 \\
 427500 \leftarrow 7125 \times 60 \\
 + 1425000 \leftarrow 7125 \times 200 \\
 \hline
 1852500
 \end{array}$$

Thus, 1852500 Lamps produced in 5 years.

6. The greatest 4-digit number = 9999

The other number = 333

Product of the numbers = 9999 × 333

= 3329667

$$\begin{array}{r}
 9999 \\
 \times 333 \rightarrow (300 + 30 + 3) \\
 \hline
 29997 \leftarrow 9999 \times 3 \\
 299970 \leftarrow 9999 \times 30 \\
 + 2999700 \leftarrow 9999 \times 300 \\
 \hline
 3329667
 \end{array}$$

Thus, the product = 3329667

7. A wheat godown owner purchased quintals of wheat = 21695

Price of wheat per quintal = ₹ 526

Total cost of wheat = 21695 × 526

= ₹ 11411570

$$\begin{array}{r}
 21695 \\
 \times 526 \rightarrow (500 + 20 + 6) \\
 \hline
 130170 \leftarrow 21695 \times 6 \\
 433900 \leftarrow 21695 \times 20 \\
 + 10847500 \leftarrow 21695 \times 500 \\
 \hline
 11411570
 \end{array}$$

Thus, the total cost = ₹ 11411570

8. During a week, number of bikes manufactured = 375

Selling price of one bike = ₹ 33725

Amount of money the owner gets

= ₹ 33725 × 375

= ₹ 12646875

Thus, the owner gets ₹ 12646875

$$\begin{array}{r}
 33725 \\
 \times 375 \rightarrow (300 + 70 + 5) \\
 \hline
 168625 \leftarrow 33725 \times 5 \\
 2360750 \leftarrow 33725 \times 70 \\
 + 10117500 \leftarrow 33725 \times 300 \\
 \hline
 12646875
 \end{array}$$

Exercise 3C

1. (a) $68954 \div 72$

$$\begin{array}{r} 72 \overline{)68954} (957 \\ - 648 \downarrow \\ \hline 415 \\ - 360 \downarrow \\ \hline 554 \\ - 504 \\ \hline 50 \end{array} \quad \begin{array}{l} \text{Quotient} = 957 \\ \text{Remainder} = 50 \end{array}$$

(b) $834253 \div 97$

$$\begin{array}{r} 97 \overline{)834253} (8600 \\ - 776 \downarrow \\ \hline 582 \\ - 582 \downarrow \\ \hline 0 \ 53 \end{array} \quad \begin{array}{l} \text{Quotient} = 8600 \\ \text{Remainder} = 53 \end{array}$$

(c) $2017908 \div 569$

$$\begin{array}{r} 569 \overline{)2017908} (3546 \\ - 1707 \downarrow \\ \hline 3109 \\ - 2845 \downarrow \\ \hline 2640 \\ - 2276 \downarrow \\ \hline 3648 \\ - 3414 \\ \hline 234 \end{array} \quad \begin{array}{l} \text{Quotient} = 3546 \\ \text{Remainder} = 234 \end{array}$$

(d) $32365737 \div 473$

$$\begin{array}{r} 473 \overline{)32365737} (68426 \\ - 2838 \downarrow \\ \hline 3985 \\ - 3784 \downarrow \\ \hline 2017 \\ - 1892 \downarrow \\ \hline 1253 \\ - 946 \downarrow \\ \hline 3077 \\ - 2838 \\ \hline 239 \end{array} \quad \begin{array}{l} \text{Quotient} = 68426 \\ \text{Remainder} = 239 \end{array}$$

(e) $7834251 \div 923$

$$\begin{array}{r} 923 \overline{)7834251} (8487 \\ - 7384 \downarrow \\ \hline 4502 \\ - 3692 \downarrow \\ \hline 8105 \\ - 7384 \\ \hline 7211 \\ - 6461 \\ \hline 750 \end{array} \quad \begin{array}{l} \text{Quotient} = 8487 \\ \text{Remainder} = 750 \end{array}$$

(f) $11911100 \div 697$

$$\begin{array}{r} 697 \overline{)11911100} (17089 \\ - 697 \downarrow \\ \hline 4941 \\ - 4879 \downarrow \\ \hline 6210 \\ - 5576 \downarrow \\ \hline 6340 \\ - 6273 \\ \hline 67 \end{array} \quad \begin{array}{l} \text{Quotient} = 17089 \\ \text{Remainder} = 67 \end{array}$$

$$2. \quad (a) \text{ Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ = 235 \times 2503 + 85$$

$$\text{Dividend} = 588290$$

$$(b) \text{ Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder} \\ = 992 \times 3267 + 532 = 3241396$$

$$3. \quad (a) \ 63 \div 9 = 7 \quad (b) \ 56 \div 8 = 7 \quad (c) \ 35 \div 7 = 5 \quad (d) \ 90 \div 9 = 10 \\ 63 \div 7 = 9 \quad 56 \div 7 = 8 \quad 35 \div 5 = 7 \quad 90 \div 10 = 9$$

Exercise 3D

$$1. \quad \begin{aligned} \text{The cost of 125 games} &= ₹ 123125 \\ \text{The cost of one game} &= ₹ 123125 \div 125 \\ &= ₹ 985 \end{aligned}$$

Thus, the cost of one game is ₹ **985**.

$$\begin{array}{r} 985 \\ 125 \overline{) 123125} \\ \underline{- 1125} \downarrow \\ 1062 \downarrow \\ \underline{- 1000} \downarrow \\ 625 \downarrow \\ \underline{- 625} \\ 000 \end{array}$$

$$2. \quad \begin{aligned} \text{Product of two numbers} &= 10235445 \\ \text{One of the number} &= 445 \\ \text{The other number} &= 10235445 \div 445 \\ &= 23001 \end{aligned}$$

Thus, the other number is **23001**.

$$\begin{array}{r} 23001 \\ 445 \overline{) 10235445} \\ \underline{- 890} \downarrow \downarrow \downarrow \\ 1335 \downarrow \downarrow \downarrow \\ \underline{- 1335} \downarrow \downarrow \downarrow \\ 0000445 \downarrow \downarrow \downarrow \\ \underline{- 445} \\ 000 \end{array}$$

$$3. \quad \begin{aligned} \text{Product of two numbers} &= 1562500 \\ \text{One of the number} &= 625 \\ \text{The other number} &= 1562500 \div 625 \\ &= 2500 \end{aligned}$$

Thus, the other number is **2500**.

$$\begin{array}{r} 2500 \\ 625 \overline{) 1562500} \\ \underline{- 1250} \downarrow \downarrow \downarrow \\ 3125 \downarrow \downarrow \downarrow \\ \underline{- 3125} \downarrow \downarrow \downarrow \\ 0000 \end{array}$$

4. Number of minutes = 860400
 1 hour = 60 minutes
 Number of hours = $860400 \div 60$
 = 14340 hours

Thus, there are **14340** hours.

$$\begin{array}{r} 14340 \\ 60 \overline{) 860400} \\ \underline{- 60} \\ 260 \\ \underline{- 240} \\ 204 \\ \underline{- 180} \\ 240 \\ \underline{- 240} \\ 00 \end{array}$$

5. To get the number, we have to divide 491728 by 584
 So, $491728 \div 584 = 842$
 Thus, 842 should be multiplied by 584 to get **491728**.

$$\begin{array}{r} 842 \\ 584 \overline{) 491728} \\ \underline{- 4672} \\ 2452 \\ \underline{- 2336} \\ 1168 \\ \underline{- 1168} \\ 0000 \end{array}$$

6. Product of two numbers = 316665
 One of the number = 155
 The other number = $316665 \div 155$
 = 2043

Thus, the other number is **2043**.

$$\begin{array}{r} 2043 \\ 155 \overline{) 316665} \\ \underline{- 310} \\ 666 \\ \underline{- 620} \\ 465 \\ \underline{- 465} \\ 0 \end{array}$$

7. Total number of biscuits = 222075
 No. of biscuits in each poly-pack = 175
 Total number of poly-packs required = $222075 \div 175$
 = 1269

Thus, **1269** poly-packs are required to pack 222075 biscuits.

$$\begin{array}{r} 1269 \\ 175 \overline{) 222075} \\ \underline{- 175} \\ 470 \\ \underline{- 350} \\ 1207 \\ \underline{- 1050} \\ 1575 \\ \underline{- 1575} \\ 0000 \end{array}$$

8. To find the number which is exactly divisible by 375, we have to find the quotient and remainder as $316579 \div 375$

$$\Rightarrow \text{Quotient} = 844$$

$$\text{Remainder} = 79$$

So, $316579 - 79 = 316500$ is exactly divisible by 375.

Thus, 79 should be subtracted from 316579 to make it divisible by 375.

$$\begin{array}{r} 844 \\ 375 \overline{) 316579} \\ \underline{- 3000} \\ 1657 \\ \underline{- 1500} \\ 1579 \\ \underline{- 1500} \\ 79 \end{array}$$

Exercise 3E

1. (a) $18 + \underline{6 \div 3}$
 $= 18 + 2$
 $= 20$
- (b) $173 \times \underline{15 \div 5} + 4 - 1$
 $= \underline{173 \times 3} + 4 - 1$
 $= \underline{519 + 4} - 1$
 $= 523 - 1 = 522$
- (c) $68 - \underline{14 \times 2}$
 $= 68 - 28$
 $= 40$
- (d) $252 - 30 \times \underline{9 \div 3} + 11$
 $= 252 - \underline{30 \times 3} + 11$
 $= 252 - 90 + 11$
 $= \underline{252 + 11} - 90$
 $= 263 - 90 = 173$
- (e) $18 + \underline{36 \div 18} \times 4 - 5$
 $= 18 + \underline{2 \times 4} - 5$
 $= \underline{18 + 8} - 5$
 $= 26 - 5 = 21$
- (f) $100 - \underline{72 \div 9} + 4 \times 2$
 $= 100 - 8 + \underline{4 \times 2}$
 $= \underline{100} - 8 + \underline{8}$
 $= 108 - 8 = 100$
- (g) $100 - \underline{63 \div 7} + 14 \times 2$
 $= 100 - 9 + \underline{14 \times 2}$
 $= \underline{100} - 9 + \underline{28}$
 $= 128 - 9 = 119$
- (h) $\underline{40 \div 5} + 3 \times 6 - 2$
 $= 8 + \underline{3 \times 6} - 2$
 $= \underline{8 + 18} - 2$
 $= 26 - 2 = 24$
- (i) $56 - \underline{36 \div 4} \times 2 + 7$
 $= 56 - \underline{9 \times 2} + 7$
 $= \underline{56} - 18 + \underline{7}$
 $= 63 - 18 = 45$

Exercise 3F

1. (a) $80 - \{16 \div (7 - 2 - 1)\}$
 $= 80 - \{16 \div 4\}$
 $= 80 - 4$
 $= 76$
- (b) $[135 \div \{23 - 2(8 - \overline{6 - 2})\}]$
 $= [135 \div \{23 - 2(8 - 4)\}]$
 $= [135 \div \{23 - 2 \times 4\}]$
 $= [135 \div \{23 - 8\}]$
 $= 135 \div 15 = 9$

$$\begin{aligned}
 \text{(c)} \quad & [\{(40 - \overline{10 - 6 \div 4}) \times 7 + 3\}] \\
 & = [\{(40 - 4 \div 4) \times 7 + 3\}] \\
 & = [\{(40 - 1) \times 7 + 3\}] \\
 & = [\{39 \times 7 + 3\}] \\
 & = [273 + 3] = 276
 \end{aligned}$$

$$\begin{aligned}
 \text{(d)} \quad & [40 \div \{19 - 3(6 - \overline{4 - 1})\}] \\
 & = [40 \div \{19 - 3(6 - 3)\}] \\
 & = [40 \div \{19 - 3 \times 3\}] \\
 & = [40 \div \{19 - 9\}] \\
 & = [40 \div 10] = 4
 \end{aligned}$$

$$\begin{aligned}
 \text{(e)} \quad & 24 + \{(6 \div 3 - 1) + 5\} \div 3 \text{ of } 2 - 3 \times 7 \\
 & = 24 + \{(2 - 1) + 5\} \div 6 - 3 \times 7 \\
 & = 24 + \{1 + 5\} \div 6 - 3 \times 7 \\
 & = 24 + 6 \div 6 - 3 \times 7 \\
 & = 24 + 1 - 3 \times 7 \\
 & = 24 + 1 - 21 \\
 & = 25 - 21 = 4
 \end{aligned}$$

Review Time

I. 1. (c) 2. (a) 3. (c) 4. (b) 5. (b) 6. (a) 7. (b)

II. 1. $26 \div 13 = 2$ 2. $560 \times 1000 = 560000$
 3. $54749 \times 354 = 19381146$ 4. $3600 \div 100 = 36$
 5. $275364 \div 245 \Rightarrow \text{Quotient} = 1123 \text{ and Remainder} = 229$

III. 1. No. of packs daily = 2485
 No. of days worked in a month = 24
 Total packets packed = $2485 \times 24 = 59640$
 2. Total production in a month = 258720 packets
 No. of packets per box = 490
 Total box needed = $\frac{258720}{490} = 528$

IV. 1. (b) 2. (c)

