

Veda International School



Kusugal Road, Hubballi (ICSE Board)

Chapter – 4 Multiplication and Division

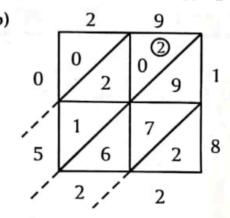
Lesson-4: Multiplication and Division

Exercise-1

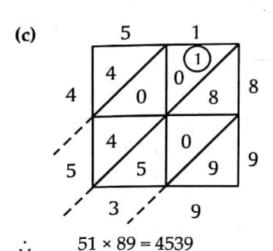
On dividing 2000 by 24, we get 83 as the quotient. So, the battery life is 83 days.

(b)
$$\begin{array}{r} 1 & 6 \\ 6 \\ \hline 6 \\ 9 & 7 \\ \hline -6 \\ \hline 3 & 7 \\ \hline -3 & 6 \\ \hline 1 \\ Q = 1 & 6 \\ R = 1 \end{array}$$

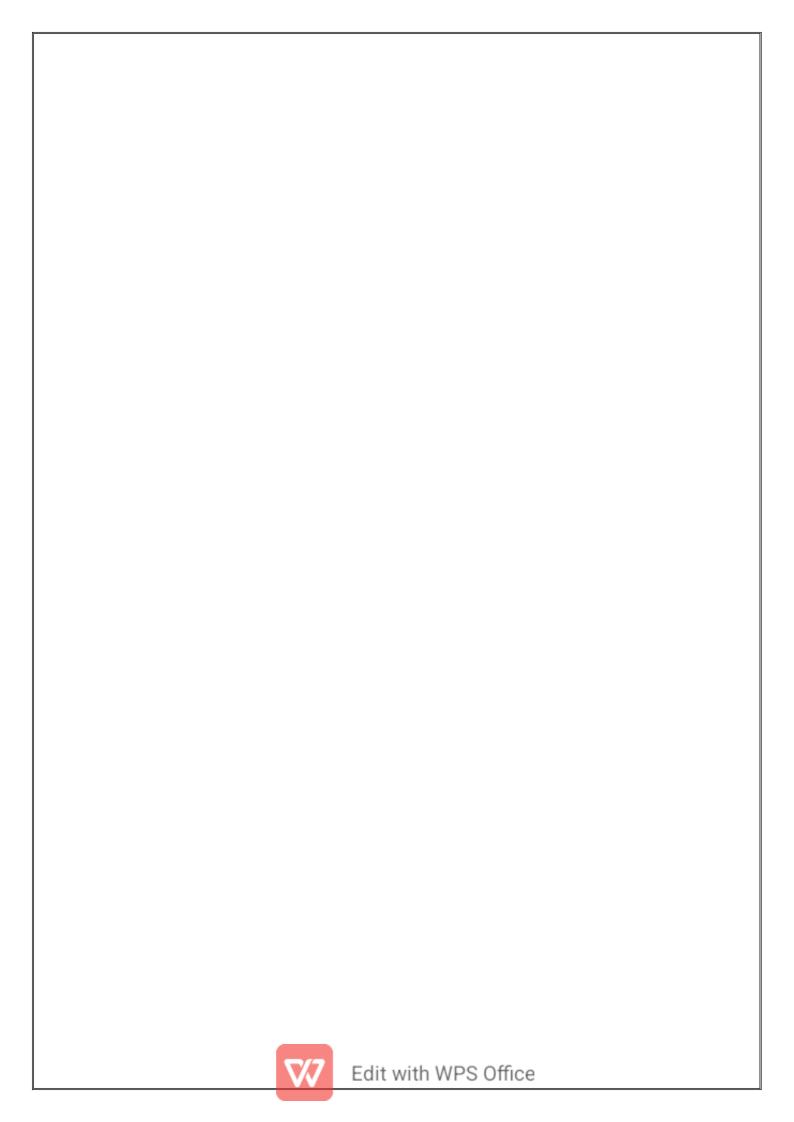
(c)
$$247$$
3) 743
 -6
 14
 -12
 23
 -21
 2
 $Q=247$
 $R=2$



 \therefore 29 × 18 = 522







1.
$$\begin{array}{r}
1 & 4 & 2 \\
 & \times & 1 & 2 \\
\hline
2 & 8 & 4 \\
+ & 1 & 4 & 2 & 0 \\
\hline
1 & 7 & 0 & 4
\end{array}$$

2.
$$213$$
 $\times 23$
 $\overline{639}$
 $+4260$
 $\overline{4899}$

3.
$$\begin{array}{r} 2 & 0 & 2 \\ \times & 1 & 1 \\ \hline 2 & 0 & 2 \\ + & 2 & 0 & 2 & 0 \\ \hline 2 & 2 & 2 & 2 \end{array}$$

6.
$$\begin{array}{r} 2 & 0 & 4 \\ \times & 2 & 2 \\ \hline 4 & 0 & 8 \\ + & 4 & 0 & 8 & 0 \\ \hline 4 & 4 & 8 & 8 \\ \end{array}$$

Fun Time (Page 41)

$$A : 48 \times 5 = 240$$

$$I : 11 \times 80 = 880$$

$$O: 97 \times 35 = 3395$$

$$B : 178 \times 7 = 1246$$

$$L: 84 \times 9 = 756$$

$$R:912 \times 8 = 7296$$

$$H : 27 \times 25 = 675$$

$$N: 62 \times 18 = 1116$$

$$T: 27 \times 100 = 2700$$

$$\frac{H}{675}$$
 $\frac{O}{3395}$ $\frac{T}{2700}$ $\frac{D}{D}$ $\frac{D}{D}$ $\frac{D}{D}$

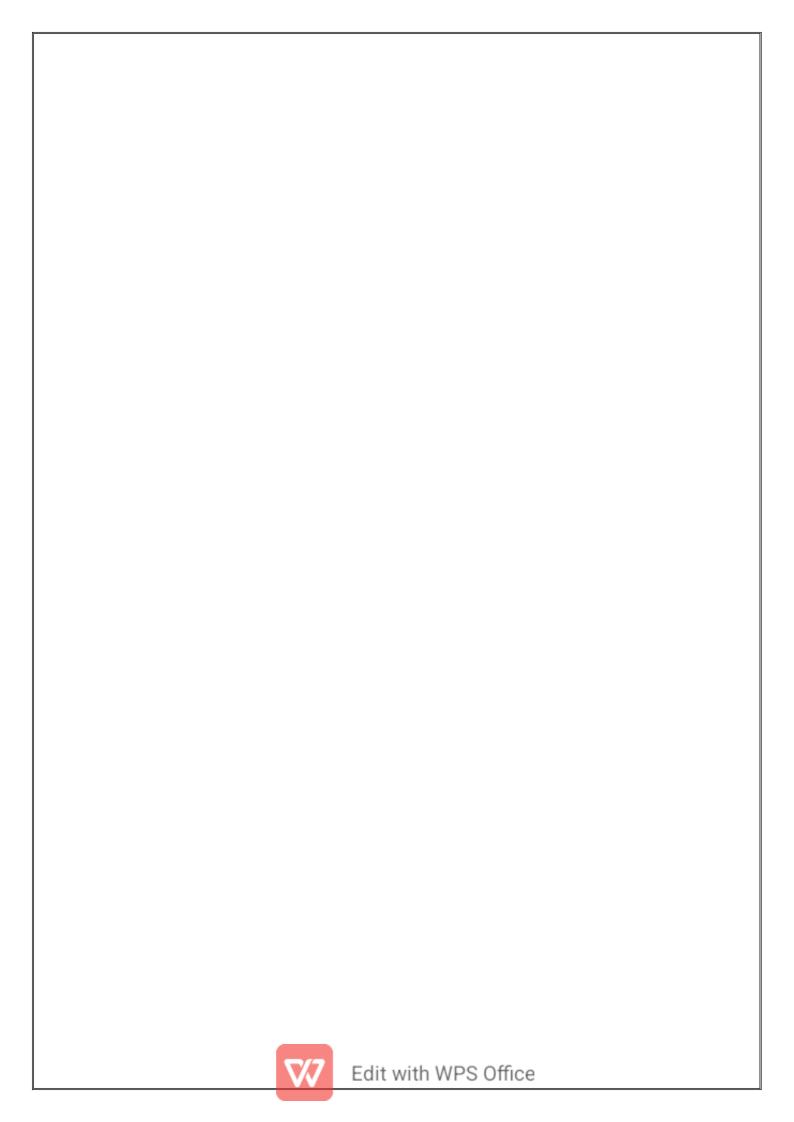
$$\frac{A}{240} \quad \frac{I}{880} \quad \frac{R}{7296}$$

$$\frac{B}{1246} \quad \frac{A}{240} \quad \frac{L}{756}$$

Exercise-4

3.
$$\begin{array}{r} 278 \\ \times 31 \\ \hline 278 \\ + 8340 \\ \hline 8618 \\ \end{array}$$





2.
$$648$$

$$\times 227$$

$$4536$$

$$12960$$

$$+129600$$

$$147096$$

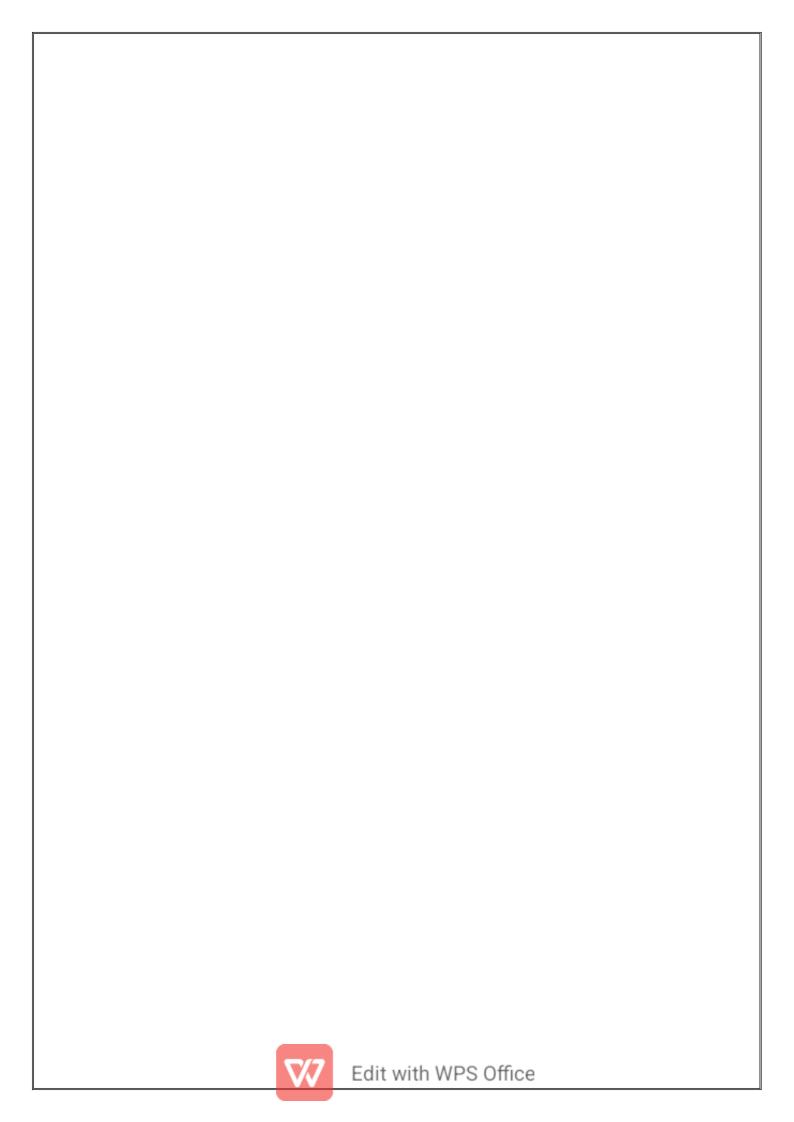
3.
$$\begin{array}{r} 555 \\ \times 145 \\ \hline 2775 \\ 22200 \\ +55500 \\ \hline 80475 \end{array}$$

4.
$$\begin{array}{r}
732 \\
\times 198 \\
\hline
5856 \\
65880 \\
+73200 \\
\hline
144936
\end{array}$$

5.
$$\begin{array}{r}
245 \\
\times 155 \\
\hline
1225 \\
12250 \\
+ 24500 \\
\hline
37975
\end{array}$$

6.
$$\begin{array}{r}
2154 \\
\times 124 \\
\hline
8616 \\
43080 \\
+215400 \\
\hline
267096
\end{array}$$

Edit with WPS Office



(b) (iv)
$$6359 \times 3000 = 6359 \times 3 \times 1000 = 19077 \times 1000 = 19077000$$

2. (a)
$$178 \times 40 = (178 \times 4) \times 10 = 712 \times 10 = 7120$$

(b)
$$861 \times 900 = (861 \times 9) \times 100 = 7749 \times 100 = 774900$$

(c)
$$9297 \times 5000 = (9297 \times 5) \times 1000 = 46485 \times 1000 = 46485000$$

4. (a)
$$72 \times 25 = 72 \times 100 \times \frac{1}{4} = 7200 \times \frac{1}{4} = 1800$$

(b)
$$1792 \times 5 = 1792 \times 10 \times \frac{1}{2} = 17920 \times \frac{1}{2} = 8960$$

(c)
$$971 \times 50 = 971 \times 100 \times \frac{1}{2} = 97100 \times \frac{1}{2} = 48550$$

(d)
$$284 \times 5 = 284 \times 10 \times \frac{1}{2} = 2840 \times \frac{1}{2} = 1420$$

(e)
$$546 \times 25 = 546 \times 100 \times \frac{1}{4} = 54600 \times \frac{1}{4} = 13650$$

(f)
$$1242 \times 50 = 1242 \times 100 \times \frac{1}{2} = 124200 \times \frac{1}{2} = 62100$$

5. (a)
$$58 \times 107 = 58 \times (100 + 7) = 58 \times 100 + 58 \times 7$$

(b)
$$83 \times 96 = 83 \times (100 - 4) = 83 \times 100 - 83 \times 4$$

$$= 8300 - 332 = 7968$$

(c)
$$42 \times 172 = 42 \times (100 + 70 + 2) = 42 \times 100 + 42 \times 70 + 42 \times 2$$

$$= 4200 + (42 \times 7) \times 10 + 84$$

$$= 4200 + 294 \times 10 + 84$$

$$= 4200 + 2940 + 84 = 7224$$

(d)
$$18 \times 3065 = 18 \times (3000 + 60 + 5) = 18 \times 3000 + 18 \times 60 + 18 \times 5$$

$$= 54000 + 1080 + 90 = 55170$$

(e)
$$67 \times 99 = 67 \times (100 - 1) = 67 \times 100 - 67 \times 1 = 6700 - 67$$

$$= 6633$$

(f)
$$73 \times 998 = 73 \times (1000 - 2) = 73 \times 1000 - 73 \times 2$$

$$= 73000 - 146 = 72854$$



So,

Greatest 3-digit number = 999

Required product =
$$9999 \times 999 = 9999 \times (1000 - 1)$$

$$= 9999000 - 9999 = 9989001$$

Puzzle (Page 44)

$$532 = (5 \times 3) (5 \times 2) (3 \times 2) = 151006$$

$$924 = (9 \times 2) (9 \times 4) (2 \times 4) = 183608$$

$$863 = (8 \times 6) (8 \times 3) (6 \times 3) = 482418$$

$$545 = (5 \times 4) (5 \times 5) (4 \times 5) = 202520$$

$$955 = (9 \times 5)(9 \times 5)(5 \times 5) = 454525$$

Exercise-7

1.	(a)	(i) Cost of a chair = ₹485	5 1 1 2 2 2 3 3 4 1	485
	(/	The state of the s		× 24
		∴ Total cost of 24 chairs	= < 485 × 24	1940
			= ₹11640	+9700

Thus, the total cost of 24 chairs is ₹ 11,640. 11640

Hence, each student will pay ₹ 30,600 as 30600 fees in a year.

(c) (iii) Number of days in one year = 365
Number of hours in one day = 24
Number of hours in one year =
$$365 \times 24$$

= 8760

	Hence, there are 8760 hours in one year.	8700
(d)	(iv) Milk booth sells 448 litres of milk in a day.	4 4 8
	Quantity of milk sold in a year	× 3 6 5
	$= 365 \times 448 \text{ litres} = 1,63,520 \text{ litres}$	2 2 4 0
		$ \begin{array}{c} 2 & 6 & 8 & 8 & 0 \\ +1 & 3 & 4 & 4 & 0 & 0 \\ \hline 1 & 6 & 3 & 5 & 2 & 0 \end{array} $



2. Number of toys produced in a week = 3452

Number of weeks in one year = 52			3	4	5	2	
Number of weeks in two years $= 52 \times 2$	a		×	1	0	4	
= 104	=	1	3	8	0	8	
Total number of toys produced in two years		0	0	0	0	0	
= 3452 × 104	+3	4	5	2	0	0	
= 3 59 008	3	5	9	0	0	8	

Thus, the factory will produce 3,59,008 toys in two years.

3. Number of pages in one book	= 328	u Gilling		7	1	2	5
No. 1 - of managin 7125 hanks				×	3	2	8_
Number of pages in 7125 books	= /125 × 326			5 7	0	0	0
Philips 11 sp 1	= 23,37,000	CITY LAN	1	4 2	5	0	0
	F = 1300k - P	+ 2	1	3 7	5	0	0
22 27 000		2	3	3 7	0	0	0

Hence, 23,37,000 pages were printed.

4. Number of employees = 373

Bonus amount per employee = ₹ 8040

Total bonus amount = ₹ 8040 × 373 = ₹ 29.98.920 +2.4.1.2.0.0.0

Exercise-8

1. 358 is rounded off to the nearest hundreds as 400.

326 is rounded off to the nearest hundreds as 300.

Estimated product = $400 \times 300 = 120000$

2. 2250 is rounded off to the nearest thousands as 2000.

65 is rounded off to the nearest tens as 70.

Estimated product = $2000 \times 70 = 140000$

3. 3998 is rounded off to the nearest thousands as 4000.

41 is rounded off to the nearest tens as 40.

Estimated product = $4000 \times 40 = 160000$

4. 341 is rounded off to the nearest hundreds as 300.

267 is rounded off to the nearest hundreds as 300.

Estimated product = $300 \times 300 = 90000$

5. 279 is rounded off to the nearest hundreds as 300.

79 is rounded off to the nearest tens as 80.

Estimated product = $300 \times 80 = 24000$

6. 699 is rounded off to the nearest hundreds as 700.

499 is rounded off to the nearest hundreds as 500.

Estimated product = $700 \times 500 = 350000$

7. 499 is rounded off to the nearest hundreds as 500.

501 is rounded off to the nearest hundreds as 500.

Estimated product = $500 \times 500 = 250000$

8. 8985 is rounded off to the nearest thousands as 9000.

74 is rounded off to the nearest tens as 70.

Estimated product = $9000 \times 70 = 630000$

9. 3636 is rounded off to the nearest thousands as 4000.

Q = 531.

R = 8

63 is rounded off to the nearest tens as 60.

Estimated product = $4000 \times 60 = 240000$

Exercise-9

1.

531
9 4787
-45
28
- 27
17
- 9
8

Checking:

Divisor × Quotient + Remainder

 $= 9 \times 531 + 8$

= 4779 + 8

= Dividend

5 3 1

= 4787

4779

2.

Q = 2310,

Divisor × Quotient + Remainder

$$= 6 \times 2310 + 5$$

$$= 13860 + 5$$

Dividend

2 3 1 0

$$R = 5$$
 = 13865

18

18

Checking:

Divisor × Quotient + Remainder

$$= 9 \times 6979 + 6$$

$$= 62811 + 6$$

1

4.
$$29$$
 $12 \overline{\smash{\big)}\ 348}$
 -24
 $\overline{\smash{\big)}\ 108}$
 -108
 $\overline{\smash{\big)}\ 0}$
 $Q = 29$,
 $R = 0$

Divisor × Quotient + Remainder

$$= 12 \times 29 + 0$$

5.
$$\begin{array}{r}
35 \\
17 \overline{\smash{\big)}607} \\
-51 \\
\overline{97} \\
-85 \\
\overline{12}
\end{array}$$
 Q = 35, R = 12

Checking:

Divisor × Quotient + Remainder

$$= 17 \times 35 + 12$$

$$35 + 12$$

$$= 595 + 12$$

6.
$$\begin{array}{c|c}
50 \\
15 \overline{\smash)759} \\
-75 \\
\hline
09 \\
-0 \\
\hline
9
\end{array}$$
 $Q = 50,$
 $R = 9$

Divisor × Quotient + Remainder

$$= 15 \times 50 + 9$$

5

7.
$$204$$
 21
 4287
 -42

$$Q = 204$$
,

$$= 21 \times 204 + 3$$

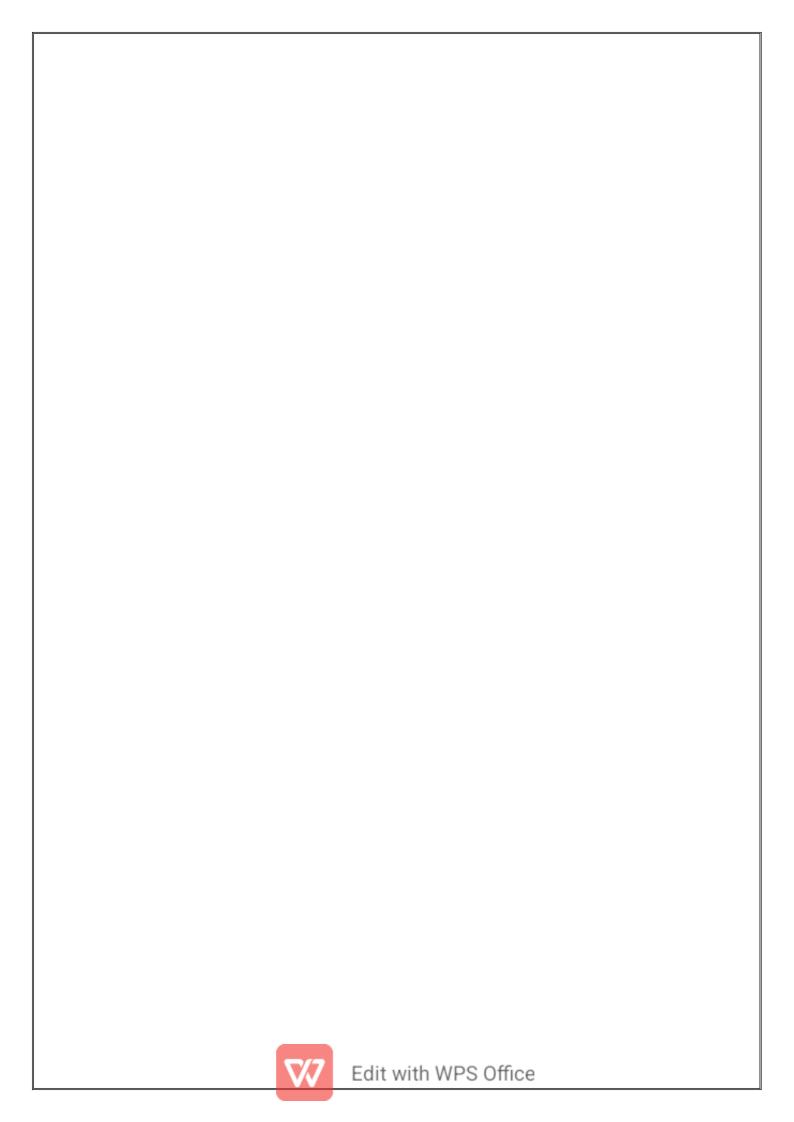
Checking:

$$R=3$$

$$= 4284 + 3$$

 $= 4287$

$$\frac{-84}{3}$$



8. 273

9289 68 248

$$Q = 273,$$

$$R = 7$$

Q = 246,

R = 32

Q = 188,

R = 0

Q = 1456,

109 - 102

246

8888

72

168

144

- 216 32

188

369

336

- 336

336

1456

42238

238

Checking:

Divisor × Quotient + Remainder

$$= 34 \times 273 + 7$$

2 7 3

$$= 9282 + 7$$

+819

9282

9.

Checking:

Divisor × Quotient + Remainder

$$= 36 \times 246 + 32$$

2 4 6

$$= 8856 + 32$$

 \times 3 6

1476

+7380 88 5 6

10.

Checking:

Divisor × Quotient + Remainder

$$= 42 \times 188 + 0$$

1 8 8

= 7896

 \times 4 2

+7520

7896

11.

Checking:

Divisor × Quotient + Remainder

$$= 29 \times 1456 + 14$$

= 42224 + 14

1 4 5 6

29

132

$$R = 14 = 42238$$

14

- 174

1. (a) (ii) Dividend = Divisor × Quotient + Remainder
=
$$35 \times 22 + 14 = 770 + 14 = 784$$

Thus, the required number is 784.

$$3699 = Divisor \times 231 + 3$$

$$\Rightarrow$$
 3699 – 3 = Divisor × 231

$$\Rightarrow$$
 3696 = Divisor × 231

$$\Rightarrow$$
 Divisor = $3696 \div 231 = 16$

Thus, the required number is 16.

3.

	By 10		By 100		By 1000		
(a)	8540	0	854	0	85	400	
(b)	82160	. 0	8216	0	821	600	
(c)	97480	0	9748	0	974	800	
(d)	9600	0	960	0	96	0	
(e)	48600	0	4860	0	486	0	
(f)	77000	0	7700	0	770	0	
(g)	336000	0	33600	0	3360	0	
(h)	987645	0	98764	50	9876	450	



1. (a) (i) Number of plants planted in 46 days =
$$2,77,196$$

Number of plants planted each day 4
= $2,77,196 \div 46 = 6026$

$$\begin{array}{r}
6026 \\
46 \overline{\smash)277196} \\
-276 \\
\hline
11 \\
-0 \\
\hline
119 \\
-92 \\
\hline
276 \\
-276 \\
\hline
0
\end{array}$$

(d) (iv) Number of buses required =
$$\frac{4875}{75}$$
 = 65 $\frac{75}{4875}$ = 65 $\frac{4875}{375}$ = 375

2. The greatest 7-digit number = 9999999

The greatest 2-digit number = 99

19 balls will be left out.

- 3. Total number of balls = 5255

 Number of boxes to be filled = 34

 Number of balls in each box = 5255 ÷ 34

 On dividing 5255 by 34, we get 154 as the quotient and 19 as the remainder.

 Thus, 154 balls will be filled in each box and $34 \\
 -34 \\
 185 \\
 -170 \\
 155 \\
 -136 \\
 19$
- 7142 4. The greatest 5-digit number is 99999. 99999 99999 ÷ 14 gives 7142 as the quotient and 11 as the 98 remainder. 19 Now, 99999 - 11 = 9998814 59 99988 is exactly divisible by 14. - 56 So, the greatest 5-digit number exactly divisible 39 by 14 is 99988. - 28

11

5. Number of chairs that can be bought
= 3500 ÷ 67

3500 ÷ 67 gives 52 as the quotient and
16 as the remainder.

So, I can buy 52 chairs and ₹ 16 are left with me.

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$$= (31755 \div 365) = 87$$

 134 is rounded off to 100 (nearest hundreds) and 22 is rounded off to 20 (nearest tens).

$$100 \div 20 = 5$$
.

So, the estimated quotient is 5.

179 is rounded off to 200 (nearest hundreds) and 18 is rounded off to 20 (nearest tens).

$$200 \div 20 = 10$$
.

So, the estimated quotient is 10.

 393 is rounded off to 400 (nearest hundreds) and 17 is rounded off to 20 (nearest tens).

$$400 \div 20 = 20$$
.

So, the estimated quotient is 20.

201 is rounded off to 200 (nearest hundreds) and 47 is rounded off to 50 (nearest tens).

$$200 \div 50 = 4$$
.

So, the estimated quotient is 4.

198 is rounded off to 200 (nearest hundreds) and 11 is rounded off to 10 (nearest tens).

$$200 \div 10 = 20$$
.

So, the estimated quotient is 20.

438 is rounded off to 400 (nearest hundreds) and 24 is rounded off to 20 (nearest tens).

$$400 \div 20 = 20$$
.

So, the estimated quotient is 20.

579 is rounded off to 600 (nearest hundreds) and 35 is rounded off to 40 (nearest tens).

$$600 \div 40 = 15$$
.

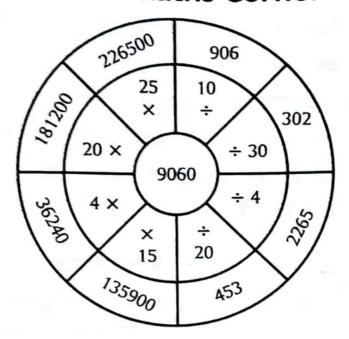
So, the estimated quotient is 15.

8. 810 is rounded off to 800 (nearest hundreds) and 52 is rounded off to 50 (nearest tens).

$$800 \div 50 = 16$$

So, the estimated quotient is 16 WPS Office

Mental Maths Corner



Teacher Signature

HOD Signature

Principal Signature



