

St. Andrews Scots Sr. Sec. School

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

Class: V

Subject: Mathematics

Topic: unit 3- Operation on large Numbers

Question to be done:-

Introduction of chapter

Warm up

Properties of addition (n/b) (H.W)

Ex:-3A

Q1- a, d (notebook)

Q2- b, d (notebook)

Q3- (notebook)

Q4- b (Book)

Ex:-3B

Properties of Subtraction (n/b) (H. W)

Q1- a, d (book) (H. W)

Q2- b, d (notebook)

Q3- a(book)

Q5- (notebook)

Q6- (notebook) (H. W)

Ex:-3C

Q- 2,4,5 (notebook)

Ex:-3D

Properties of multiplication (notebook) (H. W)

Q1- b, e(notebook)

Q2- a, c, e (notebook)

Q3- (Book)(H.w)

Ex:-3E

Properties of Division (notebook) (H. W)

Q1- b, d, f (notebook)

Q2- b (notebook)

Ex:-3F

Q- 3,4,6,8,11,12,14 (notebook)

Ex:-3G

DMAS Diagram in notebook (pg.:-53)

Q1- a, d, e, f, g, i

Ex:-3H

VBODMAS (notebook)

Q1- b, c, e

Exercise 3A

$$1. \quad (a) \quad \begin{array}{r} 65235165 \\ + 22360123 \\ \hline 87595288 \end{array}$$

$$(c) \quad \begin{array}{r} 28460438 \\ 32775142 \\ + 4649136 \\ \hline 65884716 \end{array}$$

$$2. \quad (a) \quad \begin{array}{r} 116230894 \\ + 22579809 \\ \hline 138810703 \end{array}$$

Sum = 13,88,10,703

$$(c) \quad \begin{array}{r} 13525008 \\ 9847652 \\ + 12005 \\ \hline 23384665 \end{array}$$

Sum = 2,33,84,665

$$3. \quad \begin{array}{r} 6,65,79,304 \\ + 46,55,605 \\ \hline 7,12,34,909 \end{array}$$

$$(b) \quad \begin{array}{r} 37652896 \\ + 25162405 \\ \hline 62815301 \end{array}$$

$$(d) \quad \begin{array}{r} 145367043 \\ 298423548 \\ + 108491 \\ \hline 443899082 \end{array}$$

$$(b) \quad \begin{array}{r} 238421006 \\ + 19856245 \\ \hline 686805 \\ \hline 258964056 \end{array}$$

Sum = 25,89,64,056

$$(d) \quad \begin{array}{r} 324895621 \\ + 23105799 \\ \hline 348001420 \end{array}$$

Sum = 34,80,01,420



$$4. \quad (a) \quad \begin{array}{r} 11\boxed{0}4\boxed{8}8\boxed{2} \\ + \boxed{7}7353\boxed{7}8 \\ \hline 8\boxed{8}4\boxed{0}260 \end{array}$$

$$(b) \quad \begin{array}{r} \boxed{5}197\boxed{7}2\boxed{2} \\ + 7\boxed{0}1\boxed{2}393 \\ \hline 122\boxed{1}0115 \end{array}$$

Exercise 3B

$$1. \quad (a) \quad \begin{array}{r} 6843102 \\ - 2310102 \\ \hline 4533000 \end{array}$$

$$(c) \quad \begin{array}{r} 40302312 \\ - 21232524 \\ \hline 19069788 \end{array}$$

$$2. \quad (a) \quad \begin{array}{r} 3824197 \\ - 2010102 \\ \hline 1814095 \end{array}$$

$$(c) \quad \begin{array}{r} 90000000 \\ - 86124352 \\ \hline 3875648 \end{array}$$

$$3. \quad (a) \quad \begin{array}{r} 6\boxed{1}70453 \\ - 29\boxed{7}7\boxed{2}24 \\ \hline \boxed{3}19\boxed{3}2\boxed{2}9 \end{array}$$

$$4. \quad \begin{array}{r} 89,36,665 \\ - 65,35,038 \\ \hline 24,01,627 \end{array}$$

$$6. \quad \begin{array}{r} 40,10,266 \\ - 5,69,636 \\ \hline 34,40,630 \end{array}$$

$$(b) \quad \begin{array}{r} 8000000 \\ - 698754 \\ \hline 7301246 \end{array}$$

$$(d) \quad \begin{array}{r} 983241964 \\ - 120586342 \\ \hline 862655622 \end{array}$$

$$(b) \quad \begin{array}{r} 99998884 \\ - 22236112 \\ \hline 77762772 \end{array}$$

$$(d) \quad \begin{array}{r} 13024564 \\ - 6035682 \\ \hline 6988882 \end{array}$$

$$(b) \quad \begin{array}{r} 7386\boxed{0}74 \\ - 51306\boxed{5}7 \\ \hline \boxed{2}2\boxed{5}5417 \end{array}$$

$$5. \quad \begin{array}{r} 5,36,26,389 \\ - 2,26,00,309 \\ \hline 31026080 \end{array}$$

$$\text{Now, } \begin{array}{r} 4,000,000 \\ - 31026080 \\ \hline 8973920 \end{array}$$

Exercise 3C

1.
$$\begin{array}{r} 6,781,2389 \\ - 1,262,6121 \\ \hline 55186268 \end{array}$$
2.
$$\begin{array}{r} 55186268 \\ - 21238161 \\ \hline 76424429 \end{array}$$
2. $9,83,51,239 - 1,23,61,211 - 2,36,12,381$
 $9,83,51,239 - [12361211 + 23612381]$
 $9,83,51,239 - 35973592 = 62,377647$
3. $77835238 + 16673218 - 61238816 - 1612386$
 $\Rightarrow 77835238 + 16673218 - [61238816 + 1612386]$
 $\Rightarrow 94508456 - [62851202]$
 $\Rightarrow 31657254$
4. According to question,
 $\Rightarrow 16893775 + [6789365 - 52361819]$
 $\Rightarrow 16893775 + 15531832$
 $\Rightarrow 32425607$
5. According to question,
 $\Rightarrow 99886677 - [67552615 + 16538969]$
 $\Rightarrow 99886677 - [84091584]$
 $\Rightarrow 15795093$

Exercise 3D

1. (a)
$$\begin{array}{r} 3845 \\ \times 123 \\ \hline 11535 \\ 76900 \\ \hline 384500 \\ 472935 \end{array}$$
- (b)
$$\begin{array}{r} 26735 \\ \times 239 \\ \hline 240615 \\ 802050 \\ \hline 5347000 \\ 6389665 \end{array}$$
- (c)
$$\begin{array}{r} 8382 \\ \times 563 \\ \hline 25146 \\ 502920 \\ \hline 4191000 \\ 4719066 \end{array}$$

- (d)
$$\begin{array}{r} 2935 \\ \times 2748 \\ \hline 23480 \\ 117400 \\ 2054500 \\ 5870000 \\ \hline 8065380 \end{array}$$
- (e)
$$\begin{array}{r} 13485 \\ \times 2134 \\ \hline 53940 \\ 404550 \\ 1348500 \\ 26970000 \\ \hline 28776990 \end{array}$$
- (f)
$$\begin{array}{r} 16834 \\ \times 1923 \\ \hline 50502 \\ 336680 \\ 15150600 \\ 16834000 \\ \hline 32371782 \end{array}$$
2. (a)
$$\begin{array}{r} 12194 \\ \times 209 \\ \hline 109746 \\ 000000 \\ 2438800 \\ \hline 2548546 \end{array}$$
- (b)
$$\begin{array}{r} 23841 \\ \times 1642 \\ \hline 47682 \\ 953640 \\ 14304600 \\ 23841000 \\ \hline 39146922 \end{array}$$
- (c)
$$\begin{array}{r} 32104 \\ \times 1892 \\ \hline 64208 \\ 2889360 \\ 25683200 \\ 32104000 \\ \hline 60740768 \end{array}$$
- (d)
$$\begin{array}{r} 21845 \\ \times 683 \\ \hline 65535 \\ 1747600 \\ 13107000 \\ \hline 14920135 \end{array}$$
- (e)
$$\begin{array}{r} 6165 \\ \times 3012 \\ \hline 12330 \\ 61650 \\ 000000 \\ 18495000 \\ \hline 18568980 \end{array}$$
- (f)
$$\begin{array}{r} 9891 \\ \times 3122 \\ \hline 19782 \\ 197820 \\ 989100 \\ 29673000 \\ \hline 30879702 \end{array}$$
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 3E

1. (a) $68954 \div 72$

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

Quotient = 957
Remainder = 50

(b) $834253 \div 97$

$$\begin{array}{r} 97 \overline{)834253} \quad (8600 \\ - 776 \downarrow \\ \hline 582 \\ - 582 \downarrow \\ \hline 053 \end{array}$$

Quotient = 8600
Remainder = 53

(c) $2017908 \div 569$

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

Quotient = 3546
Remainder = 234

(d) $32365737 \div 473$

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

Quotient = 68426
Remainder = 239

(e) $7834251 \div 923$

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

Quotient = 8487
Remainder = 750

(f) $11911100 \div 697$

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

Quotient = 17089
Remainder = 67

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

Dividend = 588290

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

Exercise 3F

- | | | |
|---|-----|------------|
| Cost of plot | = | ₹ 63521212 |
| Amount spent on construction | = | ₹ 13545000 |
| Amount spent on furniture and furnishings | = + | ₹ 3624980 |
| Total expenditure | = | ₹ 80691192 |
- | | | |
|-----------------------------------|-----|-----------|
| Amount collected by first school | = | ₹ 1535984 |
| Amount collected by second school | = | ₹ 682703 |
| Amount collected by third school | = + | ₹ 5986345 |
| Total amount | = | ₹ 8205032 |
- | | | | |
|----------------------------------|---|----------------|-------|
| Number of bikes produced in 2012 | = | 7376248 | bikes |
| Number of bikes produced in 2013 | = | 7376248 | |
| | | + 1053489 | |
| | | <u>8429737</u> | bikes |

So, in 2013, factory produced 84,29,737 bikes
Total bikes produced in 2 years = $7376248 + 8429737$
= 1,58,05,985 bikes
- | | | |
|---|-----|----------------|
| Number of votes received by candidate 'A' | = | 786592 |
| Number of votes received by candidate 'B' | = | 422379 |
| Number of votes received by candidate 'C' | = | 123948 |
| Number of invalid votes | = | 12355 |
| Number of people who did not vote | = + | 6245 |
| Number of registered votes | = | <u>1351519</u> |
- | | | |
|--------------------------|-----|----------------|
| Population in 2014 | = | 11003600 |
| In year 2013, population | = - | 9832165 |
| Increase in population | = | <u>1171435</u> |
- | | | |
|---------------------------------------|-----|---------------|
| Buttons produced by factory in a year | = | 7082349 |
| Buttons produced in previous year | = - | 6865249 |
| Increased production | = | <u>217100</u> |

7. Number of students got 1st division = 298352
 Number of students got 2nd and 3rd division = 203245
 Total students passed = 298352 + 203245
 = 501597
 Number of students appeared in exam = 604212
 Number of students who could not clear the exam = 604212 - 501597
 = 102615
8. Number of pencils in 1 pack = 12 pencils
 Number of pencils in 1 carton = 12 × 450 = 5400 pencils
 Number of pencils in 25 cartons = 5400 × 25 = 1,35,000 pencils
9. 1 student pays fees = ₹ 8595
 2250 students pay fees = 2250 × 8595 = ₹ 1,93,38,750
10. In 1 day fabric produced by mill = 4953 m
 In 365 days fabric produced by mill = 4953 × 365 = 18,07,845 m
11. Number of letters in 1 line = 42
 Number of letters in 1 page = 42 × 125 = 5250
 Number of letters in 1 book = 5250 × 1592 = 8358000
12. Total no. of words = 995904
 Total no. of pages = 1456
 No. of words in each page = 995904 ÷ 1456 = 684 words
 No. of lines in each page = 38
 No. of words in each line = 684 ÷ 38 = 18 words
13. 736 trucks can carry 1214400 kg of weight
 1 truck can carry 1214400 ÷ 736 = 1650 kg of weight
14. No. of people who visited zoo in 327 days = 950589
 No. of people who visited zoo in 1 day = 950589 ÷ 327 = 2907 people
15. 182 tanks can hold 1633450 litres of water
 Thus, 1 tank can hold 1633450 ÷ 182 = 8975 litres of water

Exercise 3G

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

(h) $\underline{40 \div 5} + 3 \times 6 - 2$
 = 8 + $\underline{3 \times 6} - 2$
 = $\underline{8 + 18} - 2$
 = 26 - 2 = 24

(g) $100 - \underline{63 \div 7} + 14 \times 2$
 = 100 - 9 + $\underline{14 \times 2}$
 = $\underline{100} - 9 + \underline{28}$
 = 128 - 9 = 119

(i) $56 - \underline{36 \div 4} \times 2 + 7$
 = 56 - $\underline{9 \times 2} + 7$
 = $\underline{56} - 18 + \underline{7}$
 = 63 - 18 = 45

Exercise 3H

1. (a) $80 - \{16 \div (7 - 2 - 1)\}$
 = 80 - {16 ÷ 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 ÷ 15 = 9
- (c) $[\{(40 - \overline{10 - 6 \div 4}) \times 7 + 3\}]$
 = $[\{(40 - 4 + 4) \times 7 + 3\}]$
 = $[\{(40 - 1) \times 7 + 3\}]$
 = $[\{39 \times 7 + 3\}]$
 = $[273 + 3] = 276$
- (d) $[40 \div \{19 - 3(6 - \overline{4 - 1})\}]$
 = $[40 \div \{19 - 3(6 - 3)\}]$
 = $[40 \div \{19 - 3 \times 3\}]$
 = $[40 \div \{19 - 9\}]$
 = $[40 \div 10] = 4$
- (e) $24 + \{(6 \div 3 - 1) + 5\} \div 3 \text{ of } 2 - 3 \times 7$
 = 24 + $\{(2 - 1) + 5\} \div 6 - 3 \times 7$
 = 24 + $\{1 + 5\} \div 6 - 3 \times 7$
 = 24 + 6 ÷ 6 - 3 × 7
 = 24 + 1 - 3 × 7
 = 24 + 1 - 21
 = 25 - 21 = 4

