IV-C MATHS

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Exc- 6A.

Q8 (a) Add 89 to itself 10 times.

Sol -

= 89 x 10

= 890 Ans

(b) Add 365 to itself 100 times

Sol -

= 365 x 100

= 36500 Ans.

(c) Add 145 to itself 1000 times.

Sol -

= 145 x 1000

= 1,45,000 Ans.

Exc- 6-B

Q1- multiply

(a)
```
  83
 x17
 581
 83x
1411
```

(b)
```
  97
 x56
 582
485x
5432
```

(c)
```
 864
 x43
 2592
3456x
37152
```

(d)
```
 739
 x59
 6651
3695x
43601
```

(e)
```
 2468
  x25
 12340
4936x
61700
```

Q2 (a)
32
X12
64
32X
384

(b)
12
X14
48
12X
168

(c)
60
X16
360
60X
960

(d)
41
X18
328
41X
738

(e)
79
X17
553
79X
1343

Q3 (a)
76
X23
228
152X
1748

(b)
53
X35
265
159X
1855

(c)
84
X45
420
336X
3780

(d)
49
X52
98
245X
2548

(e)
90
X73
270
630X
6570

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Exe-6.A

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Multiply.

Q4 (a)
$$\begin{array}{r} 123 \\ \times 11 \\ \hline 123 \\ 123\times \\ \hline 1353 \end{array}$$

(b)
$$\begin{array}{r} 241 \\ \times 12 \\ \hline 482 \\ 241\times \\ \hline 2892 \end{array}$$

(c)
$$\begin{array}{r} 234 \\ \times 15 \\ \hline 1170 \\ 234\times \\ \hline 3510 \end{array}$$

(d)
$$\begin{array}{r} 103 \\ \times 17 \\ \hline 721 \\ 103\times \\ \hline 1751 \end{array}$$

(e)
$$\begin{array}{r} 412 \\ \times 19 \\ \hline 3708 \\ 412\times \\ \hline 7828 \end{array}$$

Q5. (a)
$$\begin{array}{r} 234 \\ \times 37 \\ \hline 1638 \\ 702\times \\ \hline 8658 \end{array}$$

(b)
$$\begin{array}{r} 345 \\ \times 55 \\ \hline 1725 \\ 1725\times \\ \hline 18975 \end{array}$$

(c)
$$\begin{array}{r} 567 \\ \times 26 \\ \hline 3402 \\ 1134\times \\ \hline 14742 \end{array}$$

(d)
$$\begin{array}{r} 850 \\ \times 69 \\ \hline 7650 \\ 5100\times \\ \hline 58650 \end{array}$$

(e)
$$\begin{array}{r} 444 \\ \times 66 \\ \hline 2664 \\ 2664\times \\ \hline 29304 \end{array}$$

IV C - MATHS

Exc - 6.B

Q6 Multiply -

(a) 6871 by 13

Sol -

```
 6871
  X13
-----
20613
6871 X
-----
89323
-----
```

Ans = 89,323

(b) 2054 by 16

Sol -

```
 2054
  X16
-----
12324
2054 X
-----
32864
-----
```

Ans = 32,864

(c) 3708 by 12

Sol -

```
 3708
  X12
-----
 7416
3708X
-----
44496
-----
```

Ans = 44,496

(d) 7839 by 15

Sol -

```
 7839
  X15
-----
39195
7839 X
-----
117585
-----
```

Ans = 1,17,585

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Q7. Multiply -

(a) 4380 by 57

Sol -

```
  4380
   x57
 30660
21900x
------
249660
```

Ans = 2,49,660

(b) 1435 by 94

Sol -

```
  1435
   x94
 5740
12915x
------
134890
```

Ans = 1,34,890

(c) 5162 by 48

Sol —

```
  5162
   x48
 41296
20648x
------
247776
```

Ans = 2,47,776

(d) 8300 by 75

Sol —

```
  8300
   x75
 41500
58100x
------
622500
```

Ans = 6,22,500

IV C MATHS

Exc - 6-C

Multiply—

Q1 (a) 23 x 121

sol—

```
  121
 x 23
 ----
  363
 242x
 ----
 2783
 ----
```

(b) 34 x 212

sol—

```
  212
 x 34
 ----
  848
 636x
 ----
 7208
 ----
```

(c) 45 x 132

sol—

```
  132
 x 45
 ----
  660
 528x
 ----
 5940
 ----
```

(d) 56 x 430

sol—

```
  430
 x 56
 ----
 2580
 2150x
 -----
 24080
 -----
```

(e) 70 x 279

sol—

```
  279
 x 70
 ----
  000
 1953x
 -----
 19530
 -----
```

Q2 (a) 142 x 320

sol –

```
  142
 x320
 ----
  000
 284x
426xx
-----
45440
```

(b) 254 x 205

sol –

```
  254
 x205
 ----
 1270
 000x
508xx
-----
52070
```

(c) 423 x 184

sol –

```
  423
 x184
 ----
 1692
3384x
423xx
-----
77832
```

(d) 536 x 560

sol –

```
  536
 x560
 ----
  000
3216x
268oxx
------
300160
```

(e) 614 x 135

sol –

```
  614
 x135
 ----
 3070
1842x
614xx
-----
82890
```

(f) 703 x 142

sol –

```
  703
 x142
 ----
 1406
2812x
703xx
-----
99826
```

IV-C MATHS

Exe-6-C

Q2

(g) 319 x 308

Sol –

```
  319
 x308
 2552
 000x
957xx
98252
```

(h) 342x342

Sol –

```
  342
 x342
  684
 1368x
1026xx
116964
```

Q3 (a) 1245 x 324

Sol –

```
  1245
  x324
  4980
 2490x
3735xx
403380
```

(b) 2168x256

Sol –

```
  2168
  x256
 13008
10840x
4336xx
555008
```

(c) 3047x418

Sol –

```
  3047
  x418
 24376
 3047x
12188xx
1273646
```

(d) 1662x540

Sol –

```
  1662
  x540
  0000
 6648x
8310xx
897480
```

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Q4 (a) multiply 403 by 304

sol —

```
  403
 x304
------
 1612
 000x
1209xx
------
122512
```

(b) Multiply 3659 by 238

sol —

```
 3659
 x238
------
 29272
 10977x
 7318xx
------
870842
```

(c) multiply 2479 by 123

sol —

```
 2479
 x123
------
 7437
 4958x
2479xx
------
304917
```

(d) multiply three hun and ninety six by tw hundred and twenty five

sol —

```
 396
 x225
------
 1980
 792x
792xx
------
89100
```

(e) multiply one thousand five hundred and forty-nine by three hundred and sixty.

sol —

```
 1549
 x360
------
 0000
 9294x
4647xx
------
557640
```

"You can't cross the sea merely by standing and staring at the water."—Rabindranath Tagor

V C MATHS — Exe- 6-C

Q5 Find the products.

(a) 12×8×34

Sol —

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 96 \\ \times 34 \\ \hline 384 \\ 288\times \\ \hline 3264 \end{array}$$

(b) 14×7×46

Sol —

$$\begin{array}{r} 14 \\ \times 7 \\ \hline 98 \end{array}$$

$$\begin{array}{r} 98 \\ \times 46 \\ \hline 588 \\ 392\times \\ \hline 4508 \end{array}$$

(c) 58×18×92

Sol —

$$\begin{array}{r} 58 \\ \times 18 \\ \hline 464 \\ 58\times \\ \hline 1044 \end{array}$$

$$\begin{array}{r} 1044 \\ \times 92 \\ \hline 2088 \\ 9396\times \\ \hline 96048 \end{array}$$

(d) 6×82×150

Sol —

$$\begin{array}{r} 82 \\ \times 6 \\ \hline 492 \end{array}$$

$$\begin{array}{r} 492 \\ \times 150 \\ \hline 000 \\ 2460\times \\ 492\times\times \\ \hline 73800 \end{array}$$

(e) 57×14×231

Sol —

$$\begin{array}{r} 57 \\ \times 14 \\ \hline 228 \\ 57\times \\ \hline 798 \end{array}$$

$$\begin{array}{r} 798 \\ \times 231 \\ \hline 798 \\ 2394\times \\ 1596\times\times \\ \hline 184338 \end{array}$$

(e) ~~57×14×231~~

Sol —

$$\begin{array}{r} 54 \\ \times 14 \\ \hline 216 \\ 54\times \\ \hline \end{array}$$

$$\begin{array}{r} 756 \\ \times 231 \\ \hline 756 \\ 2268\times \\ 15\times\times \\ \hline \end{array}$$

Simplify →

Q1 (a) 5×8 + 7×9

Sol-

= 40 + 63

= 103 Ans.

(b) 6×4 + 9×3

Sol-

= 24 + 27

= 51 Ans.

(c) 12×7 + 13×8

Sol-

= 84 + 104

= 188 Ans.

(d) 16×6 + 14×1

Sol-

= 96 + 14

= 110 Ans.

Q2 (a) 8×7 − 4×5

Sol-

= 56 − 20

= 36 Ans.

(b) 15×8 − 6×9

Sol-

= 120 − 54

= 66 Ans.

(c) 18×7 − 14×8

Sol-

= 126 − 112

= 14 Ans.

(d) 20×6 − 16×2

Sol-

= 120 − 32

= 88 Ans.

Q3@ $10 \times 16 + 12 \times 3 - 9 \times 8$

Sol –

$= 160 + 36 - 72$

$= 196 - 72$

$= 124$ Ans.

(b) $16 \times 5 + 15 \times 6 - 17 \times 10$

Sol –

$= 80 + 90 - 170$

$= 170 - 170$

$= 0$ Ans.

(c) $11 \times 12 + 23 \times 9 - 2 \times 120$

sol –

$= 132 + 207 - 240$

$= 339 - 240$

$= 99$ Ans.

Q4 @ $15 \times 7 - 4 \times 9 + 12 \times 4$

Sol –

$= 105 - 36 + 48$

$= 153 - 36$

$= 117$ Ans.

(b) $112 \times 5 - 26 \times 4 + 14 \times 7$

Sol –

$= 560 - 104 + 98$

$= 658 - 104$

$= 554$ Ans.

Q4

(c) $364 \times 20 - 110 \times 8 + 6 \times 100$

Sol –

$= 7280 - 880 + 600$

$= 7880 - 880$

$= 7000$ Ans.

Q5@ $13 \times 9 - 6 \times 7 - 3 \times 12$

sol –

$= 117 - 42 - 36$

$= 117 - 78$

$= 39$ Ans.

(b) $234 \times 8 - 45 \times 9 - 50 \times 8$

Sol –

$= 1872 - 405 - 400$

$= 1872 - 805$

$= 1067$ Ans.

IV C MATHS

Exe 6-D

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Q6 (a) $8\times9 - 7\times10 + 3\times11 - 4\times6$

Sol → $= -72 - 70 + 33 - 24$

$= 105 - 94$

$= 11$ Ans.

(b) $112\times4 - 25\times6 - 14\times8 + 3\times300$

Sol →

$= 448 - 150 - 112 + 900$

$= 1348 - 262$

$= 1086$ Ans.

(c) $16\times5 - 76\times9 + 238\times7 - 5\times100$

Sol →

$= 80 - 684 + 1666 - 500$

$= 1746 - 1184$

$= 562$ Ans.

(d) $13\times60 - 9\times17 - 28\times50 + 25\times94$

Sol →

$= 780 - 153 - 1400 + 2350$

$= 3130 - 1553$

$= 1577$ Ans.

72 + 33 = 105 ; 70 + 24 = 94

448 + 900 = 1348 ; 150 + 112 = 262

1666 + 80 = 1746 ; 684 + 500 = 1184

25 × 94 = 100 + 225 + 2350 ; 2350 + 780 = 3130

1400 + 153 = 1553

3130 − 1553 = 1577

"You can't cross the sea merely by standing and staring at the water." – Rabindranath Tagor

VI C MATHS. Exc- 6-E

Q1 Sol →

Number of floors in a building = 35
Number of flats in each floor = 8
Total number of flats = 35 × 8
= 280 Ans.

Q2 Sol —

Number of trips = 6
People travel in the bus on each trip = 64
Number of people travel in the bus everyday
= 64 × 6
= 384 Ans.

Q3 Sol —

Pens in a box = 12
Pens in 72 boxes = 72 × 12
= 864 Ans.

Q4 Sol —

Number of papersheets in a ream = 500
Number of paper sheets in 32 reams = 500 × 32
= 16,000 Ans.

IV C
MATHS Exe- 6-E

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Q5 Sol →
The cost of 1 metre cloth = Rs 245
The cost of 36 metre cloth = 245 × 36
= Rs 8820 Ans.

245
×36
1470
735×
8820

Q6 Sol →
Number of fifty-rupee notes in a bag = 178
Total money in bag = 178 × 50
= Rs 8900 Ans.

Q7 Sol →
Number of days in the month of January = 31
Number of hours in one day = 24
Number of hours in the month of January = 31 × 24
= 744 hrs Ans.

31
×24
124
62×
744

Q8 Sol →
Number of classes = 10
Number of sections in each class = 3
Number of students in each section = 40
Total number of students = 10 × 3 × 40
= 30 × 40
= 1200 Ans.

"You can't cross the sea merely by standing and staring at the water."—Rabindranath Tagor

VI C - MATHS Exe - 6-E

Q9 Sol —

Number of days in a week = 7

Number of hours in 1 day = 24

Number of hours in 7 days = 7×24

= 168 hrs.

Number of minutes in 1 hour = 60 min

Number of minutes in 168 hours = 168×60

= 10080 min Ans

Q10 Sol —

Hours = 5

minutes in 1 hour = 60 min

Minutes in 5 hours = 60×5

= 300 min

Seconds in 1 min = 60 sec

Seconds in 300 min = 300×60

= 18,000 sec Ans

Q11 Sol —

1 Ream = 500 paper sheets

6 reams = 6×500

= 3000 paper sheets

Photos can be printed on a sheet of paper = 4

Photos can be printed on 3000 paper sheets = 3000×4

= 12,000 Ans

Exercise 6A

Use multiplication to fill in.

1. (a) $8+8+8+8+8 =$ 40
(b) $6+6+6+6+6+6 =$ 36
(c) $4+4+4+4+4+4+4 =$ 28
(d) $9+9+9+9+9+9+9+9 =$ 72
(e) $7+7+7+7+7+7+7+7+7+7+7+7 =$ 84
(f) $3+3+3+3+3+3+3+3+3+3+3+3+3+3+3 =$ 45

Fill in.

2. (a) $42 \times$ 1 $= 42$
(b) 1 $\times 25 = 25$
(c) $67 \times 0 =$ 0
(d) $0 \times 39 =$ 0

3. (a) $7 \times 9 =$ 9 $\times 7$
(b) $5 \times$ 9 $= 9 \times 5$
(c) 8 $\times 6 = 6 \times 8$
(d) $12 \times$ 6 $= 6 \times 12$
(e) 5 $\times 14 = 14 \times 5$
(f) $17 \times 18 = 18 \times$ 17
(g) $(9 \times 12) \times 7 =$ 9 $\times (12 \times 7)$
(h) $15 \times (7 \times 8) = (15 \times 7) \times$ 8
(i) $3 \times (6 \times 18) = (3 \times 6) \times$ 18

4. (a) $18 \times 10 =$ 180
(b) $236 \times 10 =$ 2360
(c) $1473 \times 10 =$ 14730
(d) $15681 \times 10 =$ 156810
(e) $19 \times 100 =$ 1900
(f) $654 \times 100 =$ 65400
(g) $2317 \times 100 =$ 231700
(h) $30810 \times 100 =$ 3081000
(i) $7 \times 1000 =$ 7,000
(j) $78 \times 1000 =$ 78,000
(k) $420 \times 1000 =$ 420,000
(l) $5328 \times 1000 =$ 5328,000

5. (a) $15 \times 10 =$ 150
(b) $12 \times 50 =$ 600
(c) $16 \times 70 =$ 1120
(d) $13 \times 60 =$ 780
(e) $18 \times 80 =$ 1440
(f) $34 \times 20 =$ 680
(g) $123 \times 30 =$ 3690
(h) $210 \times 40 =$ 8400

6. (a) $12 \times 600 =$ 7200
(b) $14 \times 300 =$ 4200
(c) $17 \times 400 =$ 6800
(d) $19 \times 500 =$ 9500
(e) $111 \times 900 =$ 99900
(f) $130 \times 800 =$ 104,000

7. (a) $11 \times 3000 =$ 33000
(b) $16 \times 4000 =$ 64000
(c) $17 \times 6000 =$ 102,000
(d) $15 \times 5000 =$ 75000
(e) $20 \times 6000 =$ 120,000
(f) $12 \times 9000 =$ 108,000
(g) $110 \times 7000 =$ 770,000
(h) $103 \times 8000 =$ 824000

Do these.

8. (a) Add 89 to itself 10 times.
(b) Add 365 to itself 100 times.
(c) Add 145 to itself 1000 times.