Chapter 4: Multiplication and Division

PROBLEM SET 14 [PAGES 14 - 16]

Problem Set 14 | Q 1.01 | Page 16

Multiply.

327 × 92

SOLUTION

$$\begin{array}{r} 327 \\ \times \quad 92 \\ \hline 654 \\ +29430 \\ \hline \mathbf{30084} \end{array}$$

Problem Set 14 | Q 1.02 | Page 16

Multiply.

807 × 126

SOLUTION

$$\begin{array}{r} 807 \\ \times \quad 126 \\ \hline 4842 \\ +\ 16140 \\ +\ 80700 \\ \hline \mathbf{101682} \end{array}$$

Problem Set 14 | Q 1.03 | Page 16

Multiply.

567 × 890

SOLUTION

$$\begin{array}{r} 567 \\ \times \quad 890 \\ \hline 000 \\ +\ 51030 \\ +\ 453600 \\ \hline \mathbf{504630} \end{array}$$

Problem Set 14 | Q 1.04 | Page 16

Multiply.

4317 × 824

SOLUTION

4317
x 824
17268
+ 86340
+3453600
3557208

Problem Set 14 | Q 1.05 | Page 16
Multiply.
6092 × 203

SOLUTION

6092
× 203
18276
+ 00000
+ 1218400
1236676

Problem Set 14 | Q 1.06 | Page 16
Multiply.
1177 × 99

SOLUTION

1177
x 99
10593
+ 105930
116523

Problem Set 14 | Q 1.07 | Page 16
Multiply
456 × 187

SOLUTION

456
x 187
3192
+36480
+45600
85272

Problem Set 14 | Q 1.08 | Page 16

Multiply

6543 × 79

SOLUTION

```
   6543
x    79
  58887
+ 458010
  516897
```

Problem Set 14 | Q 1.09 | Page 16

Multiply.

2306 × 832

SOLUTION

```
   2306
x   832
    4612
+  69180
+1844800
 1918592
```

Problem Set 14 | Q 1.10 | Page 16

Multiply

6429 × 509

SOLUTION

```
      6429
x      509
     57861
+    00000
+3214500
 3272361
```

Problem Set 14 | Q 1.11 | Page 14

Multiply

4,321 × 678

SOLUTION

```
      4321
x      678
     34568
+  302470
```

+2592600
2929638

Problem Set 14 | Q 1.12 | Page 16
Multiply.
20,304 × 87

SOLUTION

20304
x 87
142128
+1624320
1766448

Problem Set 14 | Q 2 | Page 16
As part of the 'Avoid Plastic' campaign, each of the 745 students made 25 paper bags. What was the total number of paper bags made?

SOLUTION

745 Number of students
x 25 bags made by each
3725
+14900
18625

Problem Set 14 | Q 3 | Page 16
In a plantation, saplings of 215 medicinal trees have been planted in each of the 132 rows of trees. How many saplings are there in the plantation altogether?

SOLUTION

215 Saplings in each now
x 132 Number of rows
430
+ 6450
+21500
28380

Problem Set 14 | Q 4 | Page 16
One computer costs 27,540 rupees. How much will 18 such computers cost?

SOLUTION

27540 Cost of 1 computer
x 18 No. of computers
220320

+275400
495720

Problem Set 14 | Q 5 | Page 16
Under the 'Inspire Awards' scheme, 5000 rupees per student were granted for the purchase of science project materials. If 154 students in a certain taluka were covered under the scheme, find the total amount granted to that taluka.

SOLUTION

₹5000 Granted per student
x 154 No of students
20000
+ 250000
+ 500000
₹ 770000

Problem Set 14 | Q 6 | Page 16
If a certain two-wheeler costs 53,670 rupees, how much will 35 such two-wheelers cost?

SOLUTION

53760 Cost of 1 two-wheeler
x 35 No. of two-wheelers
268800
+1612800
1881600

Problem Set 14 | Q 7 | Page 16
One hour has 3,600 seconds. How many seconds do 365 hours have?

SOLUTION

3600 Seconds of 1 hour
x 365 No. of hours
18000
+ 216000
+ 1080000
1314000

Problem Set 14 | Q 8 | Page 16
Frame a multiplication word problem with the numbers 5473 and 627 and solve it.

SOLUTION

Cost of one mobile is ₹5,473. What is the cost of such 627 mobiles?
5473 Cost of 1 mobile

x 627 Number of mobiles
38311
+ 109460
+3283800
3431571
₹ 34,31,571 cost for 627 mobiles.

Problem Set 14 | Q 9 | Page 16
Find the product of the biggest three-digit number and the biggest four-digit number.

SOLUTION

9999 Biggest four digit no.
x 999 Biggest three-digit no.
89991
+ 899910
+8999100
9989001

Problem Set 14 | Q 10 | Page 16
One traveller incurs a cost of 7,650 rupees for a certain journey. What will be the cost for 26 such travelers?

SOLUTION

7650 Cost of one traveller
x 26 No. of travellers
45900
+153000
198900
98,900 cost of 26 travellers.

PROBLEM SET 15 [PAGES 19 - 20]

Problem Set 15 | Q 1.1 | Page 19

Solve the following and write the quotient and remainder.

1284 ÷ 32

```
      40
32)1284
  - 128
    0004
-      0
       4
```

Quotient = 40

Remainder = 4

Problem Set 15 | Q 1.2 | Page 19

Solve the following and write the quotient and remainder.
5586 ÷ 87

SOLUTION

```
      64
87)5586
   - 522
     0366
   - 348
      018
```

Quotient = 64

Remainder = 18

Problem Set 15 | Q 1.3 | Page 19

Solve the following and write the quotient and remainder.

1207 ÷ 27

SOLUTION

```
    44
27)1207
  -108
    127
   -108
     19
```

Quotient = 44

Remainder = 19

Problem Set 15 | Q 1.4 | Page 19

Solve the following and write the quotient and remainder.

8543 ÷ 41

SOLUTION

```
     208
41)8543
   -82
    034
   - 00
     343
 -   328
      15
```

Quotient = 208

Remainder = 15

Problem Set 15 | Q 1.5 | Page 19

Solve the following and write the quotient and remainder.

2304 ÷ 43

SOLUTION

```
     53
23)2304
 - 215
   0154
 - 129
    025
```

Quotient = 53

Remainder = 25

Problem Set 15 | Q 1.6 | Page 19

Solve the following and write the quotient and remainder.
56,741 ÷ 26

SOLUTION

```
     2182
26)56741
 - 52
    047
  - 26
    214
 - 208
   0061
  - 52
   0009
```

Quotient = 2182

Remainder = 9

Problem Set 15 | Q 2 | Page 19

How many hours will it take to travel 336 km at a speed of 48 km per hour?

SOLUTION

Time = Distance + Speed

7

48)**336**

- 336

000

It will take 7 hours.

Problem Set 15 | Q 3 | Page 19

Girija needed 35 cartons to pack 1400 books. There are an equal number of books in every carton. How many books did she pack into each carton?

SOLUTION

No. of cartons x No. of books in each carton= Total no. of books ·
35 x No. of books in each carton= 1400 No. of books in each carton= 1400 + 35

40

35)**1400**

- 1400

0000

She packs 40 books in each carton.

Problem Set 15 | Q 4 | Page 19

The contribution for a picnic was 65 rupees each. Altogether, 2925 rupees were collected. How many had paid for the picnic?

SOLUTION

45

65)**2925**

- 260

0325

- 325

000

45 persons paid for the picnic.

Problem Set 15 | Q 5 | Page 19
Which number, on being multiplied by 56, gives a product of 9688?

SOLUTION

```
   173
56)9688
 - 56
   408
 - 392
   168
 - 168
   000
```

Problem Set 15 | Q 6 | Page 20
If 48 sheets are required for making one notebook, how many notebooks at the most will 5880 sheets make, and how many sheets will be leftover?

SOLUTION

```
   122
56)5880
 - 48
   108
 - 96
   0120
 - 96
   024
```

122 notebooks can be made and 24 sheets left over.

Problem Set 15 | Q 7 | Page 20
What will the quotient be when the smallest five-digit number is divided by the smallest four-digit number?

SOLUTION

Smallest five-digit number is 10,000 and smallest four-digit number is 1,000.
So, 10000 + 1000 = 10

```
      10
1000)10000
   - 1000
     00000
```

Quotient = 10

PROBLEM SET 16 [PAGE 20]

Problem Set 16 | Q 1 | Page 20

From a total of 10,000 rupees, Anna donated 7,000 rupees to a school. The remaining amount was to be divided equally among six students as the ‘all-round student’ prize. What was the amount of each prize?

SOLUTION

```
 10000 Total rupees
- 7000 rupees donated
  3000 remained
```

This amount was divided among 6 students

```
   500
6)3000
- 30
  0000
```

Amount of the prize is ₹ 500.

Problem Set 16 | Q 2 | Page 20

An amount of 260 rupees each was collected from 50 students for a picnic. If 11,450 rupees were spent for the picnic, what is the amount left over?

SOLUTION

```
   260 Collected from 1 student
 x  50 No. of students
   000
+ 13000
  13000 Rupees, collected amount
```

- 11450 Rupees spent
1550 Rupees left over

1,550 Rupees left over

Problem Set 16 | Q 3 | Page 20
A shopkeeper bought a sack of 50kg of sugar for 1750 rupees. As the price of sugar fell, he had to sell it at the rate of 32 rupees per kilo. How much less money did he get than he had spent?

SOLUTION

32 Sale price of 1 kg
x 50 kg sold
00
+ 1600
1600 Amount received

1750 Purchased price
- 1600 Obtained price
150 Less he got

₹ 150 less he got than he had spent

Problem Set 16 | Q 4 | Page 20
A shopkeeper bought 7 pressure cookers at the rate of 1870 rupees per cooker. He sold them all for a total of 14,230 rupees. Did he get less or more money than he had spent?

SOLUTION

1870 Purchase price of 1 cooker
x 7 No. of cookers
13090 Purchase price

14230 Sell price
- 13090 Purchase price
01140 he got more

₹ 1,140 he got more

Problem Set 16 | Q 5 | Page 20
Fourteen families in a Society together bought 8 sacks of wheat, each weighing 98 kilos. If they shared all the wheat equally, what was the share of each family?

SOLUTION

98 Kilo weight of 1 sack

x 8 No. of sacks

784 Kilo

56

14)784

- 70

084

- 84

00

Share of each family = 56 kilo

Problem Set 16 | Q 6 | Page 20

The capacity of an overhead water tank is 3000 litres. There are 16 families living in this building. If each family uses 225 litres every day, will the tank filled to capacity be enough for all the families? If not, what will the daily shortfall be?

SOLUTION

225 Litres uses 1 family

x 16 No. of families

1350

+ 2250

3600 Litres required

- 3000 Litres capacity

600 Litres daily shortfall

600 litres is daily shortfall