

Magic Mathematics (Book 3)

Chapter 1 : Number System

Exercise 1

1. Write in Hindu-Arabic numeral :

- a) 6 b) 16 c) 30
d) 13 e) 50 f) 9

2. Write in Roman numeral :

- a) XXV b) IV c) X
d) XII e) XV f) L

3. Write whether the number is odd or even :

- a) odd b) even c) odd
d) odd e) odd f) even

4. Do it yourself.

5. Add the following numbers and write whether the sum is even or odd:

- a) 5, odd b) 7, odd c) 10 even
d) 8 even e) 9 odd f) 9 odd

6. Fill in the blanks :

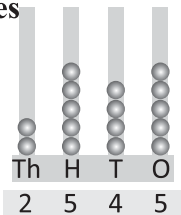
- a) 210, 220, 230, 240, 250, 260
b) 200, 201, 202, 203, 204, 205
c) 621, 622, 623, 624, 625, 626
d) 992, 993, 994, 995, 996, 997

Chapter 2 : Number Names and Their Place Values

Exercise 2.1

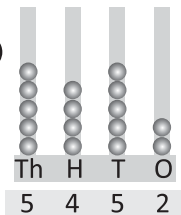
1. Read the abacus and write the numerals and their number names

a)



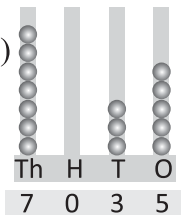
Two thousand five hundred forty five

b)

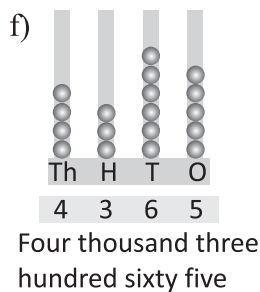
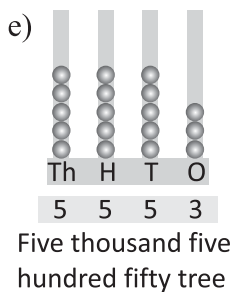
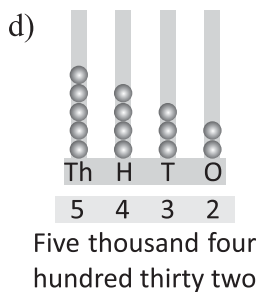


Five thousand four hundred fifty two

c)



Seven thousand thirty five



2. Write the number name.

- 2436 – Two thousand four hundred thirty six
- 4798 – Four thousand seven hundred ninety eight
- 3124 – Three thousand one hundred twenty four
- 2518 – Two thousand five hundred eighteen

Exercise 2.2

1. Give the expanded form of the following.

- $6451 = 6000 + 400 + 50 + 1$
- $6584 = 6000 + 500 + 80 + 4$
- $4325 = 4000 + 300 + 20 + 5$
- $5374 = 5000 + 300 + 70 + 4$

2. Write the following numbers in short form.

- $5000 + 700 + 40 + 6 = 5746$
- $6000 + 400 + 50 + 4 = 6454$
- $8000 + 400 + 70 + 6 = 8476$
- $7000 + 600 + 5 = 7605$

3. Write the predecessor and the successor of the following numbers :

Predecessor		Successor
5647	5648	5649
4562	4563	4564
5417	5418	5419
2484	2485	2486
3464	3465	3466

- Rewrite the following numbers in increasing order :**
 - $1024 < 1200 < 1645 < 4865$
 - $846 < 1254 < 5426 < 6258$
- Rewrite the following numbers in decreasing order :**
 - $6418 > 5420 > 2317 > 1746$
 - $7458 > 4256 > 3418 > 975$
- Compare the following numbers with correct sign $>$ or $<$ in the boxes :**
 - $>$
 - $<$
 - $<$
 - $>$
- Write the greatest and the smallest 3-digit number in the box, using each digit only once :**

Digits	Greatest Number	Smallest Number
a) 7, 2, 5	752	257
b) 4, 0, 2	420	204
- Form the greatest and smallest 4-digit number in the box, using each digit only once :**

Digits	Greatest Number	Smallest Number
a) 7, 0, 1, 9	9710	1079
b) 6, 2, 8, 0	8620	2068
- Place $>$, $<$ or $=$ in the boxes to make the statement true :**
 - $>$
 - $=$
 - $<$
 - $=$

Chapter 3 : Addition

Exercise 3.1

1. Add :

(a)

H	T	O
3	3	3
+	2	5
2	5	2
5	8	5

(b)

H	T	O
5	1	5
+	2	4
2	4	3
7	5	8

(c)

H	T	O
2	6	4
+	2	1
2	1	5
4	7	9

(d)

H	T	O
4	2	4
+	2	4
2	4	5
6	6	9

(e)

H	T	O
3	1	2
+	4	5
4	5	3
7	6	5

(f)

H	T	O
3	2	5
+	1	3
1	3	4
4	5	9

(g)	$ \begin{array}{r} \text{H T O} \\ 4\ 2\ 0 \\ +\ 1\ 6\ 3 \\ +\ 1\ 1\ 5 \\ \hline 6\ 9\ 8 \end{array} $	(h)	$ \begin{array}{r} \text{H T O} \\ 2\ 2\ 2 \\ +\ 1\ 5\ 3 \\ +\ 1\ 2\ 2 \\ \hline 4\ 9\ 7 \end{array} $	(i)	$ \begin{array}{r} \text{H T O} \\ 4\ 4\ 0 \\ +\ 1\ 2\ 5 \\ +\ 3\ 2\ 3 \\ \hline 8\ 8\ 8 \end{array} $
(j)	$ \begin{array}{r} \text{H T O} \\ 3\ 3\ 1 \\ +\ 2\ 1\ 6 \\ +\ 2\ 0\ 2 \\ \hline 7\ 4\ 9 \end{array} $	(k)	$ \begin{array}{r} \text{H T O} \\ 3\ 3\ 3 \\ +\ 2\ 1\ 4 \\ +\ 1\ 1\ 1 \\ \hline 6\ 5\ 8 \end{array} $	(l)	$ \begin{array}{r} \text{H T O} \\ 7\ 1\ 5 \\ +\ 1\ 2\ 2 \\ +\ 1\ 3\ 1 \\ \hline 9\ 6\ 3 \end{array} $

2. Arrange in columns and find the sum of:

(a)	$ \begin{array}{r} \text{H T O} \\ 4\ 2\ 3 \\ +\ 1\ 0\ 5 \\ \hline 5\ 2\ 8 \end{array} $	(b)	$ \begin{array}{r} \text{H T O} \\ 2\ 0\ 4 \\ +\ 6\ 2\ 2 \\ \hline 8\ 2\ 6 \end{array} $	(c)	$ \begin{array}{r} \text{H T O} \\ 4\ 0\ 1 \\ +\ 1\ 2\ 2 \\ +\ 1\ 3\ 2 \\ \hline 6\ 5\ 5 \end{array} $
-----	--	-----	--	-----	---

3. (a)	$ \begin{array}{r} \text{H T O} \\ 2\ 5\ 2 \\ +\ 2\ 1\ 3 \\ \hline 4\ 6\ 5 \end{array} $	(b)	$ \begin{array}{r} \text{H T O} \\ 1\ 2\ 3 \\ +\ 3\ 2\ 4 \\ \hline 4\ 4\ 7 \end{array} $	(c)	$ \begin{array}{r} \text{H T O} \\ 4\ 4\ 0 \\ +\ 3\ 3\ 2 \\ \hline 7\ 7\ 2 \end{array} $
--------	--	-----	--	-----	--

(d)	$ \begin{array}{r} \text{H T O} \\ 4\ 3\ 5 \\ +\ 1\ 4\ 3 \\ \hline 5\ 7\ 8 \end{array} $	(e)	$ \begin{array}{r} \text{H T O} \\ 2\ 3\ 5 \\ +\ 1\ 5\ 4 \\ \hline 3\ 8\ 9 \end{array} $	(f)	$ \begin{array}{r} \text{H T O} \\ 1\ 7\ 3 \\ +\ 3\ 2\ 3 \\ \hline 4\ 9\ 6 \end{array} $
-----	--	-----	--	-----	--

(g)	$ \begin{array}{r} \text{H T O} \\ 2\ 2\ 1 \\ +\ 1\ 2\ 5 \\ +\ 1\ 3\ 2 \\ \hline 4\ 7\ 8 \end{array} $	(h)	$ \begin{array}{r} \text{H T O} \\ 1\ 1\ 2 \\ +\ 2\ 2\ 3 \\ +\ 1\ 4\ 4 \\ \hline 4\ 7\ 9 \end{array} $	(i)	$ \begin{array}{r} \text{H T O} \\ 4\ 2\ 0 \\ +\ 2\ 1\ 6 \\ +\ 1\ 1\ 2 \\ \hline 7\ 4\ 8 \end{array} $
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Exercise 3.2

1. Add:

(a)

	H	T	O
	3	2	3
+	4	2	5
	7	4	8

(b)

	H	T	O
	8	1	5
+	1	7	4
	9	8	5

(c)

	H	T	O
	4	6	8
+	3	2	4
	7	9	2

(d)

	H	T	O
	4	2	2
+	1	5	4
	5	7	6

(e)

	H	T	O
	2	2	1
+	3	5	8
	5	7	9

(f)

	H	T	O
	2	3	4
+	1	2	3
	3	5	7

(g)

	H	T	O
	2	3	7
+	4	3	2
+	2	4	0
	9	0	9

(h)

	H	T	O	
	7	0	5	
+	3	5	2	
+	1	6	3	
	1	2	2	0

(i)

	H	T	O
	5	8	1
+	2	6	6
+	1	5	4
	9	0	1

(j)

	H	T	O
	2	2	4
+	3	3	8
+	1	5	4
	7	1	6

(k)

	H	T	O
	2	3	3
+	2	8	5
+	1	0	3
	6	2	1

(l)

	H	T	O
	2	3	7
+	2	7	2
+	1	2	1
	6	3	0

(m)

	H	T	O
	2	3	8
+	2	8	8
+	1	2	2
	6	4	8

(n)

	H	T	O
	1	2	7
+	2	6	7
+	2	1	5
	6	0	9

(o)

	H	T	O
	2	3	3
+	1	5	9
+	1	2	5
	5	1	7

2. Arrange in columns and find the sum of:

(a)

	H	T	O
	4	6	2
+	5	8	1
	1	0	4
	3		

(b)

	H	T	O
	3	5	8
+	2	9	5
	6	5	3

(c)

	H	T	O
	1	8	5
	6	3	2
+	3	5	8
	1	1	7
	5		

(d)

	H	T	O
	1	5	0
	6	9	5
+	2	0	6
	1	0	5
	1		

(e)

	H	T	O
	4	1	6
	3	1	5
+	2	0	2
	9	3	3

(f)

	H	T	O
	3	1	7
	4	8	2
+	8	1	8
	1	6	1
	7		

3. Fill in the boxes:

(a)

	H	T	O
	4	3	8
+	1	7	6
	6	1	4

(b)

	H	T	O
	2	3	6
+	0	7	8
	3	1	4

(c)

	H	T	O
	4	5	6
+	1	5	8
	6	1	4

(d)

	H	T	O
	2	5	4
+	1	2	9
	3	8	3

(e)

	H	T	O
	3	3	6
+	2	8	8
	6	2	4

(f)

	H	T	O
	4	2	8
+	2	9	6
	7	2	4

(g)

	H	T	O
	3	2	8
+	1	6	2
+	2	3	6
	7	2	6

(h)

	H	T	O
	3	7	7
+	1	2	6
+	1	4	3
	6	4	6

(i)

	H	T	O
	2	2	6
+	1	6	3
+	3	9	5
	7	8	4

(j)

	H	T	O
	4	2	9
+		8	4
+	1	2	5
8 3 8			

(k)

	H	T	O
	2	7	9
+	2	3	4
+	2	5	6
7 6 9			

(l)

	H	T	O
	1	6	7
+	2	6	9
+	2	3	8
6 7 4			

(m)

	H	T	O
	2	3	8
+		8	8
+	1	2	2
4 4 8			

(n)

	H	T	O
	1	2	7
+	2	6	7
+	2	1	5
6 0 9			

(o)

	H	T	O
	2	3	3
+	1	5	9
+	1	2	5
5 1 7			

Exercise 3.3

1. Add:

(a)

	Th	H	T	O
	4	2	1	3
+	3	5	7	1
7 7 8 4				

(b)

	Th	H	T	O
	1	8	5	5
+	6	1	3	4
7 9 8 9				

(c)

	Th	H	T	O
	2	3	6	4
+	3	3	3	3
5 6 9 7				

(d)

	Th	H	T	O
	5	1	3	6
+	3	4	2	2
8 5 5 8				

(e)

	Th	H	T	O
	4	5	3	2
+	3	2	5	6
7 7 8 8				

(f)

	Th	H	T	O
	2	7	6	4
+	6	2	2	3
8 9 8 7				

(g)

	Th	H	T	O
	2	4	4	0
+	1	3	3	7
3 7 7 7				

(h)

	Th	H	T	O
	4	1	3	6
+	3	5	5	3
7 6 8 9				

(i)

	Th	H	T	O
	5	6	4	2
+	1	3	5	6
6 9 9 8				

(j)

	Th	H	T	O
	2	2	1	4
+	1	2	3	1
+	1	4	3	4
4 8 7 9				

(k)

	Th	H	T	O
	5	2	6	3
+	2	2	0	0
+	1	4	2	5
8 8 8 8				

(l)

	Th	H	T	O
	2	3	2	0
+	2	4	3	6
+	4	2	3	2
8 9 8 8				

(m)

Th	H	T	O
5	2	1	2
+	1	2	4
+	2	3	3
8 7 6 8			

(n)

Th	H	T	O
5	2	0	7
+	2	3	3
+	1	2	6
8 7 9 9			

(o)

Th	H	T	O
2	3	3	4
+	1	4	0
+	1	2	6
4 9 9 9			

2. Arrange in columns and add:

(a)

Th	H	T	O
2	5	1	5
+	3	4	4
5 9 5 8			

(b)

Th	H	T	O
4	5	3	4
+	3	1	1
+	3	3	1
7 9 7 7			

(c)

Th	H	T	O
3	2	1	3
+	1	0	1
1 3 0			
4 3 5 8			

(d)

Th	H	T	O
3	1	0	6
+	4	3	1
+	4	0	3
7 4 6 9			

(e)

Th	H	T	O
2	4	2	1
+	3	2	1
+	3	0	2
8 6 5 2			

(f)

Th	H	T	O
2	4	0	1
+	1	0	2
+	4	5	0
7 9 2 9			

3. Fill in the blanks boxes:

(a)

1	2	0	5
4	2	4	2
+	4	3	4
9 7 8 7			

(b)

3	0	6	2
4	6	0	2
+	1	3	1
8 9 7 8			

(c)

5	2	1	4
1	1	0	2
+	2	4	7
8 7 8 9			

(d)

2	4	3	2
4	3	2	0
+	1	2	1
7 9 6 6			

(e)

1	3	5	3
2	3	0	0
+	2	3	1
5 9 6 9			

(f)

3	1	1	6
1	0	4	0
+	1	2	0
5 3 5 9			

Exercise 3.4

1. Fill in the blanks:

- (a) $2879 + 4385 = 4385 + \mathbf{2879}$ (b) $7530 + 2359 = 2359 + \mathbf{7530}$
(c) $\mathbf{4134} + 2845 = 2845 + 4134$ (d) $5425 + 3432 = 3432 + \mathbf{5425}$
(e) $9624 + \mathbf{0} = 9624$ (f) $8295 = 0 + \mathbf{8295}$
(g) $2012 + (1111 + \mathbf{3254}) = (2012 + 1111) + 3254$
2. (a) $321 + 543 + 143 = \mathbf{1007}$ (b) $252 + 324 + 402 = \mathbf{978}$
(c) $310 + 552 + 232 + 117 = \mathbf{1219}$ (d) $346 + 213 + 502 + 428 = \mathbf{1989}$
(e) $375 + 315 + 424 = \mathbf{1114}$ (f) $513 + 243 + 322 + 432 = \mathbf{1510}$
(g) $357 + 135 + 244 = \mathbf{736}$ (h) $351 + 432 + 223 + 243 = \mathbf{1249}$

Exercise 3.5

1. Number of first class tickets = 729
Number of second class tickets = + 320
Total number of tickets were sold = **1049**
Hence, 1049 tickets were sold
2. Number of seeds in blue packet = 620
Number of seeds in white packet = + 352
Total number of seeds in both packets = **972**
Hence, 972 seeds are in the two packets.
3. Number of mangoes in first basket = 624
Number of mangoes in second basket = + 236
Total number of mangoes in the two baskets = **860**
Hence, 860 mangoes are in the two baskets.
4. Aman spend on mobile phone = ₹3770
Aman spend on colour T.V. = + ₹4750
Aman total spend = **₹8520**
Hence, Aman spend ₹8520
5. Fisherman catch the fishes in first day = 645
Fisherman catch the fishes in second day = + 950
Total number of fishes catch by fisherman in two days = **1595**
Hence, 1595 fishes catch by the fisherman in two days.
6. Price of first Television = ₹ 2100
Price of second Television = ₹ 3450
Price of third Television = + ₹ 2430

- Total price of three Television = ₹ 7980
7. The bikes were made in first year = 5854
 The bikes were made in second year = + 3432
 Total bikes were made in two years = 9286
 Hence, 9286 bikes were made in two years.
8. Factory produces bottles in first day = 728
 Factory produces bottles in second day = 816
 Factory produces bottles in third day = + 722
 Total number of bottles produces in three days = 2266
 Hence, 2266 bottles produces in three days.
9. Sachin have the stamps = 645
 Kumud have the stamps = + 375
 Total number of stamps the have altogether = 1020
 Hence, 1020 stamps they have altogether.
10. Mother dairy sold the milk in morning = 5012 litres
 Mother dairy sold the milk in evening = + 4564 litres
 Total milk sold in that day = 9576 litres
 Hence, 9576 litres milk have been sold that day.

Chapter 4 : Subtraction

Exercise 4.1

1. Subtract:

- | (a) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>6</td><td>5</td></tr> <tr><td>-</td><td>4</td><td>2</td><td>3</td></tr> <tr><td colspan="4">3 4 2</td></tr> </tbody> </table> | H | T | O | 7 | 6 | 5 | - | 4 | 2 | 3 | 3 4 2 | | | | (b) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>6</td><td>4</td><td>3</td></tr> <tr><td>-</td><td>5</td><td>2</td><td>2</td></tr> <tr><td colspan="4">1 2 1</td></tr> </tbody> </table> | H | T | O | 6 | 4 | 3 | - | 5 | 2 | 2 | 1 2 1 | | | | (c) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>6</td><td>5</td><td>8</td></tr> <tr><td>-</td><td>5</td><td>4</td><td>6</td></tr> <tr><td colspan="4">1 1 2</td></tr> </tbody> </table> | H | T | O | 6 | 5 | 8 | - | 5 | 4 | 6 | 1 1 2 | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|-------|--|--|--|-----|---|---|---|---|---|---|---|---|---|---|---|-------|--|--|--|-----|---|---|---|---|---|---|---|---|---|---|---|-------|--|--|--|
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 4 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 4 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 5 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 2 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 5 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 5 | 4 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 1 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (d) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>9</td><td>7</td><td>5</td></tr> <tr><td>-</td><td>7</td><td>2</td><td>3</td></tr> <tr><td colspan="4">2 5 2</td></tr> </tbody> </table> | H | T | O | 9 | 7 | 5 | - | 7 | 2 | 3 | 2 5 2 | | | | (e) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>9</td><td>8</td><td>7</td></tr> <tr><td>-</td><td>5</td><td>6</td><td>5</td></tr> <tr><td colspan="4">4 2 2</td></tr> </tbody> </table> | H | T | O | 9 | 8 | 7 | - | 5 | 6 | 5 | 4 2 2 | | | | (f) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>-</td><td>5</td><td>6</td><td>7</td></tr> <tr><td colspan="4">2 2 2</td></tr> </tbody> </table> | H | T | O | 7 | 8 | 9 | - | 5 | 6 | 7 | 2 2 2 | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 7 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 7 | 2 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 5 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 8 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 5 | 6 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 2 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (g) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>8</td><td>7</td><td>6</td></tr> <tr><td>-</td><td>2</td><td>4</td><td>5</td></tr> <tr><td colspan="4">6 3 1</td></tr> </tbody> </table> | H | T | O | 8 | 7 | 6 | - | 2 | 4 | 5 | 6 3 1 | | | | (h) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>5</td><td>7</td><td>9</td></tr> <tr><td>-</td><td>2</td><td>2</td><td>6</td></tr> <tr><td colspan="4">3 5 3</td></tr> </tbody> </table> | H | T | O | 5 | 7 | 9 | - | 2 | 2 | 6 | 3 5 3 | | | | (i) | <table border="0"> <thead> <tr><th>H</th><th>T</th><th>O</th></tr> </thead> <tbody> <tr><td>7</td><td>8</td><td>8</td></tr> <tr><td>-</td><td>2</td><td>6</td><td>3</td></tr> <tr><td colspan="4">5 2 5</td></tr> </tbody> </table> | H | T | O | 7 | 8 | 8 | - | 2 | 6 | 3 | 5 2 5 | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 2 | 4 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 3 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 7 | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 2 | 2 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 5 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H | T | O | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | 2 | 6 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 2 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} \text{H T O} \\ 5 \ 6 \ 7 \\ - 2 \ 3 \ 3 \\ \hline 3 \ 3 \ 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \begin{array}{r} \text{H T O} \\ 8 \ 7 \ 6 \\ - 5 \ 2 \ 1 \\ \hline 3 \ 5 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 5 \ 6 \\ - 3 \ 2 \ 4 \\ \hline 6 \ 3 \ 2 \end{array} \end{array}$$

$$\begin{array}{r} \text{(m)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 8 \ 7 \\ - 5 \ 3 \ 2 \\ \hline 4 \ 2 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{(n)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 8 \ 8 \\ - 2 \ 7 \ 5 \\ \hline 7 \ 1 \ 3 \end{array} \end{array}$$

$$\begin{array}{r} \text{(o)} \quad \begin{array}{r} \text{H T O} \\ 6 \ 9 \ 9 \\ - 2 \ 8 \ 5 \\ \hline 4 \ 1 \ 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{(p)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 7 \ 6 \\ - 2 \ 4 \ 3 \\ \hline 5 \ 3 \ 3 \end{array} \end{array}$$

2. Find the difference between:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 7 \ 8 \ 6 \\ - 3 \ 1 \ 3 \\ \hline 4 \ 7 \ 3 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 9 \ 7 \ 5 \\ - 2 \ 4 \ 4 \\ \hline 7 \ 3 \ 1 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} 8 \ 5 \ 9 \\ - 2 \ 3 \ 8 \\ \hline 6 \ 2 \ 1 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} 7 \ 9 \ 7 \\ - 6 \ 8 \ 6 \\ \hline 1 \ 1 \ 1 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} 4 \ 6 \ 9 \\ - 1 \ 5 \ 9 \\ \hline 3 \ 1 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} 8 \ 8 \ 7 \\ - 4 \ 2 \ 6 \\ \hline 4 \ 6 \ 1 \end{array} \end{array}$$

3. Find the difference between 9679 and 7506.

$$\begin{array}{r} \text{Th H T O} \\ 9 \ 6 \ 7 \ 9 \\ - 7 \ 5 \ 0 \ 6 \\ \hline 2 \ 1 \ 7 \ 3 \end{array}$$

Hence, difference between 9679 and 7506 is 2173

4. Find:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 9 \ 5 \ 8 \ 7 \\ - 4 \ 4 \ 7 \ 1 \\ \hline 4 \ 1 \ 1 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 4 \ 8 \ 8 \ 4 \\ - 3 \ 4 \ 6 \ 2 \\ \hline 1 \ 4 \ 2 \ 2 \end{array} \end{array}$$

Hence, $9587 - 5471 = 4116$

Hence, $4884 - 3462 = 1422$

(c)

6	9	5	9
-	4	5	3
2 4 2 1			

(d)

9	4	0	5
-	6	2	0
3 2 0 1			

Hence, $6959 - 4538 = 2421$

Hence, $9405 - 6204 = 3201$

(e)

8	8	7	2
-	2	4	7
6 3 9 4			

(f)

5	7	8	0
-	4	2	4
1 5 3 4			

Hence, $8872 - 2478 = 6394$

Hence, $5780 - 4246 = 1534$

5. Fill in the boxes:

(a)

3	5	7
-	1	2
2 3 5		

(b)

9	6	7
-	5	3
4 3 2		

(c)

6	7	8
-	2	3
4 4 4		

(d)

8	7	8
-	5	6
3 1 2		

(e)

7	7	4
-	3	6
4 1 1		

(f)

7	4	9
-	3	3
4 1 3		

(g)

8	7	7
-	5	4
3 3 5		

(h)

8	5	5
-	2	3
6 2 4		

Exercise 4.2

1. Subtract:

(a)

H	T	O
8	7	6
-	5	6
3 0 8		

(b)

H	T	O
9	5	2
-	3	9
5 5 8		

(c)

H	T	O
6	9	1
-	4	8
2 0 2		

(d)

H	T	O
9	0	1
-	5	2
3 7 5		

(e)

H	T	O
9	6	6
-	7	8
1 7 8		

(f)

H	T	O
7	5	3
-	4	7
2 7 6		

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} \text{H T O} \\ 6 \ 5 \ 3 \\ - 1 \ 5 \ 5 \\ \hline 4 \ 9 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} \text{H T O} \\ 6 \ 2 \ 0 \\ - 2 \ 4 \ 5 \\ \hline 3 \ 7 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 2 \ 2 \\ - 3 \ 6 \ 4 \\ \hline 5 \ 5 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} \text{H T O} \\ 5 \ 8 \ 3 \\ - 2 \ 3 \ 8 \\ \hline 3 \ 4 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \begin{array}{r} \text{H T O} \\ 8 \ 2 \ 3 \\ - 2 \ 5 \ 6 \\ \hline 5 \ 6 \ 7 \end{array} \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 1 \ 2 \\ - 2 \ 6 \ 8 \\ \hline 4 \ 4 \ 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{(m)} \quad \begin{array}{r} \text{H T O} \\ 5 \ 2 \ 4 \\ - 2 \ 1 \ 6 \\ \hline 3 \ 0 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(n)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 7 \ 2 \\ - 2 \ 5 \ 9 \\ \hline 5 \ 1 \ 3 \end{array} \end{array}$$

$$\begin{array}{r} \text{(o)} \quad \begin{array}{r} \text{H T O} \\ 6 \ 2 \ 1 \\ - 2 \ 6 \ 4 \\ \hline 3 \ 5 \ 7 \end{array} \end{array}$$

$$\begin{array}{r} \text{(p)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 3 \ 3 \\ - 2 \ 5 \ 6 \\ \hline 4 \ 7 \ 7 \end{array} \end{array}$$

2. Subtract :

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{H T O} \\ 6 \ 2 \ 7 \\ - 4 \ 6 \ 2 \\ \hline 1 \ 6 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 6 \ 6 \\ - 7 \ 8 \ 8 \\ \hline 1 \ 7 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 5 \ 3 \\ - 5 \ 6 \ 7 \\ \hline 1 \ 8 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 1 \ 0 \\ - 4 \ 2 \ 8 \\ \hline 4 \ 8 \ 2 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} \text{H T O} \\ 8 \ 0 \ 0 \\ - 2 \ 0 \ 4 \\ \hline 5 \ 9 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} \text{H T O} \\ 6 \ 0 \ 0 \\ - 2 \ 5 \ 6 \\ \hline 3 \ 4 \ 4 \end{array} \end{array}$$

3. Solve:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} \text{H T O} \\ 3 \ 4 \ 5 \\ - 2 \ 7 \ 8 \\ \hline 6 \ 7 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} \text{H T O} \\ 4 \ 2 \ 5 \\ - 3 \ 4 \ 6 \\ \hline 7 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 2 \ 6 \\ - 5 \ 7 \ 7 \\ \hline 1 \ 4 \ 9 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} \text{H T O} \\ 4 \ 7 \ 5 \\ - 3 \ 9 \ 8 \\ \hline 7 \ 7 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} \text{H T O} \\ 7 \ 8 \ 2 \\ - 6 \ 9 \ 6 \\ \hline 8 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} \text{H T O} \\ 9 \ 4 \ 7 \\ - 8 \ 6 \ 9 \\ \hline 7 \ 8 \end{array} \end{array}$$

4. Fill in the boxes:

- (a)
$$\begin{array}{r} 891 \\ - 358 \\ \hline \end{array}$$
- (b)
$$\begin{array}{r} 583 \\ - 267 \\ \hline \end{array}$$
- (c)
$$\begin{array}{r} 832 \\ - 675 \\ \hline \end{array}$$
- (d)
$$\begin{array}{r} 703 \\ - 236 \\ \hline \end{array}$$
- (e)
$$\begin{array}{r} 460 \\ - 244 \\ \hline \end{array}$$
- (f)
$$\begin{array}{r} 723 \\ - 147 \\ \hline \end{array}$$
- (g)
$$\begin{array}{r} 932 \\ - 675 \\ \hline \end{array}$$
- (h)
$$\begin{array}{r} 925 \\ - 658 \\ \hline \end{array}$$
- (i)
$$\begin{array}{r} 752 \\ - 269 \\ \hline \end{array}$$

Exercise 4.3

1. Subtract :

- (a)
$$\begin{array}{r} \text{Th H T O} \\ 7835 \\ - 4691 \\ \hline \end{array}$$
- (b)
$$\begin{array}{r} \text{Th H T O} \\ 4926 \\ - 1715 \\ \hline \end{array}$$
- (c)
$$\begin{array}{r} \text{Th H T O} \\ 6345 \\ - 4234 \\ \hline \end{array}$$
- (d)
$$\begin{array}{r} \text{Th H T O} \\ 8767 \\ - 5324 \\ \hline \end{array}$$
- (e)
$$\begin{array}{r} \text{Th H T O} \\ 9567 \\ - 6356 \\ \hline \end{array}$$
- (f)
$$\begin{array}{r} \text{Th H T O} \\ 6837 \\ - 2614 \\ \hline \end{array}$$
- (g)
$$\begin{array}{r} \text{Th H T O} \\ 9284 \\ - 2012 \\ \hline \end{array}$$
- (h)
$$\begin{array}{r} \text{Th H T O} \\ 5634 \\ - 2323 \\ \hline \end{array}$$
- (i)
$$\begin{array}{r} \text{Th H T O} \\ 8977 \\ - 2355 \\ \hline \end{array}$$
- (j)
$$\begin{array}{r} \text{Th H T O} \\ 2649 \\ - 1402 \\ \hline \end{array}$$
- (k)
$$\begin{array}{r} \text{Th H T O} \\ 4852 \\ - 2431 \\ \hline \end{array}$$
- (l)
$$\begin{array}{r} \text{Th H T O} \\ 6578 \\ - 3517 \\ \hline \end{array}$$
- (m)
$$\begin{array}{r} \text{Th H T O} \\ 7961 \\ - 5222 \\ \hline \end{array}$$
- (n)
$$\begin{array}{r} \text{Th H T O} \\ 2752 \\ - 1240 \\ \hline \end{array}$$
- (o)
$$\begin{array}{r} \text{Th H T O} \\ 6538 \\ - 4124 \\ \hline \end{array}$$

(p)

Th	H	T	O
5	6	6	3
-	3	3	3
2 3 3 0			

(q)

Th	H	T	O
9	4	6	9
-	5	1	4
4 3 2 3			

(r)

Th	H	T	O
8	6	7	2
-	2	5	6
6 1 1 2			

(s)

Th	H	T	O
8	9	1	4
-	3	3	0
5 6 1 2			

2. Arrange in columns and find the difference:

(a)

Th	H	T	O
7	6	9	4
-	5	3	7
2 3 2 2			

(b)

Th	H	T	O
5	3	5	7
-	2	1	4
3 2 1 1			

(c)

Th	H	T	O
7	4	5	6
-	6	2	4
1 2 1 4			

(d)

Th	H	T	O
9	4	5	4
-	6	2	5
3 2 0 3			

(e)

Th	H	T	O
9	7	8	6
-	6	5	7
3 2 1 4			

(f)

Th	H	T	O
9	7	3	1
-	6	5	1
3 2 2 1			

(g)

Th	H	T	O
9	8	5	7
-	2	3	5
7 5 0 3			

(h)

Th	H	T	O
5	9	7	7
-	2	5	4
3 4 3 1			

(i)

Th	H	T	O
5	8	6	7
-	2	5	4
3 3 2 0			

(j)

Th	H	T	O
9	4	8	4
-	6	3	5
3 1 3 3			

(k)

Th	H	T	O
9	2	8	6
-	4	0	7
5 2 1 4			

(l)

Th	H	T	O
8	5	3	1
-	2	5	1
6 0 2 1			

(m)

Th	H	T	O
7	8	4	5
-	5	2	4
2 6 0 4			

(n)

Th	H	T	O
8	7	5	6
-	3	5	2
5 2 3 2			

(o)

Th	H	T	O
7	7	6	4
-	5	2	6
2 5 0 1			

3. Fill in the blanks:

(a)	$\begin{array}{r} 7\ 3\ 2\ 4 \\ - 2\ 1\ 1\ 1 \\ \hline 5\ 2\ 1\ 3 \end{array}$	(b)	$\begin{array}{r} 9\ 7\ 9\ 8 \\ - 6\ 4\ 6\ 5 \\ \hline 3\ 3\ 3\ 3 \end{array}$	(c)	$\begin{array}{r} 7\ 9\ 3\ 9 \\ - 2\ 6\ 2\ 7 \\ \hline 5\ 3\ 1\ 2 \end{array}$
(d)	$\begin{array}{r} 7\ 6\ 6\ 4 \\ - 2\ 3\ 5\ 3 \\ \hline 5\ 3\ 1\ 1 \end{array}$	(e)	$\begin{array}{r} 8\ 8\ 6\ 8 \\ - 3\ 5\ 3\ 6 \\ \hline 5\ 3\ 3\ 2 \end{array}$	(f)	$\begin{array}{r} 9\ 5\ 3\ 6 \\ - 6\ 3\ 3\ 2 \\ \hline 3\ 2\ 0\ 4 \end{array}$

Exercise 4.4

- Total cost of second hand scooty = ₹7685
 Anita sold the scooty after one year = ₹6470
 Anita lose the money = ₹7685 – ₹6470
 = ₹1215
- The greatest 4 digit number = 9999
 The lowest 4 digit number = 1000
 The difference between 4 digit number = 9999 – 1000
 = 8999
- Total number of books sold by seller = 987
 Number of books sold by seller in next day = 367
 Number of books left = 987 – 367
 = 620 books
- One thousand exceed of 674 = 1000 – 674
 = 326
- Total number of persons = 9764
 Number of adults = 6720
 Number of childrens = 9764 – 6720
 = 3044
- Number of students in school = 7536
 Total number of students with new admission = 7536 + 465
 = 8001
 Number of old students = 763
 Number of students in school at present = 8001 – 763
 = 7238

7. The sum of two numbers = 9246
 One number = 6235
 $\therefore$ Other number = $9246 - 6235$
 = 3011
8. Number of bottles of milk van carries = 7647
 Number of bottles of milk supplied = 6235
 The number of bottles left after supplied = $7647 - 6235$
 = 1412
 The van Pick up the bottles from depot = 235
 Total number of bottles in Van now = $1412 + 235$
 = 1647
9. Priya earned in February month = ₹8750
 Priya earned in March month = ₹8750 – ₹385
 = ₹8365
10. Total number of books in library = 9765
 Number of books written in Hindi = 7432
 The number of books written in other languages = $9765 - 7432$
 = 2333

Chapter 5 : Multiplication

Exercise 5.1

1. Multiply:

(a)
$$\begin{array}{r} 143 \\ \times 2 \\ \hline 286 \end{array}$$

(d)
$$\begin{array}{r} 555 \\ \times 1 \\ \hline 555 \end{array}$$

(g)
$$\begin{array}{r} 134 \\ \times 2 \\ \hline 268 \end{array}$$

(j)
$$\begin{array}{r} 410 \\ \times 2 \\ \hline 820 \end{array}$$

(b)
$$\begin{array}{r} 231 \\ \times 3 \\ \hline 693 \end{array}$$

(e)
$$\begin{array}{r} 233 \\ \times 3 \\ \hline 699 \end{array}$$

(h)
$$\begin{array}{r} 333 \\ \times 3 \\ \hline 999 \end{array}$$

(k)
$$\begin{array}{r} 233 \\ \times 3 \\ \hline 699 \end{array}$$

(c)
$$\begin{array}{r} 111 \\ \times 6 \\ \hline 666 \end{array}$$

(f)
$$\begin{array}{r} 432 \\ \times 2 \\ \hline 864 \end{array}$$

(i)
$$\begin{array}{r} 444 \\ \times 2 \\ \hline 888 \end{array}$$

(l)
$$\begin{array}{r} 444 \\ \times 2 \\ \hline 888 \end{array}$$

$$\begin{array}{r} \text{(m)} \quad 2 \ 2 \ 2 \\ \times 4 \\ \hline 8 \ 8 \ 8 \end{array}$$

$$\begin{array}{r} \text{(n)} \quad 6 \ 8 \ 9 \\ \times 1 \\ \hline 6 \ 8 \ 9 \end{array}$$

$$\begin{array}{r} \text{(o)} \quad 2 \ 0 \ 2 \\ \times 3 \\ \hline 6 \ 0 \ 6 \end{array}$$

$$\begin{array}{r} \text{(p)} \quad 1 \ 1 \ 1 \\ \times 9 \\ \hline 9 \ 9 \ 9 \end{array}$$

$$\begin{array}{r} \text{(q)} \quad 2 \ 3 \ 2 \\ \times 3 \\ \hline 6 \ 9 \ 6 \end{array}$$

$$\begin{array}{r} \text{(r)} \quad 2 \ 3 \ 4 \\ \times 2 \\ \hline 9 \ 6 \ 8 \end{array}$$

$$\begin{array}{r} \text{(s)} \quad 3 \ 4 \ 2 \\ \times 2 \\ \hline 6 \ 8 \ 4 \end{array}$$

$$\begin{array}{r} 2. \quad 2 \ 2 \ 3 \\ \times 3 \\ \hline 6 \ 6 \ 9 \end{array}$$

$$\begin{array}{r} 3. \quad 4 \ 0 \ 4 \\ \times 2 \\ \hline 8 \ 0 \ 8 \end{array}$$

$$\begin{array}{r} 4. \quad 1 \ 0 \ 1 \\ \times 7 \\ \hline 7 \ 0 \ 7 \end{array}$$

$$\begin{array}{r} 5. \quad 1 \ 0 \ 1 \\ \times 8 \\ \hline 8 \ 0 \ 8 \end{array}$$

6. Find the product

$$\begin{array}{r} \text{(a)} \quad 3 \ 3 \ 3 \\ \times 2 \\ \hline 6 \ 6 \ 6 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 3 \ 3 \ 4 \\ \times 2 \\ \hline 6 \ 6 \ 8 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 3 \ 3 \ 2 \\ \times 2 \\ \hline 6 \ 6 \ 4 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 4 \ 0 \ 2 \\ \times 2 \\ \hline 8 \ 0 \ 4 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 7 \ 6 \ 7 \\ \times 1 \\ \hline 7 \ 6 \ 7 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 9 \ 9 \ 9 \\ \times 1 \\ \hline 9 \ 9 \ 9 \end{array}$$

Exercise 5.2

1. Multiply:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{c} 2 \\ 2 \ 7 \\ \times 3 \\ \hline 8 \ 1 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{c} 2 \\ 2 \ 8 \\ \times 3 \\ \hline 8 \ 4 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{c} 2 \\ 2 \ 7 \\ \times 4 \\ \hline 1 \ 0 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{c} 2 \\ 2 \ 9 \\ \times 2 \\ \hline 5 \ 8 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{c} 1 \\ 3 \ 5 \\ \times 2 \\ \hline 7 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{c} 4 \\ 1 \ 8 \\ \times 5 \\ \hline 9 \ 0 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{c} 4 \\ 1 \ 9 \\ \times 5 \\ \hline 9 \ 5 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{c} 1 \\ 1 \ 2 \\ \times 7 \\ \hline 8 \ 4 \end{array} \end{array}$$

2. Find the product:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{c} 3 \ 2 \\ \times 3 \\ \hline 9 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{c} 6 \ 1 \\ \times 6 \\ \hline 3 \ 6 \ 6 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{c} 7 \ 4 \\ \times 3 \\ \hline 2 \ 2 \ 2 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} 54 \\ \times 5 \\ \hline 270 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} 91 \\ \times 8 \\ \hline 728 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} 72 \\ \times 4 \\ \hline 288 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} 61 \\ \times 5 \\ \hline 305 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} 91 \\ \times 9 \\ \hline 619 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} 35 \\ \times 5 \\ \hline 175 \end{array} \end{array}$$

3. Multiply:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 1 \\ 52 \\ \times 7 \\ \hline 364 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 1 \\ 96 \\ \times 3 \\ \hline 288 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} 2 \\ 84 \\ \times 5 \\ \hline 420 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} 2 \\ 63 \\ \times 8 \\ \hline 504 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} 0 \\ 80 \\ \times 7 \\ \hline 560 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} 3 \\ 79 \\ \times 4 \\ \hline 316 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} 2 \\ 54 \\ \times 7 \\ \hline 378 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} 5 \\ 26 \\ \times 9 \\ \hline 234 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} 2 \\ 65 \\ \times 5 \\ \hline 325 \end{array} \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} 1 \\ 73 \\ \times 6 \\ \hline 438 \end{array} \end{array}$$

Exercise 5.3

1. Multiply

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 2 \quad 2 \\ 535 \\ \times 7 \\ \hline 3745 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 3 \quad 3 \\ 356 \\ \times 6 \\ \hline 2136 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} 5 \quad 1 \\ 193 \\ \times 6 \\ \hline 1158 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} 3 \quad 3 \\ 444 \\ \times 8 \\ \hline 3552 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} 1 \quad 0 \\ 640 \\ \times 3 \\ \hline 1920 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} 4 \quad 4 \\ 355 \\ \times 8 \\ \hline 2840 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} 0 \quad 1 \\ 602 \\ \times 9 \\ \hline 7218 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} 0 \quad 0 \\ 543 \\ \times 2 \\ \hline 1086 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} 2 \quad 1 \\ 763 \\ \times 4 \\ \hline 3052 \end{array} \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} 4 \quad 4 \\ 268 \\ \times 6 \\ \hline 1608 \end{array} \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \begin{array}{r} 3 \quad 3 \\ 145 \\ \times 7 \\ \hline 1015 \end{array} \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \begin{array}{r} 1 \quad 4 \\ 526 \\ \times 7 \\ \hline 3682 \end{array} \end{array}$$

$$\begin{array}{r} 0 \quad 2 \\ 5 \quad 2 \quad 7 \\ \times 3 \\ \hline 1 \quad 5 \quad 8 \quad 1 \end{array}$$

$$\begin{array}{r} 1 \quad 2 \\ 6 \quad 2 \quad 7 \\ \times 5 \\ \hline 3 \quad 1 \quad 3 \quad 5 \end{array}$$

$$\begin{array}{r} 1 \quad 2 \\ 6 \quad 2 \quad 4 \\ \times 7 \\ \hline 4 \quad 3 \quad 6 \quad 8 \end{array}$$

$$\begin{array}{r} 2 \quad 5 \\ 5 \quad 2 \quad 6 \\ \times 9 \\ \hline 4 \quad 7 \quad 3 \quad 4 \end{array}$$

2. Find the product:

$$\begin{array}{r} 1 \quad 4 \\ 5 \quad 1 \quad 8 \\ \times 6 \\ \hline 3 \quad 1 \quad 0 \quad 8 \end{array}$$

$$\begin{array}{r} 7 \quad 6 \\ 2 \quad 8 \quad 8 \\ \times 8 \\ \hline 2 \quad 3 \quad 0 \quad 4 \end{array}$$

$$\begin{array}{r} 5 \\ 9 \quad 8 \quad 0 \\ \times 3 \\ \hline 2 \quad 9 \quad 4 \quad 0 \end{array}$$

$$\begin{array}{r} 1 \quad 3 \\ 6 \quad 2 \quad 5 \\ \times 7 \\ \hline 4 \quad 3 \quad 7 \quad 5 \end{array}$$

$$\begin{array}{r} 4 \quad 1 \\ 6 \quad 7 \quad 2 \\ \times 6 \\ \hline 4 \quad 0 \quad 3 \quad 2 \end{array}$$

$$\begin{array}{r} 4 \quad 3 \quad 3 \\ \times 2 \\ \hline 8 \quad 6 \quad 6 \end{array}$$

$$\begin{array}{r} 1 \quad 2 \\ 4 \quad 3 \quad 6 \\ \times 4 \\ \hline 1 \quad 7 \quad 4 \quad 4 \end{array}$$

$$\begin{array}{r} 1 \quad 1 \\ 6 \quad 3 \quad 4 \\ \times 4 \\ \hline 2 \quad 5 \quad 3 \quad 6 \end{array}$$

$$\begin{array}{r} 1 \quad 1 \\ 9 \quad 6 \quad 9 \\ \times 2 \\ \hline 1 \quad 9 \quad 3 \quad 8 \end{array}$$

$$\begin{array}{r} 1 \\ 5 \quad 6 \quad 2 \\ \times 2 \\ \hline 1 \quad 1 \quad 2 \quad 4 \end{array}$$

$$\begin{array}{r} 3 \quad 1 \\ 6 \quad 5 \quad 3 \\ \times 6 \\ \hline 3 \quad 9 \quad 1 \quad 8 \end{array}$$

$$\begin{array}{r} 2 \\ 7 \quad 6 \quad 2 \\ \times 4 \\ \hline 3 \quad 0 \quad 4 \quad 8 \end{array}$$

3. Multiply :

$$\begin{array}{r} 1 \quad 2 \\ 3 \quad 2 \quad 7 \\ \times 4 \\ \hline 1 \quad 3 \quad 0 \quad 8 \end{array}$$

$$\begin{array}{r} 1 \quad 3 \\ 8 \quad 2 \quad 5 \\ \times 7 \\ \hline 5 \quad 7 \quad 7 \quad 5 \end{array}$$

$$\begin{array}{r} 1 \quad 1 \\ 5 \quad 2 \quad 2 \\ \times 8 \\ \hline 4 \quad 1 \quad 7 \quad 6 \end{array}$$

$$\begin{array}{r} 5 \quad 4 \\ 6 \quad 6 \quad 5 \\ \times 9 \\ \hline 5 \quad 9 \quad 8 \quad 5 \end{array}$$

$$\begin{array}{r} 4 \quad 1 \\ 3 \quad 8 \quad 2 \\ \times 6 \\ \hline 2 \quad 2 \quad 9 \quad 2 \end{array}$$

$$\begin{array}{r} 1 \\ 9 \quad 4 \quad 3 \\ \times 3 \\ \hline 2 \quad 8 \quad 2 \quad 9 \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} \overset{1}{7} \overset{1}{9} 8 \\ \times 2 \\ \hline 1596 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} \overset{1}{8} 4 3 \\ \times 3 \\ \hline 2529 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} 949 \\ \times 1 \\ \hline 949 \end{array} \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} \overset{2}{6} \overset{1}{5} 4 \\ \times 4 \\ \hline 2616 \end{array} \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \begin{array}{r} \overset{3}{6} \overset{1}{6} 3 \\ \times 5 \\ \hline 3315 \end{array} \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \begin{array}{r} \overset{1}{8} 5 3 \\ \times 3 \\ \hline 2559 \end{array} \end{array}$$

Exercise 5.4

1. Find the following products:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 2311 \\ \times 2 \\ \hline 4622 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 1310 \\ \times 3 \\ \hline 3930 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} 1221 \\ \times 4 \\ \hline 4884 \end{array} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad \begin{array}{r} 3220 \\ \times 3 \\ \hline 9660 \end{array} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad \begin{array}{r} 4043 \\ \times 2 \\ \hline 8086 \end{array} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad \begin{array}{r} 2332 \\ \times 3 \\ \hline 6996 \end{array} \end{array}$$

$$\begin{array}{r} \text{(g)} \quad \begin{array}{r} 2233 \\ \times 2 \\ \hline 4466 \end{array} \end{array}$$

$$\begin{array}{r} \text{(h)} \quad \begin{array}{r} 1234 \\ \times 2 \\ \hline 3468 \end{array} \end{array}$$

$$\begin{array}{r} \text{(i)} \quad \begin{array}{r} 2222 \\ \times 4 \\ \hline 8888 \end{array} \end{array}$$

$$\begin{array}{r} \text{(j)} \quad \begin{array}{r} 1111 \\ \times 3 \\ \hline 3333 \end{array} \end{array}$$

$$\begin{array}{r} \text{(k)} \quad \begin{array}{r} 2211 \\ \times 4 \\ \hline 8844 \end{array} \end{array}$$

$$\begin{array}{r} \text{(l)} \quad \begin{array}{r} 1221 \\ \times 3 \\ \hline 3663 \end{array} \end{array}$$

$$\begin{array}{r} \text{(m)} \quad \begin{array}{r} 2424 \\ \times 2 \\ \hline 4848 \end{array} \end{array}$$

$$\begin{array}{r} \text{(n)} \quad \begin{array}{r} 1111 \\ \times 5 \\ \hline 5555 \end{array} \end{array}$$

$$\begin{array}{r} \text{(o)} \quad \begin{array}{r} 2234 \\ \times 2 \\ \hline 4468 \end{array} \end{array}$$

$$\begin{array}{r} \text{(p)} \quad \begin{array}{r} 1102 \\ \times 3 \\ \hline 3306 \end{array} \end{array}$$

2. Multiply:

$$\begin{array}{r} \text{(a)} \quad \begin{array}{r} 9009 \\ \times 1 \\ \hline 9009 \end{array} \end{array}$$

$$\begin{array}{r} \text{(b)} \quad \begin{array}{r} 2002 \\ \times 4 \\ \hline 8008 \end{array} \end{array}$$

$$\begin{array}{r} \text{(c)} \quad \begin{array}{r} 2434 \\ \times 2 \\ \hline 4868 \end{array} \end{array}$$

$$\begin{array}{r} 4\ 4\ 4\ 4 \\ \times 2 \\ \hline 8\ 8\ 8\ 8 \end{array}$$

(d)

$$\begin{array}{r} 4\ 4\ 1\ 0 \\ \times 2 \\ \hline 8\ 8\ 2\ 0 \end{array}$$

(e)

$$\begin{array}{r} 3\ 3\ 0\ 3 \\ \times 3 \\ \hline 9\ 9\ 0\ 9 \end{array}$$

(f)

$$\begin{array}{r} 2\ 2\ 2\ 2 \\ \times 4 \\ \hline 8\ 8\ 8\ 8 \end{array}$$

(g)

$$\begin{array}{r} 2\ 4\ 4\ 2 \\ \times 2 \\ \hline 4\ 8\ 8\ 4 \end{array}$$

(h)

$$\begin{array}{r} 1\ 1\ 1\ 0 \\ \times 6 \\ \hline 6\ 6\ 6\ 0 \end{array}$$

(i)

$$\begin{array}{r} 2\ 3\ 0\ 4 \\ \times 2 \\ \hline 4\ 6\ 0\ 8 \end{array}$$

(j)

Exercise 5.5

1. Find the following products:

$$\begin{array}{r} 3\ 4 \\ \times 1\ 2 \\ \hline 4\ 0\ 8 \end{array}$$

(a)

$$\begin{array}{r} 2\ 4 \\ \times 2\ 2 \\ \hline 5\ 2\ 8 \end{array}$$

(b)

$$\begin{array}{r} 2\ 2 \\ \times 2\ 1 \\ \hline 4\ 6\ 2 \end{array}$$

(c)

$$\begin{array}{r} 4\ 4 \\ \times 2\ 2 \\ \hline 9\ 6\ 8 \end{array}$$

(d)

$$\begin{array}{r} 5\ 4 \\ \times 2\ 2 \\ \hline 1\ 1\ 8\ 8 \end{array}$$

(e)

$$\begin{array}{r} 8\ 3 \\ \times 3\ 3 \\ \hline 2\ 7\ 3\ 9 \end{array}$$

(f)

$$\begin{array}{r} 6\ 3 \\ \times 3\ 1 \\ \hline 1\ 9\ 5\ 3 \end{array}$$

(g)

$$\begin{array}{r} 7\ 1 \\ \times 4\ 3 \\ \hline 3\ 0\ 5\ 3 \end{array}$$

(h)

$$\begin{array}{r} 4\ 9 \\ \times 1\ 4 \\ \hline 6\ 8\ 6 \end{array}$$

(i)

$$\begin{array}{r} 6\ 5 \\ \times 2\ 7 \\ \hline 1\ 7\ 5\ 5 \end{array}$$

(j)

$$\begin{array}{r} 8\ 0 \\ \times 5\ 0 \\ \hline 4\ 0\ 0\ 0 \end{array}$$

(k)

$$\begin{array}{r} 7\ 6 \\ \times 4\ 8 \\ \hline 3\ 6\ 4\ 8 \end{array}$$

(l)

$$\begin{array}{r} 5\ 7 \\ \times 4\ 4 \\ \hline 2\ 5\ 0\ 8 \end{array}$$

(m)

$$\begin{array}{r} 5\ 8 \\ \times 4\ 8 \\ \hline 2\ 7\ 8\ 4 \end{array}$$

(n)

$$\begin{array}{r} 9\ 0 \\ \times 3\ 5 \\ \hline 3\ 1\ 5\ 0 \end{array}$$

(o)

$$\begin{array}{r} 4\ 8 \\ \times 3\ 5 \\ \hline 3\ 1\ 5\ 0 \end{array}$$

(p)

2. Find the product of each of the following:

(a)

$$\begin{array}{r} 17 \\ \times 35 \\ \hline 85 \\ 510 \\ \hline 595 \end{array}$$

(b)

$$\begin{array}{r} 21 \\ \times 57 \\ \hline 147 \\ 1050 \\ \hline 1197 \end{array}$$

(c)

$$\begin{array}{r} 15 \\ \times 48 \\ \hline 120 \\ 600 \\ \hline 720 \end{array}$$

(d)

$$\begin{array}{r} 21 \\ \times 38 \\ \hline 168 \\ 630 \\ \hline 798 \end{array}$$

(e)

$$\begin{array}{r} 16 \\ \times 29 \\ \hline 144 \\ 320 \\ \hline 464 \end{array}$$

(f)

$$\begin{array}{r} 32 \\ \times 45 \\ \hline 160 \\ 1280 \\ \hline 1440 \end{array}$$

(g)

$$\begin{array}{r} 28 \\ \times 60 \\ \hline 00 \\ 1680 \\ \hline 1680 \end{array}$$

(h)

$$\begin{array}{r} 34 \\ \times 64 \\ \hline 136 \\ 2040 \\ \hline 2176 \end{array}$$

3. Multiply:

(a)

$$\begin{array}{r} 24 \\ \times 25 \\ \hline 120 \\ 480 \\ \hline 600 \end{array}$$

(b)

$$\begin{array}{r} 23 \\ \times 23 \\ \hline 69 \\ 460 \\ \hline 529 \end{array}$$

(c)

$$\begin{array}{r} 17 \\ \times 78 \\ \hline 136 \\ 1190 \\ \hline 1326 \end{array}$$

(d)

$$\begin{array}{r} 34 \\ \times 65 \\ \hline 170 \\ 2040 \\ \hline 2210 \end{array}$$

(e)

$$\begin{array}{r} 34 \\ \times 97 \\ \hline 238 \\ 3060 \\ \hline 3298 \end{array}$$

(f)

$$\begin{array}{r} 37 \\ \times 57 \\ \hline 259 \\ 1850 \\ \hline 2109 \end{array}$$

(g)

$$\begin{array}{r} 35 \\ \times 49 \\ \hline 315 \\ 1400 \\ \hline 1715 \end{array}$$

(h)

$$\begin{array}{r} 74 \\ \times 87 \\ \hline 518 \\ 5920 \\ \hline 6438 \end{array}$$

Exercise 5.6

1. Find the product of:

- (a)

4 0 7

× 2 1

4 0 7

8 1 4 0

8 5 4 7
- (b)

3 8 6

× 2 2

7 7 2

7 7 2 0

8 4 9 2
- (c)

2 2 3

× 4 2

4 4 6

8 9 2 0

9 3 6 6
- (d)

3 4 0

× 1 7

2 3 8 0

3 4 0 0

5 7 8 0
- (e)

4 7 0

× 1 2

9 4 0

4 7 0 0

5 6 4 0
- (f)

6 3 8

× 2 3

1 9 1 4

1 2 7 6 0

1 4 6 7 4
- (g)

3 2 2

× 2 4

1 2 8 8

6 4 4 0

7 7 2 8
- (h)

4 3 0

× 1 2

8 6 0

4 3 0 0

5 1 6 0

2. Multiply:

- (a)

2 3 4

× 1 5

3 5 1 0
- (b)

3 2 5

× 2 9

9 4 2 5
- (c)

2 7 8

× 3 1

8 6 8 1
- (d)

4 5 5

× 1 8

8 1 9 0
- (e)

6 1 8

× 1 2

7 4 1 6
- (f)

5 5 6

× 1 5

8 3 4 0
- (g)

1 1 8

× 6 7

7 9 0 6
- (h)

2 8 5

× 3 2

9 1 2 0
- (i)

5 5 6

× 1 5

8 3 4 0
- (j)

7 0 5

× 1 3

9 1 6 5
- (k)

6 2 8

× 1 5

9 4 2 0
- (l)

2 7 2

× 3 6

9 7 9 2
- (m)

8 2 0

× 1 1

9 0 2 0
- (n)

4 1 8

× 2 3

9 6 1 4
- (o)

3 3 9

× 2 8

9 4 9 2

$$\begin{array}{r} 567 \\ \times 26 \\ \hline 14742 \end{array}$$

$$\begin{array}{r} 455 \\ \times 34 \\ \hline 15470 \end{array}$$

$$\begin{array}{r} 155 \\ \times 22 \\ \hline 3410 \end{array}$$

3. Fill in the boxes:

$$\begin{array}{r} 3412 \\ \times 2 \\ \hline 6824 \end{array}$$

$$\begin{array}{r} 4233 \\ \times 3 \\ \hline 12699 \end{array}$$

$$\begin{array}{r} 2435 \\ \times 5 \\ \hline 12175 \end{array}$$

$$\begin{array}{r} 56 \\ \times 55 \\ \hline 280 \\ + 2800 \\ \hline 3080 \end{array}$$

$$\begin{array}{r} 65 \\ \times 24 \\ \hline 260 \\ + 1300 \\ \hline 1560 \end{array}$$

$$\begin{array}{r} 383 \\ \times 23 \\ \hline 1149 \\ + 7660 \\ \hline 8809 \end{array}$$

Exercise 5.7

1. Multiply each of the following by 10:

- (a) $32 \times 10 = 320$ (b) $56 \times 10 = 560$ (c) $41 \times 10 = 410$
 (d) $84 \times 10 = 840$ (e) $99 \times 10 = 990$ (f) $21 \times 10 = 210$
 (g) $52 \times 10 = 520$ (h) $40 \times 10 = 400$ (i) $25 \times 10 = 250$
 (j) $15 \times 10 = 150$ (k) $56 \times 10 = 560$ (l) $46 \times 10 = 460$

2. Find the product:

- (a) $17 \times 50 = 17 \times 5 \times 10 = 85 \times 10 = 850$
 (b) $11 \times 30 = 11 \times 3 \times 10 = 33 \times 10 = 330$
 (c) $9 \times 20 = 9 \times 2 \times 10 = 18 \times 10 = 180$
 (d) $19 \times 40 = 19 \times 4 \times 10 = 76 \times 10 = 760$
 (e) $28 \times 60 = 28 \times 6 \times 10 = 168 \times 10 = 1680$
 (f) $37 \times 70 = 37 \times 7 \times 10 = 259 \times 10 = 2590$
 (g) $39 \times 80 = 39 \times 8 \times 10 = 312 \times 10 = 3120$
 (h) $55 \times 90 = 55 \times 9 \times 10 = 495 \times 10 = 4950$
 (i) $25 \times 40 = 25 \times 4 \times 10 = 100 \times 10 = 1000$

3. Fill in the box:

- (a) $11 \times 5 = 55$ (b) $42 \times 6 = 252$ (c) $46 \times 7 = 322$
 (d) $37 \times 7 = 178$ (e) $99 \times 3 = 297$ (f) $28 \times 4 = 112$
 (g) $87 \times 3 = 261$ (h) $33 \times 5 = 165$ (i) $24 \times 6 = 144$

Exercise 5.8

1. Find the product:

- (a) $5 \times 400 = 5 \times 4 \text{ hundreds}$

- $= 20 \text{ hundreds} = 2000$
 (b) $4 \times 200 = 4 \times 2 \text{ hundreds}$
 $= 8 \text{ hundreds} = 800$
 (c) $6 \times 300 = 6 \times 3 \text{ hundreds}$
 $= 18 \text{ hundreds} = 1800$
 (d) $2 \times 300 = 2 \times 3 \text{ hundreds}$
 $= 6 \text{ hundreds} = 600$
 (e) $8 \times 100 = 8 \times 1 \text{ hundreds}$
 $= 8 \text{ hundreds} = 800$
 (f) $4 \times 500 = 4 \times 5 \text{ hundreds}$
 $= 20 \text{ hundreds} = 2000$
 (g) $5 \times 700 = 5 \times 7 \text{ hundreds}$
 $= 35 \text{ hundreds} = 3500$
 (h) $8 \times 800 = 8 \times 8 \text{ hundreds}$
 $= 64 \text{ hundreds} = 6400$
 (i) $9 \times 900 = 9 \times 9 \text{ hundreds}$
 $= 81 \text{ hundreds} = 8100$

2. Multiply:

- (a) $16 \times 200 = 16 \times 2 \text{ hundreds}$
 $= 32 \text{ hundreds} = 3200$
 (b) $12 \times 600 = 12 \times 6 \text{ hundreds}$
 $= 72 \text{ hundreds} = 7200$
 (c) $26 \times 300 = 26 \times 3 \text{ hundreds}$
 $= 78 \text{ hundreds} = 7800$
 (d) $13 \times 700 = 13 \times 7 \text{ hundreds}$
 $= 91 \text{ hundreds} = 9100$
 (e) $19 \times 400 = 19 \times 4 \text{ hundreds}$
 $= 76 \text{ hundreds} = 7600$
 (f) $13 \times 500 = 13 \times 5 \text{ hundreds}$
 $= 65 \text{ hundreds} = 6500$
 (g) $12 \times 800 = 12 \times 8 \text{ hundreds}$
 $= 96 \text{ hundreds} = 9600$
 (h) $11 \times 900 = 11 \times 9 \text{ hundreds}$
 $= 99 \text{ hundreds} = 9900$
 (i) $25 \times 300 = 25 \times 3 \text{ hundreds}$
 $= 75 \text{ hundreds} = 7500$

Exercise 5.9

1. The number of mangoes in one box = 95

- The number of mangoes in 7 boxes $= 95 \times 7 = 665$
Hence, 665 mangoes are in 7 boxes.
2. A bus travels a distance in one hour $= 85 \text{ km}$
A bus travels a distance in 18 hours $= 85 \times 18 \text{ km}$
 $= 1530 \text{ km}$
Hence, a bus 1530 km travels in 18 hours.
3. A plane can carry passengers in one trip $= 212$
A plane can carry passengers in 15 trips $= 212 \times 15$
 $= 3180$
Hence, a plane can carry 3180 passengers in 15 trips.
4. Rakhi can read the pages in one day $= 115$
Rakhi can read the pages in 19 days $= 115 \times 19$
 $= 2185$
Hence, Rakhi 2185 pages read in 19 days.
5. Number of match-sticks in one box $= 65$
Number of match-stick in 64 boxes $= 65 \times 64$
 $= 4160$
Hence, 4160 match-sticks in 64 boxes.
6. Number of pages in one book $= 96$
Number of pages in 72 books $= 96 \times 72 = 6912$
Hence, 6912 pages are in 72 books.
7. Cost of one sewing machine $= ₹1427$
Cost of 6 sewing machines $= ₹1427 \times 6 = ₹8562$
Hence, the cost of 6 sewing machines is ₹8562.
8. One box contains $= 58$ apples
60 boxes contains $= 58 \times 60$ apples $= 3480$ apples
Hence 60 boxes contains 3480 apples.
9. Number of buttons in one box $= 144$
Number of buttons in 6 boxes $= 144 \times 6 = 864$
Hence, Zia bought 864 buttons.
10. Number of books in one almirah $= 75$
Number of books in 39 almirahs $= 75 \times 39 = 2925$
Hence, 2925 books are in school library.
11. Number of petals in one flower $= 9$
Number of petals in 108 flowers $= 9 \times 108 = 972$
Hence, 972 petals in 108 flowers.
12. Number of sweets in one box $= 160$
Number of sweets in 5 boxes $= 160 \times 5 = 800$

Hence, 800 sweets are in 5 boxes.

13. The cost of one computer = ₹9450

$$\begin{aligned}\text{The cost of 35 computers} &= ₹9450 \times 35 \\ &= ₹330750\end{aligned}$$

Hence, the cost of 35 computers is ₹330750.

14. One worker get the salary in one month = ₹2560

$$\begin{aligned}\text{242 workers will get the salary in one month} &= ₹2560 \times 242 \\ &= ₹619520\end{aligned}$$

Hence, 242 workers gets ₹619520 in one month.

15. The cost of one mobile phone = ₹3240

$$\begin{aligned}\text{The cost of 162 mobile phones} &= ₹3240 \times 160 \\ &= ₹158400\end{aligned}$$

Hence, the cost of 162 mobile phones in ₹158400.

Chapter 6 : Division

Exercise 6.1

1. Divide the following and find the quotient:

(a) $18 \div 18 = 1$ (b) $11 \div 1 = 11$ (c) $24 \div 1 = 24$

(d) $12 \div 12 = 1$ (e) $0 \div 15 = 0$ (f) $75 \div 75 = 1$

(g) $35 \div 1 = 35$ (h) $48 \div 1 = 48$ (i) $59 \div 1 = 59$

(j) $75 \div 1 = 75$ (k) $0 \div 45 = 0$ (l) $0 \div 81 = 0$

Exercise 6.2

1. Find the quotient and remainder. Also verify the answer:

(a)
$$\begin{array}{r} 7 \overline{) 21} \quad 3 \\ -21 \\ \hline 0 \end{array}$$
 (b)
$$\begin{array}{r} 3 \overline{) 15} \quad 5 \\ -15 \\ \hline 0 \end{array}$$
 (c)
$$\begin{array}{r} 6 \overline{) 24} \quad 4 \\ -24 \\ \hline 0 \end{array}$$
 (d)
$$\begin{array}{r} 4 \overline{) 16} \quad 4 \\ -16 \\ \hline 0 \end{array}$$

(e)
$$\begin{array}{r} 3 \overline{) 99} \quad 33 \\ -9 \downarrow \\ 9 \\ -9 \\ \hline 0 \end{array}$$
 (f)
$$\begin{array}{r} 6 \overline{) 42} \quad 7 \\ -42 \\ \hline 0 \end{array}$$
 (g)
$$\begin{array}{r} 5 \overline{) 20} \quad 4 \\ -20 \\ \hline 0 \end{array}$$
 (h)
$$\begin{array}{r} 7 \overline{) 35} \quad 5 \\ -35 \\ \hline 0 \end{array}$$

(i)
$$\begin{array}{r} 7 \overline{) 35} \quad 5 \\ -35 \\ \hline 0 \end{array}$$
 (j)
$$\begin{array}{r} 7 \overline{) 35} \quad 5 \\ -35 \\ \hline 0 \end{array}$$
 (k)
$$\begin{array}{r} 3 \overline{) 99} \quad 33 \\ -9 \downarrow \\ 9 \\ -9 \\ \hline 0 \end{array}$$

$$(l) \begin{array}{r} 3 \overline{) 642} \quad (214 \\ - 6 \\ \hline 4 \\ - 3 \\ \hline 12 \\ - 12 \\ \hline 0 \end{array} \quad (m)$$

$$\begin{array}{r} 9 \overline{) 288} \quad (32 \\ - 27 \\ \hline 18 \\ - 18 \\ \hline 0 \end{array} \quad (n)$$

$$\begin{array}{r} 4 \overline{) 228} \quad (57 \\ - 28 \\ \hline 28 \\ - 28 \\ \hline 0 \end{array}$$

$$(o) \begin{array}{r} 5 \overline{) 575} \quad (115 \\ - 5 \\ \hline 7 \\ - 5 \\ \hline 25 \\ - 25 \\ \hline 0 \end{array} \quad (p)$$

$$\begin{array}{r} 9 \overline{) 837} \quad (93 \\ - 81 \\ \hline 27 \\ - 27 \\ \hline 0 \end{array} \quad (q)$$

$$\begin{array}{r} 7 \overline{) 434} \quad (62 \\ - 42 \\ \hline 14 \\ - 14 \\ \hline 0 \end{array}$$

$$(r) \begin{array}{r} 5 \overline{) 125} \quad (25 \\ - 10 \\ \hline 25 \\ - 25 \\ \hline 0 \end{array} \quad (s)$$

$$\begin{array}{r} 4 \overline{) 132} \quad (33 \\ - 12 \\ \hline 12 \\ - 12 \\ \hline 0 \end{array} \quad (t)$$

$$\begin{array}{r} 5 \overline{) 145} \quad (29 \\ - 10 \\ \hline 45 \\ - 45 \\ \hline 0 \end{array}$$

$$(u) \begin{array}{r} 3 \overline{) 396} \quad (132 \\ - 3 \\ \hline 9 \\ - 9 \\ \hline 6 \\ - 6 \\ \hline 0 \end{array} \quad (v)$$

$$\begin{array}{r} 3 \overline{) 606} \quad (202 \\ - 6 \\ \hline 0 \\ - 0 \\ \hline 6 \\ - 6 \\ \hline 0 \end{array} \quad (w)$$

$$\begin{array}{r} 9 \overline{) 999} \quad (111 \\ - 9 \\ \hline 9 \\ - 9 \\ \hline 9 \\ - 9 \\ \hline 0 \end{array}$$

$$(x) \begin{array}{r} 2 \overline{) 648} \quad (324 \\ - 6 \\ \hline 4 \\ - 4 \\ \hline 8 \\ - 8 \\ \hline 0 \end{array} \quad (y)$$

$$\begin{array}{r} 6 \overline{) 864} \quad (144 \\ - 6 \\ \hline 26 \\ - 24 \\ \hline 24 \\ - 24 \\ \hline 0 \end{array}$$

Exercise 6.3

1. Find the quotient and remainder. Also verify the answer:

$$\begin{array}{r} 3 \overline{)38} (12 \\ \underline{-3} \\ 8 \\ \underline{-6} \\ 2 \end{array}$$

Thus, the quotient = 12 and remainder = 2

Verification : We know that, divisor $\times$ quotient $\times$ remainder =
dividend $= 3 \times 12 + 2 = 36 + 2 = 38 = \text{dividend}$

Hence, answer is correct.

$$\begin{array}{r} 4 \overline{)45} (11 \\ \underline{-4} \\ 5 \\ \underline{-4} \\ 1 \end{array}$$

Thus, the quotient = 11 and remainder = 1

Verification : We know that , divisor $\times$ quotient + remainder =
dividend $= 4 \times 11 + 1 = 44 + 1 = 45 = \text{dividend}$

Hence, the answer is correct.

$$\begin{array}{r} 2 \overline{)86} (43 \\ \underline{-8} \\ 6 \\ \underline{-6} \\ 0 \end{array}$$

Thus, the quotient = 43 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder =
dividend $= 2 \times 43 + 0 = 86 + 0 = 86 = \text{dividend}$

Hence, the answer is correct.

$$\begin{array}{r} 5 \overline{)77} (15 \\ \underline{-5} \\ 27 \\ \underline{-25} \\ 2 \end{array}$$

Thus, the quotient = 15 and remainder = 2

Verification : We know that, $\text{divisor} \times \text{quotient} + \text{remainder} = \text{dividend}$
 $= 5 \times 15 + 2 = 75 + 2 = 77 = \text{dividend}$

Hence, the answer is correct.

$$(e) \quad \begin{array}{r} 6 \overline{) 82} \quad (13 \\ \underline{-6} \\ 22 \\ \underline{-18} \\ 4 \end{array}$$

Thus, the quotient = 13 and remainder = 4

Verification : We know that, $\text{divisor} \times \text{quotient} + \text{remainder} = \text{dividend}$
 $= 6 \times 13 + 4 = 78 + 4 = 82 = \text{dividend}$

Hence, the answer is correct.

$$(f) \quad \begin{array}{r} 5 \overline{) 58} \quad (11 \\ \underline{-5} \\ 8 \\ \underline{-5} \\ 3 \end{array}$$

Thus, the quotient = 11 and remainder = 3

Verification : We know that, $\text{divisor} \times \text{quotient} + \text{remainder} = \text{dividend}$
 $= 5 \times 11 + 3 = 55 + 3 = 58 = \text{dividend}$

Hence, the answer is correct.

$$(g) \quad \begin{array}{r} 6 \overline{) 69} \quad (11 \\ \underline{-6} \\ 9 \\ \underline{-6} \\ 3 \end{array}$$

Thus, the quotient = 11 and remainder = 3

Verification : We know that, $\text{divisor} \times \text{quotient} + \text{remainder} = \text{dividend}$
 $= 6 \times 11 + 3 = 66 + 3 = 69 = \text{dividend}$

Hence, the answer is correct.

$$(h) \quad \begin{array}{r} 6 \overline{) 72} \quad (12 \\ \underline{-6} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

Thus, the quotient = 12 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder =
dividend $= 6 \times 12 + 0 = 72 + 0 = 72 = \text{dividend}$

Hence, the answer is correct.

$$(i) \quad \begin{array}{r} 8 \overline{) 99} \quad (12 \\ \underline{- 8} \downarrow \\ 19 \\ \underline{- 16} \\ 3 \end{array}$$

Thus, the quotient = 12 and remainder = 3

Verification : We know that, divisor $\times$ quotient + remainder =
dividend $= 8 \times 12 + 3 = 96 + 3 = 99 = \text{dividend}$

Hence, the answer is correct.

$$(j) \quad \begin{array}{r} 7 \overline{) 63} \quad (9 \\ \underline{- 63} \\ 0 \end{array}$$

Thus, the quotient = 9 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder =
dividend $= 7 \times 9 + 0 = 63 + 0 = 63 = \text{dividend}$

Hence, the answer is correct.

$$(k) \quad \begin{array}{r} 5 \overline{) 45} \quad (9 \\ \underline{- 45} \\ 0 \end{array}$$

Thus, the quotient = 9 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder =
dividend $= 5 \times 9 + 0 = 45 + 0 = 45 = \text{dividend}$

Hence, the answer is correct.

$$(l) \quad \begin{array}{r} 3 \overline{) 87} \quad (29 \\ \underline{- 6} \downarrow \\ 27 \\ \underline{- 27} \\ 0 \end{array}$$

Thus, the quotient = 29 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder =
dividend $= 3 \times 29 + 0 = 87 + 0 = 87 = \text{dividend}$

Hence, the answer is correct.

$$(m) \quad \begin{array}{r} 3 \overline{) 99} (33 \\ \underline{-9} \\ 9 \\ \underline{-9} \\ 0 \end{array}$$

Thus, the quotient = 33 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder = dividend
 $= 3 \times 33 + 0 = 99 + 0 = 99 = \text{dividend}$

Hence, the answer is correct.

$$(n) \quad \begin{array}{r} 8 \overline{) 56} (7 \\ \underline{-56} \\ 0 \end{array}$$

Thus, the quotient = 7 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder = dividend
 $= 8 \times 7 + 0 = 56 + 0 = 56 = \text{dividend}$

Hence, the answer is correct.

$$(o) \quad \begin{array}{r} 6 \overline{) 66} (11 \\ \underline{-6} \\ 6 \\ \underline{-6} \\ 0 \end{array}$$

Thus, the quotient = 11 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder = dividend
 $= 6 \times 11 + 0 = 66 + 0 = 66 = \text{dividend}$

Hence, the answer is correct.

$$(p) \quad \begin{array}{r} 2 \overline{) 96} (48 \\ \underline{-8} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

Thus, the quotient = 48 and remainder = 0

Verification : We know that, divisor $\times$ quotient + remainder = dividend
 $= 2 \times 48 + 0 = 96 + 0 = 96 = \text{dividend}$

Hence, the answer is correct.

3. Solve the following

$$\begin{array}{r} 2 \overline{) 276} \\ \underline{- 2} \\ 7 \\ \underline{- 6} \\ 16 \\ \underline{- 16} \\ 0 \end{array}$$

$$\begin{array}{r} \overline{7)784} \quad (1) \\ \underline{-7} \\ 8 \\ \underline{-7} \\ 14 \\ \underline{-14} \\ 0 \end{array}$$

(c)

$$\begin{array}{r} \overline{4)979} \quad (244 \\ -8 \quad \downarrow \\ \hline 17 \quad \downarrow \\ -16 \quad \downarrow \\ \hline 19 \\ -16 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 4 \overline{) 474} (1 \\ \underline{-4} \\ 7 \\ \underline{-4} \\ 34 \\ \underline{-32} \\ 2 \end{array}$$

$$\begin{array}{r} \overline{8)967(1} \\ \underline{-8} \\ 16 \\ \underline{-16} \\ 7 \end{array}$$

$$\begin{array}{r} 6 \overline{) 818} \\ \underline{-6} \\ 21 \\ \underline{-18} \\ 38 \\ \underline{-36} \\ 2 \end{array}$$

$$\begin{array}{r} \overline{3)672} \quad (2) \\ -6 \downarrow \\ \hline 7 \downarrow \\ -6 \downarrow \\ \hline 12 \\ -12 \\ \hline 0 \end{array}$$

$$\begin{array}{r} \overline{3) 621} \quad (2 \\ -6 \downarrow \\ \hline 2 \downarrow \\ -0 \downarrow \\ \hline 21 \\ -21 \\ \hline 0 \end{array}$$

$$\begin{array}{r} \overbrace{8)854}^{(1)} \\ \underline{-8} \\ 5 \\ \underline{-0} \\ 54 \\ \underline{-48} \\ 6 \end{array}$$

$$\begin{array}{r} \overline{) 475} \quad \downarrow \\ - 45 \\ \hline 25 \\ - 25 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 703} \\ - 6 \\ \hline 10 \\ - 10 \\ \hline 3 \\ - 2 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 7 \overline{) 764} \\ \underline{- 7} \\ 6 \\ \underline{- 0} \\ 64 \\ \underline{- 63} \\ 1 \end{array}$$

$$\begin{array}{r} 3 \overline{) 2315} \\ \underline{- 2} \\ 3 \\ \underline{- 2} \\ 11 \\ \underline{- 10} \\ 15 \\ \underline{- 14} \\ 1 \end{array}$$

$$\begin{array}{r} 8 \overline{) 6567} 8 \\ - 64 \\ \hline 16 \\ - 16 \\ \hline 7 \\ - 0 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 6 \overline{) 3348} 5 \\ \underline{- 30} \\ 34 \\ \underline{- 30} \\ 48 \\ \underline{- 48} \\ 0 \end{array}$$

(d) $\overbrace{3 \ 3 \ 1 \ 5 \ 3}^{(e)}$

3	3	1	5	3
-	3	↓	↓	↓
	1			
	-	0	↓	
		15		
	-	15	↓	
		03		
		-	3	
			0	

$$\begin{array}{r} \overline{4) \overbrace{3212}^{803}} \\ \underline{-32} \\ 1 \\ \underline{-0} \\ 12 \\ \underline{-12} \\ 0 \end{array} \quad (f)$$

$$\begin{array}{r} \overline{2) 1985} \quad (992) \\ \underline{- 18} \\ 18 \\ \underline{- 18} \\ 05 \\ \underline{- 4} \\ 1 \end{array}$$

(g) $\overline{)9526} \begin{matrix} 1360 \\ \downarrow \\ \downarrow \\ \downarrow \\ \downarrow \\ \downarrow \end{matrix}$

(h)
$$\begin{array}{r} \overline{8)8132(1016)} \\ \underline{-8} \\ 1 \\ \underline{-0} \\ 13 \\ \underline{-8} \\ 52 \\ \underline{-48} \\ 4 \end{array}$$

(i)
$$\begin{array}{r} \overline{7)6543(934} \\ \underline{-63} \downarrow \\ 24 \downarrow \\ \underline{-21} \downarrow \\ 33 \\ \underline{-28} \\ 5 \end{array}$$

(j)
$$\begin{array}{r} \overline{5)5759(1151)} \\ \underline{-5} \\ 7 \\ \underline{-5} \\ 25 \\ \underline{-25} \\ 9 \\ \underline{-5} \\ 4 \end{array}$$

(k)
$$\begin{array}{r} 6 \overline{) 4292715} \\ \underline{- 42} \downarrow \\ 9 \downarrow \\ \underline{- 6} \downarrow \\ 32 \\ \underline{- 30} \\ 2 \end{array}$$

(1)
$$\begin{array}{r} \overline{3)2923} \overline{974} \\ \underline{-27} \downarrow \\ 22 \downarrow \\ \underline{-21} \downarrow \\ 13 \\ \underline{-12} \\ 1 \end{array}$$

(a)
$$\begin{array}{r} 10 \overline{) 71} \quad (7 \\ \underline{- 70} \\ 1 \end{array}$$

Quotient = 7
Reminder = 1

(b)
$$\begin{array}{r} 10 \overline{) 53} \left(5 \right. \\ \underline{- 50} \\ 3 \end{array}$$

Quotient = 5
Reminder = 3

(c)
$$\begin{array}{r} 10 \overline{) 58} \left(5 \right. \\ \underline{- 50} \\ 8 \end{array}$$

Quotient = 5
Remainder = 8

$$\begin{array}{r} 10 \overline{) 70} \begin{array}{l} 7 \\ \hline \end{array} \\ \underline{- 70} \\ 0 \end{array}$$

Quotient = 7
Remainder = 0

$$\begin{array}{r} 10 \overline{) 75} \begin{array}{l} 7 \\ \hline \end{array} \\ \underline{- 70} \\ 5 \end{array}$$

Quotient = 7
Remainder = 5

$$\begin{array}{r} 10 \overline{) 66} \begin{array}{l} 6 \\ \hline \end{array} \\ \underline{- 60} \\ 6 \end{array}$$

Quotient = 6
Remainder = 6

$$\begin{array}{r} 10 \overline{) 87} \begin{array}{l} 8 \\ \hline \end{array} \\ \underline{- 80} \\ 7 \end{array}$$

Quotient = 8
Remainder = 7

$$\begin{array}{r} 10 \overline{) 95} \begin{array}{l} 9 \\ \hline \end{array} \\ \underline{- 90} \\ 5 \end{array}$$

Quotient = 9
Remainder = 5

$$\begin{array}{r} 10 \overline{) 34} \begin{array}{l} 3 \\ \hline \end{array} \\ \underline{- 30} \\ 4 \end{array}$$

Quotient = 3
Remainder = 4

$$\begin{array}{r} 10 \overline{) 46} \begin{array}{l} 4 \\ \hline \end{array} \\ \underline{- 40} \\ 6 \end{array}$$

Quotient = 4
Remainder = 6

$$\begin{array}{r} 10 \overline{) 96} \begin{array}{l} 9 \\ \hline \end{array} \\ \underline{- 90} \\ 6 \end{array}$$

Quotient = 9
Remainder = 6

$$\begin{array}{r} 10 \overline{) 88} \begin{array}{l} 8 \\ \hline \end{array} \\ \underline{- 80} \\ 8 \end{array}$$

Quotient = 8
Remainder = 8

2. Solve the following:

$$\begin{array}{r} 10 \overline{) 522} \begin{array}{l} 52 \\ \hline \end{array} \\ \underline{- 50} \downarrow \\ 22 \\ \underline{- 20} \\ 2 \end{array}$$

$$\begin{array}{r} 10 \overline{) 538} \begin{array}{l} 53 \\ \hline \end{array} \\ \underline{- 50} \downarrow \\ 38 \\ \underline{- 30} \\ 8 \end{array}$$

$$\begin{array}{r} 10 \overline{) 808} \begin{array}{l} 80 \\ \hline \end{array} \\ \underline{- 80} \downarrow \\ 8 \\ \underline{- 0} \\ 8 \end{array}$$

$$\begin{array}{r} 10 \overline{) 545} \begin{array}{l} 54 \\ \hline \end{array} \\ \underline{- 50} \downarrow \\ 45 \\ \underline{- 40} \\ 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 423} \begin{array}{l} 42 \\ \hline \end{array} \\ \underline{- 40} \downarrow \\ 23 \\ \underline{- 20} \\ 3 \end{array}$$

$$\begin{array}{r} 10 \overline{) 628} \begin{array}{l} 62 \\ \hline \end{array} \\ \underline{- 60} \downarrow \\ 28 \\ \underline{- 20} \\ 8 \end{array}$$

$$\begin{array}{r} 10 \overline{) 559} \begin{array}{l} 55 \\ \hline \end{array} \\ \underline{- 50} \downarrow \\ 59 \\ \underline{- 50} \\ 9 \end{array}$$

$$\begin{array}{r} 10 \overline{) 330} \begin{array}{l} 33 \\ \hline \end{array} \\ \underline{- 30} \downarrow \\ 30 \\ \underline{- 30} \\ 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 250} \begin{array}{l} 25 \\ \hline \end{array} \\ \underline{- 20} \downarrow \\ 50 \\ \underline{- 50} \\ 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 664} \begin{array}{l} \downarrow \\ 64 \end{array} \\ \underline{- 60} \\ 64 \\ \underline{- 60} \\ 4 \end{array}$$

$$\begin{array}{r} 10 \overline{) 345} \begin{array}{l} \downarrow \\ 45 \end{array} \\ \underline{- 30} \\ 45 \\ \underline{- 40} \\ 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 945} \begin{array}{l} \downarrow \\ 45 \end{array} \\ \underline{- 90} \\ 45 \\ \underline{- 40} \\ 5 \end{array}$$

3. Divide the following:

$$\begin{array}{r} 10 \overline{) 1205} \begin{array}{l} \downarrow \\ 20 \end{array} \\ \underline{- 10} \\ 20 \\ \underline{- 20} \\ 5 \\ \underline{- 0} \\ 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 1925} \begin{array}{l} \downarrow \\ 92 \end{array} \\ \underline{- 10} \\ 92 \\ \underline{- 90} \\ 25 \\ \underline{- 20} \\ 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 1123} \begin{array}{l} \downarrow \\ 12 \end{array} \\ \underline{- 10} \\ 12 \\ \underline{- 10} \\ 23 \\ \underline{- 20} \\ 3 \end{array}$$

$$\begin{array}{r} 10 \overline{) 1671} \begin{array}{l} \downarrow \\ 67 \end{array} \\ \underline{- 10} \\ 67 \\ \underline{- 60} \\ 71 \\ \underline{- 70} \\ 1 \end{array}$$

$$\begin{array}{r} 10 \overline{) 1550} \begin{array}{l} \downarrow \\ 55 \end{array} \\ \underline{- 10} \\ 55 \\ \underline{- 50} \\ 50 \\ \underline{- 50} \\ 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 2685} \begin{array}{l} \downarrow \\ 68 \end{array} \\ \underline{- 20} \\ 68 \\ \underline{- 60} \\ 85 \\ \underline{- 80} \\ 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 5244} \begin{array}{l} \downarrow \\ 24 \end{array} \\ \underline{- 50} \\ 24 \\ \underline{- 20} \\ 44 \\ \underline{- 40} \\ 4 \end{array}$$

$$\begin{array}{r} 10 \overline{) 3640} \begin{array}{l} \downarrow \\ 64 \end{array} \\ \underline{- 30} \\ 64 \\ \underline{- 60} \\ 40 \\ \underline{- 40} \\ 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 8555} \begin{array}{l} \downarrow \\ 55 \end{array} \\ \underline{- 80} \\ 55 \\ \underline{- 50} \\ 55 \\ \underline{- 50} \\ 5 \end{array}$$

$$\begin{array}{r} 10 \overline{) 6260} \begin{array}{l} \downarrow \\ 26 \end{array} \\ \underline{- 60} \\ 26 \\ \underline{- 20} \\ 60 \\ \underline{- 60} \\ 0 \end{array}$$

$$\begin{array}{r} 10 \overline{) 6678} \begin{array}{l} \downarrow \\ 67 \end{array} \\ \underline{- 60} \\ 67 \\ \underline{- 60} \\ 78 \\ \underline{- 70} \\ 8 \end{array}$$

$$\begin{array}{r} 10 \overline{) 9720} \begin{array}{l} \downarrow \\ 72 \end{array} \\ \underline{- 90} \\ 72 \\ \underline{- 70} \\ 20 \\ \underline{- 20} \\ 0 \end{array}$$

Exercise 6.5

- Total number of students in class = 66
 Number of students in each team = 11
 Teams can be formed = $66 \div 11$
 = 6

$$\begin{array}{r} 11 \overline{) 66} \quad (6 \\ - 66 \\ \hline 0 \end{array}$$

Hence, they formed 6 teams

- Amount to be divided = ₹930
 Number of students = 10
 Each student will receive = ₹ $930 \div 10$

$$\begin{array}{r} 10 \overline{) 930} \quad (93 \\ - 90 \\ \hline 30 \\ - 30 \\ \hline 0 \end{array}$$

Hence, each student will get ₹93.

- Total number of books in 15 rows = 675
 The number of books in one row = $675 \div 15$

$$\begin{array}{r} 15 \overline{) 675} \quad (45 \\ - 60 \\ \hline 75 \\ - 75 \\ \hline 0 \end{array}$$

Hence, 45 books are arranged in each row.

- Toffees to be divided = 976
 Number of girls = 122
 Each girl will get = $976 \div 122$
 Hence, each girl will get the 8 toffees.

$$\begin{array}{r} 122 \overline{) 976} \quad (8 \\ - 976 \\ \hline 0 \end{array}$$

- Total number of students in bench = 7281
 The number of students in one bench = 9
 The number of benches = $7281 \div 9$

$$\begin{array}{r} 9 \overline{) 7281} \quad (809 \\ - 72 \\ \hline 81 \\ - 81 \\ \hline 0 \end{array}$$

Hence, 809 benches are required for 7281 students.

6. Total amount = ₹950

The cost of one worth pen = ₹12

The number of pens can be purchased = ₹950 ÷ ₹12

$$\begin{array}{r} 12 \overline{) 950} (79 \\ - 84 \downarrow \\ \hline 110 \\ - 108 \\ \hline 2 \end{array}$$

Hence, Preety purchased 79 pens and ₹2 left.

7. Arun travels in 10 hours = 810 km

Arun travel in one hour = 810 km ÷ 10

$$\begin{array}{r} 10 \overline{) 810} (81 \\ - 80 \downarrow \\ \hline 10 \\ - 10 \\ \hline 0 \end{array}$$

Hence, Arun travel 81 km in one hour.

8. Total number of eggs in trays = 210

The number of eggs in one tray = 6

Total number of trays required = 210 ÷ 6

$$\begin{array}{r} 6 \overline{) 210} (35 \\ - 18 \downarrow \\ \hline 30 \\ - 30 \\ \hline 0 \end{array}$$

Hence, 35 trays are required.

9. Total number of players in 6 coaches train = 1254

The number of players in one coach train = 1254 ÷ 6

$$\begin{array}{r} 6 \overline{) 1254} (209 \\ - 12 \downarrow \\ \hline 5 \downarrow \\ - 0 \downarrow \\ \hline 54 \\ - 54 \\ \hline 0 \end{array}$$

Hence, 209 players in each coach.

10. 7 people planted the apple trees = 588

1 people planted the apple trees = $588 \div 7$

$$\begin{array}{r} 7 \overline{)588} (84 \\ \underline{-56} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

Hence, each people planted 84 apple trees.

11. Total number of balls in boxes = 656

The number of balls in one box = 8

The number of boxes required = $656 \div 8$

$$\begin{array}{r} 8 \overline{)656} (82 \\ \underline{-64} \\ 16 \\ \underline{-16} \\ 0 \end{array}$$

Hence, 82 boxes are required.

12. The product of two numbers = 750

One number = 6

The second number = $750 \div 6$

$$\begin{array}{r} 6 \overline{)750} (125 \\ \underline{-6} \\ 15 \\ \underline{-12} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

Hence, the second number is 125.

13. A book seller has the books = 960

A book seller gives the books each student = 7

Number of students will get the book = $960 \div 7$

$$\begin{array}{r}
 7 \overline{) 960} (137 \\
 \underline{- 7} \\
 26 \\
 \underline{- 21} \\
 50 \\
 \underline{- 49} \\
 1
 \end{array}$$

Hence, 137 students will get the books and one students left.

14. A machine made the toys in 25 hours = 7925

A machine made the toys in one hour = $7925 \div 25$

$$\begin{array}{r}
 25 \overline{) 7925} (317 \\
 \underline{- 75} \\
 42 \\
 \underline{- 25} \\
 175 \\
 \underline{- 175} \\
 0
 \end{array}$$

Hence, machine made 317 toys in one hour.

15. Total number of trees in 24 rows = 1488

The number of trees in one row = $1488 \div 24$

$$\begin{array}{r}
 24 \overline{) 1488} (62 \\
 \underline{- 144} \\
 48 \\
 \underline{- 48} \\
 0
 \end{array}$$

Hence, 62 trees are in each row.

Chapter 7 : Fraction

Exercise 7.1

1. Do yourself
2. Do yourself
3. Do yourself
4. Do yourself
5. Do yourself
6. Do yourself
7. Do yourself
8. Write the fraction for the coloured part in each of the following figures:

(a) $\frac{3}{4}$
(b) $\frac{5}{6}$
(c) $\frac{1}{3}$
(d) $\frac{1}{2}$
(e) $\frac{2}{3}$
(f) $\frac{1}{4}$
9. 2 one-half makes a whole.

10. 3 one-third makes a whole.

11. 4 one-fourth makes a whole.

12. In the following, write answers in the boxes:

- | | |
|--|----------------|
| (a) In how many equal parts is the figure divided? | 5 |
| How many parts are shaded? | 2 |
| Write the fraction for unshaded of part. | $\frac{2}{5}$ |
| (b) In how many equal parts is the figure divided | 10 |
| How many parts are not shaded? | 5 |
| Write the fraction for the shaded parts. | $\frac{5}{10}$ |

Exercise 7.2

1. Colour to show the given fraction:

Do yourself.

2. Look at these collections of figures, write below each, the fraction which represents the shaded part:

- (a) $\frac{3}{9}$ (b) $\frac{4}{7}$ (c) $\frac{9}{10}$ (d) $\frac{5}{6}$ (e) $\frac{4}{8}$ (f) $\frac{3}{6}$

3. Write the fraction whose:

- (a) $\frac{3}{7}$ (b) $\frac{3}{5}$ (c) $\frac{5}{8}$ (d) $\frac{5}{6}$ (e) $\frac{9}{10}$ (f) $\frac{4}{9}$

4. Write the numerator and denominator of each of the following fractions:

- (a) N = 2, D = 5 (b) N = 3, D = 4 (c) N = 7, D = 8
(d) N = 6, D = 11 (e) N = 7, D = 12 (f) N = 8, D = 9
(g) N = 4, D = 5 (h) N = 1, D = 4 (i) N = 2, D = 3
(j) N = 7, D = 13

5. Write the fraction for each of the following fractional numbers:

- (a) The fraction of three by eight = $\frac{3}{8}$
(b) The fraction of two by three = $\frac{2}{3}$
(c) The fraction of four upon nine = $\frac{4}{9}$
(d) The fraction of seven upon thirteen = $\frac{7}{13}$

- (e) The fraction of four upon seven = $\frac{4}{7}$
 (f) The fraction of two-ninths = $\frac{2}{9}$

6. Write in words:

- (a) $\frac{7}{8}$ = Seven-eighth (b) $\frac{2}{3}$ = two-thirds (c) $\frac{1}{5}$ = One-fifth
 (d) $\frac{5}{6}$ = five-sixths (e) $\frac{3}{7}$ = Three-sevens (f) $\frac{1}{3}$ = One-third

Exercise 7.3

1. Draw a collection of objects. Divide the collection into suitable number of equal parts and find the value of :

- (a) $\frac{1}{3} \times 15 = 5$ (b) $\frac{1}{6} \times 24 = 4$ (c) $\frac{1}{3} \times 18 = 6$
 (d) $\frac{1}{3} \times 27 = 9$ (e) $\frac{1}{5} \times 25 = 5$ (f) $\frac{1}{3} \times 21 = 7$

2. Colour $\frac{1}{2}$ of each of the following collections and fill in the boxes:

- (a) $10 \div 2 = 5$ (b) $30 \div 2 = 15$
 $\therefore \frac{1}{2}$ of 10 = 5 $\therefore \frac{1}{2}$ of 30 = 15

3. Colour $\frac{1}{7}$ of each collection and fill in the boxes:

- (a) $35 \div 7 = 5$ (b) $21 \div 7 = 3$
 $\therefore \frac{1}{7}$ of 35 = 5 $\therefore \frac{1}{7}$ of 21 = 3

4. Total collection of objects = 18

$$\text{of collection of objects} = \frac{1}{2} \text{ of } 18 = \frac{1}{2} \times 18 = 9$$

5. Total collection of objects = 32

$$\begin{aligned} \text{Three-fourth} \left(\frac{3}{4} \right) \text{ collection of objects} &= \frac{3}{4} \text{ of } 32 \\ &= \frac{3}{4} \times 32 \\ &= 3 \times 8 = 24 \end{aligned}$$

6. Total collection of objects = 24

$$\text{collection of objects} = \frac{1}{3} \text{ of } 24 = \frac{1}{3} \times 24 = 8$$

Chapter 8 : Roman Numerals

Exercise 8

1. Express each of the following as Roman Numerals:

- (a) 9 = **IX** (b) 8 = **VIII** (c) 25 = **XXV**
(d) 29 = **XXIX** (e) 17 = **XVII** (f) 32 = **XXXII**

2. Express each of the following as Hindu-Arabic Numerals:

- (a) **XXII** = **22** (b) **XXIX** = **29** (c) **IX** = **9**
(d) **XXXVII** = **37** (e) **XXIV** = **24** (f) **XI** = **11**

5. Write the Hindi-Number for the following:

- (a) 19 = 19 (b) 48 = 48 (c) 20 = 20 (d) 19 = 19
(e) 12 = 12 (f) 35 = 35 (g) 22 = 22 (h) 32 = 32
(i) 85 = 85 (j) 63 = 63

6. Put a tick (✓) on the correct statements:

- (b), (c), (h), (i)

7. Write the Roman-Number for the following:

- (a) Twenty-five = **XXV** (b) Sixty-nine = **LXIX**
(c) Thirty-three = **XXXIII** (d) Seventy-eight = **LXXVIII**
(e) Twenty-one = **XXI** (f) Ninety-one = **XCI**
(g) Forty-four = **XLIV** (h) Seventy-two = **LXXII**
(i) Fifty-five = **LV** (j) Three = **III**
-

Chapter 9 : Data Handling

Exercise 9

1. Read the pictograph and answer the following questions:

- (a) The highest number of animals is cats.
(b) No.
(c) The number of dogs in the farm = $6 \times 5 = 30$
(d) The total number of animals in the farm

$$= 3 \times 5 + 5 \times 5 + 6 \times 5 + 11 \times 5$$

$$= 15 + 25 + 30 + 55 = 125$$

2. Read the pictograph and answer the questions given below:

- (a) The highest number of boys are in school C and school E.
- (b) The number of boys in school C = $8 \times 25 = 200$
- (c) School B has the lowest number of boys.
- (d) The total number of boys in five schools
 $= 6 \times 25 + 2 \times 25 + 8 \times 25 + 4 \times 25 + 8 \times 25$
 $= 150 + 50 + 200 + 100 + 200 = 700$

3. Answer the following questions:

- (a) Toys are sold by shop D = $9 \times 5 = 45$
- (b) No.
- (c) The total number of toys sold by these four shops
 $= 6 \times 5 + 7 \times 5 + 7 \times 5 + 9 \times 5$
 $= 30 + 35 + 35 + 45 = 145$

Chapter 10 : Geometry

Exercise 10.1

1. Look at the figure and fill in the blanks:

- (a) Number of **5**
- (b) Number of **2**
- (c) Number of **3**
- (d) Number of **10**

2. Look at the figure, count and fill in the blanks:

- (a) It has **5** rectangles. (b) It has **4** squares.
- (c) It has **2** triangles. (d) It has **2** circles.

3. Colour the picture as indicated:

Do it yourself

Exercise 10.2

1. Fill in the blanks:

- (a) A rectangle has **4** sides and **4** vertices.
- (b) A circle has **no** side and **no** vertex.
- (c) A square has **4** vertices and **4** sides.
- (d) A triangle has **3** sides and **3** vertices.
- (e) A cuboid has **6** faces, **12** edges and **8** vertices.

- (f) All the faces of a **cube** are identical.
- (g) A **sphere** has no vertex and no edge.
- (h) A cylinder has **2** plane faces and **2** edges.
- (i) A **cylinder** has two edges and no vertex.
- 2. Put a tick (✓) on the correct shape for each of the following:**
- (a) A face of a dice square
- (b) A black-board rectangle
- (c) The face of moon circle
- (d) A coin circle
- (e) A set square triangle
- 3. Give examples of three objects which are in the shape of:**
- (a) a cone : keep(oil filter), Ice cone, Cup of a jockey.
- (b) a cylinder : Pencil, Rod, Gas Cylinder.
-

Chapter 11 : Measurement - Capacity

Exercise 11.1

- 1. Fill in the boxes to make equal measures in the given boxes:**
- (a) $1\text{ l} = 2\text{ 500 ml}$ (b) 450 ml (c) $1000\text{ ml} = 1\text{ l}$
 (d) 3000 ml
- 2. Convert the following into millilitres:**
- (a) $9\text{ l} = 9 \times 1000\text{ ml} = 9000\text{ ml}$
- (b) $6\text{ l} = 6 \times 1000\text{ ml} = 6000\text{ ml}$
- (c) $7\text{ l} = 7 \times 1000\text{ ml} = 7000\text{ ml}$
- (d) $8\text{ l} = 8 \times 1000\text{ ml} = 8000\text{ ml}$
- (e) $7\text{ l} = 7 \times 1000\text{ ml} = 7000\text{ ml}$
- (f) $8\text{ l } 805\text{ ml} = 8\text{ l} + 805\text{ ml}$
 $= 8 \times 1000\text{ ml} + 805\text{ ml}$
 $= 8000\text{ ml} + 805\text{ ml} = 8805\text{ ml}$
- (g) $9\text{ l } 350\text{ ml} = 9\text{ l} + 350\text{ ml}$
 $= 9 \times 1000\text{ ml} + 350\text{ ml}$
 $= 9000\text{ ml} + 350\text{ ml} = 9350\text{ ml}$
- (h) $3\text{ l } 475\text{ ml} = 3\text{ l} + 475\text{ ml}$
 $= 3 \times 1000\text{ ml} + 475\text{ ml}$
 $= 3000\text{ ml} + 475\text{ ml} = 3475\text{ ml}$

$$\begin{aligned}
 \text{(i) } 5 \text{ l } 372 \text{ ml} &= 5 \text{ l} + 372 \text{ ml} \\
 &= 5 \times 1000 \text{ ml} + 372 \text{ ml} \\
 &= 5000 \text{ ml} + 372 \text{ ml} = 5372 \text{ ml}
 \end{aligned}$$

3. Convert the following into litres and millilitres:

$$\begin{aligned}
 \text{(a) } 5320 \text{ ml} &= 5000 \text{ ml} + 320 \text{ ml} \\
 &= 5000 \times \frac{1}{1000} \text{ l} + 320 \text{ ml} \\
 &= 5 \text{ l} + 320 \text{ ml} = 5 \text{ l } 320 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(b) } 9875 \text{ ml} &= 9000 \text{ ml} + 875 \text{ ml} \\
 &= 9000 \times \frac{1}{1000} \text{ l} + 875 \text{ ml} \\
 &= 9 \text{ l} + 875 \text{ ml} = 9 \text{ l } 875 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(c) } 3025 \text{ ml} &= 3000 \text{ ml} + 25 \text{ ml} \\
 &= 3000 \times \frac{1}{1000} \text{ l} + 25 \text{ ml} \\
 &= 3 \text{ l} + 25 \text{ ml} = 3 \text{ l } 25 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(d) } 5280 \text{ ml} &= 5000 \text{ ml} + 280 \text{ ml} \\
 &= 5000 \times \frac{1}{1000} \text{ l} + 280 \text{ ml} \\
 &= 5 \text{ l} + 280 \text{ ml} = 5 \text{ l } 280 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(e) } 9550 \text{ ml} &= 9000 \text{ ml} + 550 \text{ ml} \\
 &= 9000 \times \frac{1}{1000} \text{ l} + 550 \text{ ml} \\
 &= 9 \text{ l} + 550 \text{ ml} = 9 \text{ l } 550 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(f) } 7804 \text{ ml} &= 7000 \text{ ml} + 804 \text{ ml} \\
 &= 7000 \times \frac{1}{1000} \text{ l} + 804 \text{ ml} \\
 &= 7 \text{ l} + 804 \text{ ml} = 7 \text{ l } 804 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(g) } 7005 \text{ ml} &= 7000 \text{ ml} + 5 \text{ ml} \\
 &= 7000 \times \frac{1}{1000} \text{ l} + 5 \text{ ml} \\
 &= 7 \text{ l} + 5 \text{ ml} = 7 \text{ l } 5 \text{ ml}
 \end{aligned}$$

$$\begin{aligned}
 \text{(h) } 5521 \text{ ml} &= 5000 \text{ ml} + 521 \text{ ml} \\
 &= 5000 \times \frac{1}{1000} \text{ l} + 521 \text{ ml}
 \end{aligned}$$

$$= 5\text{ l} + 521\text{ ml} = 5\text{ l } 521\text{ ml}$$

(i) 3789 ml

$$= 3000\text{ ml} + 789\text{ ml}$$

$$= 3000 \times \frac{1}{1000}\text{ l} + 789\text{ ml}$$

$$= 3\text{ l} + 789\text{ ml} = 3\text{ l } 789\text{ ml}$$

Exercise 11.2

1. Add:

(a)

<i>l</i>	<i>ml</i>
7	618
+	3 585
11 203	

(b)

<i>l</i>	<i>ml</i>
9	526
+	7 315
16 841	

(c)

<i>l</i>	<i>ml</i>
6	700
+	3 824
10 524	

(d)

<i>l</i>	<i>ml</i>
15	670
+	8 780
24 450	

(e)

<i>l</i>	<i>ml</i>
15	240
+	7 380
22 620	

(f)

<i>l</i>	<i>ml</i>
15	550
+	11 860
27 410	

2. Arrange in columns and find the sum of:

(a)

<i>l</i>	<i>ml</i>
8	472
+	4 385
12 857	

(b)

<i>l</i>	<i>ml</i>
6	395
+	7 422
13 817	

Thus, the sum is $12\text{ l } 857\text{ ml}$.

Thus, the sum is $13\text{ l } 817\text{ ml}$.

(c)

<i>l</i>	<i>ml</i>
15	048
+	17 104
26 152	

(d)

<i>l</i>	<i>ml</i>
17	043
+	13 005
30 048	

Thus, the sum is $26\text{ l } 152\text{ ml}$.

Thus, the sum is $30\text{ l } 48\text{ ml}$.

3. To get the result, we add as follows :

	<i>l</i>	<i>ml</i>
	9	475
+	6	400
	15	875

Thus, the both containers 15/875ml diesel contains.

4. A shopkeeper sell cooking oil on Monday = 9/550ml

A shopkeeper sell cooking oil on Tuesday = 14/975ml

Total = 9/550ml + 14/975ml

	<i>l</i>	<i>ml</i>
	9	550
+	14	975
	24	525

Thus, the shopkeeper sells 24/ 525ml in two days.

Exercise 11.3

1. Subtract:

(a)

	<i>l</i>	<i>ml</i>
	9	780
-	6	890
	2	890

(b)

	<i>l</i>	<i>ml</i>
	11	885
-	7	650
	4	235

(c)

	<i>l</i>	<i>ml</i>
	9	450
-	6	287
	3	163

(d)

	<i>l</i>	<i>ml</i>
	15	406
-	9	793
	5	613

(e)

	<i>l</i>	<i>ml</i>
	25	770
-	18	685
	7	85

(f)

	<i>l</i>	<i>ml</i>
	22	554
-	15	800
	6	754

(g) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">9 605</td><td></td></tr> <tr><td style="text-align: right;">– 6 540</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">3 65</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	9 605		– 6 540		3 65		(h) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">8 317</td><td></td></tr> <tr><td style="text-align: right;">– 6 804</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">1 513</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	8 317		– 6 804		1 513		(i) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">15 517</td><td></td></tr> <tr><td style="text-align: right;">– 8 646</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">6 871</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	15 517		– 8 646		6 871	
<i>l</i>	<i>ml</i>																									
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– 8 646																										
6 871																										

2. Arrange litres and millilitres as shown below:

(a) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">11 600</td><td></td></tr> <tr><td style="text-align: right;">– 9 370</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">2 230</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	11 600		– 9 370		2 230		(b) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">13 850</td><td></td></tr> <tr><td style="text-align: right;">– 8 295</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">5 555</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	13 850		– 8 295		5 555	
<i>l</i>	<i>ml</i>																
11 600																	
– 9 370																	
2 230																	
<i>l</i>	<i>ml</i>																
13 850																	
– 8 295																	
5 555																	

Thus, the sum is 2/230ml.

Thus, the sum is 5/555ml.

(c) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">17 495</td><td></td></tr> <tr><td style="text-align: right;">– 14 222</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">3 273</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	17 495		– 14 222		3 273		(d) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: right;"><i>l</i></th><th style="text-align: right;"><i>ml</i></th></tr> <tr><td style="text-align: right;">9 925</td><td></td></tr> <tr><td style="text-align: right;">– 7 872</td><td></td></tr> <tr><td style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; text-align: right;">2 53</td><td></td></tr> </table>	<i>l</i>	<i>ml</i>	9 925		– 7 872		2 53	
<i>l</i>	<i>ml</i>																
17 495																	
– 14 222																	
3 273																	
<i>l</i>	<i>ml</i>																
9 925																	
– 7 872																	
2 53																	

Thus, the sum is 3/ 273ml.

Thus, the sum is 2/ 53ml.

3. Suraj drinks the milk = 9/ 750ml/

Ajeet drinks the milk = 7/ 800ml/

Suraj drink the milk than Ajeet = 9/ 750ml/ – 7/ 800ml/

<i>l</i>	<i>ml</i>
9 750	
– 7 800	
1 950	

Thus, Suraj drinks 1/ 950ml/ more milk than Ajeet.

4. A milkman has the milk = 8l 750ml
 Milkman sell the milk = 4l 900ml
 The milk left = 8l 750ml - 4l 900ml

	<i>l</i>	<i>ml</i>
	8	750
-	4	900
	3	850

Thus, the 3l 850ml milk left him.

5. A tin contained mustard oil = 12l 425ml
 Wasted mustard oil = 775ml
 Mustard oil left = 12l 425ml - 775ml

	<i>l</i>	<i>ml</i>
	12	425
-		775
	11	650

Thus, the 11l 650ml mustard oil left in the tin.

6. The petrol used during the journey = 15l 800ml - 7l 375ml

	<i>l</i>	<i>ml</i>
	15	800
-	7	375
	8	425

Thus, the 8l 475ml petrol used during the journey.

7. Total mineral water in tank = 86l 650ml
 Mineral water used in bottling = 64l 780ml
 Mineral water left in the tank = 86l 650ml - 64l 780ml

	<i>l</i>	<i>ml</i>
	86	650
-	64	780
	21	870

Hence, 21l 870ml mineral water left in tank.

Chapter 12 : Measurement - Mass (Weight)

Exercise 12.1

1. Fill in the boxes to make equal weights on both sides:

(a) $1 \text{ kg} = 200\text{g} + 200\text{g} + 200\text{g} + 200\text{g} + 200\text{g}$

(b) $1 \text{ kg} = 500\text{g} + 500\text{g}$

(c) $1\text{kg} = 200\text{g} + 400\text{g} + 400\text{g}$

(d) $500\text{g} = 200\text{g} + 200\text{g} + 100\text{g}$

2. Convert the following into grams:

(a) $7\text{kg} = 7 \times 1000\text{g} = 7000\text{g}$

(b) $9\text{kg} = 9 \times 1000\text{g} = 9000\text{g}$

(c) $8\text{kg} = 8 \times 1000\text{g} = 8000\text{g}$

(d) $3\text{kg} = 3 \times 1000\text{g} = 3000\text{g}$

(e) $5\text{kg} = 5 \times 1000\text{g} = 5000\text{g}$

(f) $9\text{kg } 225\text{g} = 9\text{kg} + 225\text{g}$
 $= 9 \times 1000\text{g} + 225\text{g}$
 $= 9000\text{g} + 225\text{g} = 9225\text{g}$

(g) $7\text{kg } 400\text{g} = 7\text{kg} + 400\text{g}$
 $= 7 \times 1000\text{g} + 400\text{g}$
 $= 7000\text{g} + 400\text{g} = 7400\text{g}$

(h) $4\text{kg } 750\text{g} = 4\text{kg} + 750\text{g}$
 $= 4 \times 1000\text{g} + 750\text{g}$
 $= 4000\text{g} + 750\text{g} = 4750\text{g}$

(i) $7\text{kg } 90\text{g} = 7\text{kg} + 90\text{g}$
 $= 7 \times 1000\text{g} + 90\text{g}$
 $= 7000\text{g} + 90\text{g} = 7090\text{g}$

3. Fill in the blanks:

- (a) 4 kg 75 g = **4075** g (b) **8000** g = 8 kg
(c) 7000 g = **7** kg (d) 9 kg 655 g = **9655** g
(e) 3 kg **980** g = 3980 g (f) 5 kg 9 g = **5009** g

4. Convert the following into kilograms and grams:

(a) $3000\text{g} = 3000 \times \frac{1}{1000}\text{kg} = 3\text{kg}$

(b) $8650\text{g} = 8000\text{g} + 650\text{g}$
 $= 8000 \times \frac{1}{1000}\text{kg} + 650\text{g}$
 $= 8\text{kg} + 650\text{g} = 8\text{kg } 650\text{g}$

(c) $9802\text{g} = 9000\text{g} + 802\text{g}$
 $= 9000 \times \frac{1}{1000}\text{kg} + 802\text{g}$
 $= 9\text{kg} + 802\text{g} = 9\text{kg } 802\text{g}$

(d) $4230\text{g} = 4000\text{g} + 230\text{g}$
 $= 4000 \times \frac{1}{1000}\text{kg} + 230\text{g}$
 $= 4\text{kg} + 230\text{g} = 4\text{kg } 230\text{g}$

(e) $5465\text{g} = 5000\text{g} + 465\text{g}$
 $= 5000 \times \frac{1}{1000}\text{kg} + 465\text{g}$
 $= 5\text{kg} + 465\text{g} = 5\text{ kg } 465\text{g}$

(f) $7560\text{g} = 7000\text{g} + 560\text{g}$
 $= 7000 \times \frac{1}{1000}\text{kg} + 560\text{g}$
 $= 7\text{kg} + 560\text{g} = 7\text{kg } 560\text{g}$

$$\begin{aligned}
 \text{(g)} \quad 5024\text{g} &= 5000\text{g} + 24\text{g} \\
 &= 5000 \times \frac{1}{1000} \text{kg} + 24\text{g} \\
 &= 5\text{kg} + 24\text{g} = 5\text{kg } 24\text{g} \\
 \text{(h)} \quad 7984\text{g} &= 7000\text{g} + 984\text{g} \\
 &= 7000 \times \frac{1}{1000} \text{kg} + 984\text{g} \\
 &= 7\text{kg} + 984\text{g} = 7\text{kg } 984\text{g} \\
 \text{(i)} \quad 5992\text{g} &= 5000\text{g} + 992\text{g} \\
 &= 5000 \times \frac{1}{1000} \text{kg} + 990\text{g} \\
 &= 5\text{kg} + 992\text{g} = 5\text{kg } 992\text{g} \\
 \text{(j)} \quad 4560\text{g} &= 4000\text{g} + 560\text{g} \\
 &= 4000 \times \frac{1}{1000} \text{kg} + 560\text{g} \\
 &= 4\text{kg} + 560\text{g} = 4\text{kg } 560\text{g}
 \end{aligned}$$

Exercise 12.2

1. Add:

(a) <table border="0"> <thead> <tr> <th>kg</th> <th>g</th> </tr> </thead> <tbody> <tr> <td>7</td> <td>525</td> </tr> <tr> <td>+</td> <td>9 960</td> </tr> <tr> <td colspan="2" style="border: 1px solid black; border-radius: 10px; padding: 2px;">17 485</td> </tr> </tbody> </table>	kg	g	7	525	+	9 960	17 485		(b) <table border="0"> <thead> <tr> <th>kg</th> <th>g</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>470</td> </tr> <tr> <td>+</td> <td>9 325</td> </tr> <tr> <td colspan="2" style="border: 1px solid black; border-radius: 10px; padding: 2px;">17 795</td> </tr> </tbody> </table>	kg	g	8	470	+	9 325	17 795		(c) <table border="0"> <thead> <tr> <th>kg</th> <th>g</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>432</td> </tr> <tr> <td>+</td> <td>7 567</td> </tr> <tr> <td colspan="2" style="border: 1px solid black; border-radius: 10px; padding: 2px;">16 999</td> </tr> </tbody> </table>	kg	g	9	432	+	7 567	16 999	
kg	g																									
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2. Arrange the column and find the sum:

- (a) Arrange kilograms and grams as shown below. Then add g to g and kg to kg.

kg	g
3	423
+	6 062
9 485	

Thus, the sum is 9kg 485g.

(b)

kg	g
9	625
+	5 423
14	048

Thus, the sum is 14kg 48g.

(c)

kg	g
12	587
+	8 235
20	822

Thus, the sum is 20kg 822g.

(d)

kg	g
17	625
+	12 750
30	375

Thus, the sum is 30kg 375g.

3. To get the result, we add as follows:

kg	g
45	725
+	47 800
93	525

Thus, the total weight is 93kg 525g.

4. To get the result, we add as follows:

m	cm
3	400
2	425
+	3 125
8	950

Thus, the Mohan buy 8kg 950g on three days.

Exercise 12.3

1. Subtract:

(a)

kg	g
6	475
–	4 238
2	237

(b)

kg	g
8	525
–	5 350
3	175

(c)

kg	g
9	650
–	7 475
2	175

(d)	<table border="0"> <tr><th>kg</th><th>g</th></tr> <tr><td>9</td><td>500</td></tr> <tr><td>– 6</td><td>395</td></tr> <tr><td colspan="2">3 195</td></tr> </table>	kg	g	9	500	– 6	395	3 195		(e)	<table border="0"> <tr><th>kg</th><th>g</th></tr> <tr><td>11</td><td>560</td></tr> <tr><td>– 9</td><td>070</td></tr> <tr><td colspan="2">2 490</td></tr> </table>	kg	g	11	560	– 9	070	2 490		(f)	<table border="0"> <tr><th>kg</th><th>g</th></tr> <tr><td>15</td><td>300</td></tr> <tr><td>– 6</td><td>750</td></tr> <tr><td colspan="2">8 550</td></tr> </table>	kg	g	15	300	– 6	750	8 550	
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(g)	<table border="0"> <tr><th>kg</th><th>g</th></tr> <tr><td>18</td><td>870</td></tr> <tr><td>– 12</td><td>980</td></tr> <tr><td colspan="2">5 890</td></tr> </table>	kg	g	18	870	– 12	980	5 890		(h)	<table border="0"> <tr><th>kg</th><th>g</th></tr> <tr><td>19</td><td>470</td></tr> <tr><td>– 16</td><td>590</td></tr> <tr><td colspan="2">2 880</td></tr> </table>	kg	g	19	470	– 16	590	2 880		(i)	<table border="0"> <tr><th>kg</th><th>g</th></tr> <tr><td>49</td><td>550</td></tr> <tr><td>– 38</td><td>675</td></tr> <tr><td colspan="2">10 875</td></tr> </table>	kg	g	49	550	– 38	675	10 875	
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10 875																													

2. Arrange the columns and find the sum:

Arrange kilograms and grams in respective columns and subtract columns.

(a)

kg	g
6	422
– 4	374
2 048	

Thus, the difference is 2kg 48g

(b)

kg	g
7	470
– 5	870
1 600	

(c)

kg	g
19	225
– 12	950
6 275	

Thus, the difference is 1kg 600g.

Thus, the difference is 6kg 275g

(d)

kg	g
7	570
– 4	675
2 895	

(e)

kg	g
13	550
– 8	670
4 880	

Thus, the difference is 2kg 895g.

Thus, the difference is 4kg 880g

(f)

kg	g
40	115
– 10	315
29 800	

Thus, the difference is 29kg 800g.

3. Arrange in columns and find the differences between:

Arrange kilograms and grams in respective columns and subtract columns.

(a)

	kg	g
	9	215
–	8	153
	1	062

(b)

	kg	g
	10	925
–	8	142
	2	783

Thus, the difference is 11kg 62g.

Thus, the difference is 2kg 783g.

(c)

	kg	g
	9	227
–	7	572
	1	655

(d)

	kg	g
	7	422
–	6	195
	1	227

Thus, the difference is 1kg 655g.

Thus, the difference is 1kg 227g.

(e)

	kg	g
	13	875
–	11	400
	2	475

(f)

	kg	g
	40	307
–	17	037
	23	270

Thus, the difference is 2kg 475g.

Thus, the difference is 23kg 270g

4. Ajeet's weight

= 35kg 400g

Ajeet's sister weight

= 29kg 235g

The difference of weight

= 35kg 400g – 29kg 235g

	kg	g
	35	400
–	29	235
	6	165

35kg 400g > 29kg 235g

∴ Arjun weight is greater

∴ Hence, Arjun is 6kg 165g heavier than his sister.

5. To get the result, we subtract as follows:

kg	g
12	530
- 8	655
3 875	

Thus, the 3kg 875g wheat left in the bag.

6. Weight of boy after three months = 10kg 60g
 Weight of boy before three months = 9kg 175g
 Weight gain by the boy = 10kg 60g - 9kg 175g

kg	g
10	60
- 9	175
885	

Thus, the weight gain by the boy is 885g.

Chapter 13 : Measurement - Length

Exercise 13.1

1. Convert into decimetres and fill in the boxes:

- (a) 9m = $9 \times 10\text{dm} = 80\text{dm}$ (b) 7m = $7 \times 10\text{dm} = 70\text{dm}$
 (c) 16m = $16 \times 10\text{dm} = 160\text{dm}$ (d) 22m = $22 \times 10\text{dm} = 220\text{dm}$
 (e) 49m = $49 \times 10\text{dm} = 490\text{dm}$ (f) 75m = $75 \times 10\text{dm} = 750\text{dm}$

2. Convert into decimetres and fill in the blanks:

- (a) 7 m 6 dm = $7 \times 10\text{ dm} + 6\text{ dm} = 70\text{ dm} + 6\text{ dm} = 76\text{ dm}$
 (b) 8 m 7 dm = $8 \times 10\text{ dm} + 7\text{ dm} = 80\text{ dm} + 7\text{ dm} = 87\text{ dm}$
 (c) 19 m 8 dm = $19 \times 10\text{ dm} + 8\text{ dm} = 190\text{ dm} + 8\text{ dm} = 198\text{ dm}$

3. Convert into centimetres and fill in the boxes:

- (a) 7 dm = 70 cm (b) 9 dm = 90 cm
 (c) 22 dm = 220 cm (d) 29 dm = 290 cm
 (e) 37 dm = 370 cm (f) 87 dm = 870 cm

4. Convert into centimetres and fill in the blanks:

- (a) 7cm 9 cm = $7 \times 10\text{ cm} + 9\text{ cm}$
 = $70\text{ cm} + 9\text{ cm} = 79\text{ cm}$

- (b) $19 \text{ dm } 9 \text{ cm} = 19 \times 10 \text{ cm} + 9 \text{ cm}$
 $= 190 \text{ cm} + 9 \text{ cm} = 199 \text{ cm}$
- (c) $39 \text{ dm } 7 \text{ cm} = 39 \times 10 \text{ cm} + 7 \text{ cm}$
 $= 390 \text{ cm} + 7 \text{ cm} = 397 \text{ cm}$

Exercise 13.2

1. Convert into centimetres and fill in the boxes:

- (a) $7 \text{ m} = 7 \times 100 \text{ cm} = 700 \text{ cm}$
 (b) $12 \text{ m} = 12 \times 100 \text{ cm} = 1200 \text{ cm}$
 (c) $21 \text{ m} = 21 \times 100 \text{ cm} = 2100 \text{ cm}$
 (d) $29 \text{ m} = 29 \times 100 \text{ cm} = 2900 \text{ cm}$
 (a) $58 \text{ m} = 58 \times 100 \text{ cm} = 5800 \text{ cm}$
 (b) $74 \text{ m} = 74 \times 100 \text{ cm} = 7400 \text{ cm}$

2. Convert into centimetres and fill in the blanks:

- (a) $7 \text{ m } 65 \text{ cm} = 7 \times 100 \text{ cm} + 65 \text{ cm} = 700 \text{ cm} + 65 \text{ cm}$
 $= 765 \text{ cm}$
 (b) $25 \text{ m } 90 \text{ cm} = 25 \times 100 \text{ cm} + 90 \text{ cm} = 2500 \text{ cm} + 90 \text{ cm}$
 $= 2590 \text{ cm}$
 (c) $47 \text{ m } 97 \text{ cm} = 47 \times 100 \text{ cm} + 97 \text{ cm} = 4700 \text{ cm} + 97 \text{ cm}$
 $= 4797 \text{ cm}$

3. Convert into metres and decimetres and fill in the blanks:

- (a) $76 \text{ dm} = 70 \text{ dm} + 6 \text{ dm} = 7 \text{ m } 6 \text{ dm}$
 (b) $89 \text{ dm} = 80 \text{ dm} + 9 \text{ dm} = 8 \text{ m } 9 \text{ dm}$
 (c) $235 \text{ dm} = 230 \text{ dm} + 5 \text{ dm} = 23 \text{ m } 5 \text{ dm}$
 (d) $439 \text{ dm} = 430 \text{ dm} + 9 \text{ dm} = 43 \text{ m } 9 \text{ dm}$

4. Convert into metres and centimetres and fill in the boxes:

- (a) $850 \text{ cm} = 800 \text{ cm} + 50 \text{ cm} = 8 \text{ m } 50 \text{ cm}$
 (b) $500 \text{ cm} = 500 \text{ cm} + 00 \text{ cm} = 5 \text{ m } 00 \text{ cm}$
 (c) $895 \text{ cm} = 800 \text{ cm} + 95 \text{ cm} = 8 \text{ m } 95 \text{ cm}$
 (d) $1956 \text{ cm} = 1300 \text{ cm} + 56 \text{ cm} = 13 \text{ m } 56 \text{ cm}$

Exercise 13.3

1. Add:

- | <p>(a)</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <thead> <tr> <th></th> <th>m</th> <th>cm</th> </tr> </thead> <tbody> <tr> <td></td> <td>28</td> <td>65</td> </tr> <tr> <td>+</td> <td>21</td> <td>30</td> </tr> <tr> <td></td> <td>49</td> <td>95</td> </tr> </tbody> </table> | | m | cm | | 28 | 65 | + | 21 | 30 | | 49 | 95 | <p>(b)</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <thead> <tr> <th></th> <th>m</th> <th>cm</th> </tr> </thead> <tbody> <tr> <td></td> <td>45</td> <td>79</td> </tr> <tr> <td>+</td> <td>32</td> <td>11</td> </tr> <tr> <td></td> <td>77</td> <td>90</td> </tr> </tbody> </table> <div style="text-align: center; margin-top: 10px;"> 127 </div> | | m | cm | | 45 | 79 | + | 32 | 11 | | 77 | 90 | <p>(c)</p> <table border="1" style="margin-left: auto; margin-right: auto; text-align: center;"> <thead> <tr> <th></th> <th>m</th> <th>cm</th> </tr> </thead> <tbody> <tr> <td></td> <td>18</td> <td>35</td> </tr> <tr> <td>+</td> <td>81</td> <td>30</td> </tr> <tr> <td></td> <td>99</td> <td>65</td> </tr> </tbody> </table> | | m | cm | | 18 | 35 | + | 81 | 30 | | 99 | 65 |
|---|----|----|----|--|----|----|---|----|----|--|----|----|---|--|---|----|--|----|----|---|----|----|--|----|----|---|--|---|----|--|----|----|---|----|----|--|----|----|
| | m | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 28 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | 21 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 49 | 95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 45 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | 32 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 77 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | m | cm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | 81 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 99 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

(d) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: center;">m</th><th style="text-align: center;">cm</th></tr> <tr><td style="text-align: center;">48</td><td style="text-align: center;">52</td></tr> <tr><td style="text-align: center;">+</td><td style="text-align: center;">21</td></tr> <tr><td style="text-align: center;">21</td><td style="text-align: center;">23</td></tr> <tr><td style="text-align: center;">69</td><td style="text-align: center;">75</td></tr> </table>	m	cm	48	52	+	21	21	23	69	75	(e) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: center;">m</th><th style="text-align: center;">cm</th></tr> <tr><td style="text-align: center;">47</td><td style="text-align: center;">67</td></tr> <tr><td style="text-align: center;">+</td><td style="text-align: center;">83</td></tr> <tr><td style="text-align: center;">83</td><td style="text-align: center;">48</td></tr> <tr><td style="text-align: center;">131</td><td style="text-align: center;">15</td></tr> </table>	m	cm	47	67	+	83	83	48	131	15	(f) <table border="0" style="margin-left: auto; margin-right: auto;"> <tr><th style="text-align: center;">m</th><th style="text-align: center;">cm</th></tr> <tr><td style="text-align: center;">87</td><td style="text-align: center;">80</td></tr> <tr><td style="text-align: center;">+</td><td style="text-align: center;">58</td></tr> <tr><td style="text-align: center;">58</td><td style="text-align: center;">74</td></tr> <tr><td style="text-align: center;">146</td><td style="text-align: center;">54</td></tr> </table>	m	cm	87	80	+	58	58	74	146	54
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m	cm																															
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+	5																															
5	85																															
+	12																															
12	75																															
31	90																															

2. Find the sum of :

- (a) Arrange the metres and centimetres in columns as shown in below:

$$\text{Add centimetres} = 22\text{cm} + 74\text{cm} = 96\text{cm}$$

$$\text{Add metres} = 54\text{m} + 35\text{m} = 89\text{m}$$

m	cm
54	22
+	35
35	74
89	96

Hence, the sum is 89m 96cm.

- (b) Arrange the metres and centimetres in columns as shown in below:

$$\text{Add centimetres} = 34\text{cm} + 25\text{cm} = 59\text{cm}$$

$$\text{Add metres} = 41\text{m} + 24\text{m} = 65\text{m}$$

m	cm
41	34
+	24
24	25
65	59

Hence, the sum is 65m 59cm.

- (c) Arrange the metres and centimetres in columns as shown in below:

$$\text{Add centimetres} = 74\text{cm} + 88\text{cm} = 162\text{cm}$$

$$= 100\text{cm} + 62\text{cm} = 1\text{m} + 62\text{cm}$$

$$\text{Add metres} = 48\text{m} + 37\text{m} + 1\text{m} = 86\text{m}$$

m	cm
48	74
+	37
37	88
86	62

Hence, the sum is 86m 62cm.

- (d) Arrange the metres and centimetres in columns as shown in below:

$$\text{Add centimetres} = 84\text{cm} + 76\text{cm} = 160\text{cm}$$

$$= 100\text{cm} + 60\text{cm}$$

$$= 1\text{m} + 60\text{m}$$

$$\text{Add metres} = 54\text{m} + 29\text{m} + 1\text{m} = 84\text{m}$$

Hence, the sum is 84m 60cm.

	m	cm
	54	84
+	29	76
	84	60

3. To get the result, we add as follows:

	m	cm
	15	45
+	13	75
	29	20

Thus, he sold 29m 20cm cloth.

4. To get the result, we add as follows:

	m	cm
	5	95
+	3	88
	9	83

Thus, the Archana bought 9m 83cm cloth.

Exercise 13.4

1. Subtract:

(a)

	m	cm
	37	90
-	15	40
	22	50

(b)

	m	cm
	68	94
-	53	67
	15	27

(c)

	m	cm
	95	12
-	74	09
	21	3

(d)

	m	cm
	79	54
-	62	37
	17	17

(e)

	m	cm
	35	47
-	25	59
	9	88

(f)

	m	cm
	88	96
-	54	69
	34	27

(g)

m	cm
74	76
– 39	89
34	87

(h)

m	cm
96	45
– 64	79
31	66

(i)

m	cm
67	34
– 9	85
57	58

2. Subtract:

- (a) Arrange metres and centimetres in columns as shown below:

Subtracting centimetres : $80\text{cm} - 60\text{cm} = 20\text{cm}$

Subtracting metres : $69\text{m} - 28\text{m} = 41\text{m}$

Hence, the difference is 41m 20cm.

m	cm
69	80
– 28	60
41	20

- (b) Arrange metres and centimetres in columns as shown below:

Subtracting centimetres : $64\text{cm} - 48\text{cm} = 16\text{cm}$

Subtracting metres : $95\text{m} - 89\text{m} = 6\text{m}$

Hence, the difference is 6m 16cm.

m	cm
95	64
– 89	48
6	16

- (c) Arrange metres and centimetres in columns as shown below:

Subtracting centimetres : $88\text{cm} - 75\text{cm} = 13\text{cm}$

Subtracting metres : $64\text{m} - 32\text{m} = 32\text{m}$

Hence, the difference is 32m 13cm.

m	cm
64	88
– 32	75
32	13

- (d) Arrange metres and centimetres in columns as shown below:

Subtracting centimetres : We can not subtract 49cm from 37cm.

So, we borrow 1m from 80m leaving behind 79m.

Now, we have $1\text{m} + 37\text{cm} = 100\text{cm} + 37\text{cm} = 137\text{cm}$

Now, $137\text{cm} - 49\text{cm} = 88\text{cm}$

Subtracting metres : $79\text{m} - 61\text{m} = 18\text{m}$

Hence, the difference is 18m 88cm.

m	cm
80	37
– 61	49
18	88

3. To get the result, we subtract as follows:

	m	cm
	42	132
	43	32
-	21	65
	21	67

Thus, 21m 67cm cloth left.

4. To get the result, we subtract as follow:

	m	cm
	66	130
	67	30
-	35	55
	31	75

Thus, the Sujata left 31m 75cm ribbon.

5. To get the result, we subtract as follows:

	m	cm
	76	15
-	38	05
	38	10

Hence, 38m 10cm electric wire is left.

6. To get the result, we subtract 18m 68cm from 39 m as follows:

	m	cm
	38	100
	39	00
-	18	68
	20	32

Thus, the 18m 68cm is less 20m 32cm.

Chapter 14 : Money

Exercise 14.1

1. Write the following amounts of money in words:

- (a) Rupees ninety-seven and fifteen paise.
- (b) Rupees thirty-nine and twenty-five paise.
- (c) Rupees seventy-eight and five paise.
- (d) Rupees forty-five and thirty-five paise.
- (e) Five paise.
- (f) Rupees seventy six.
- (g) Rupees thirty-five and forty paise.
- (h) Rupees seventy five and eighty paise.

2. Write the following amounts of money in words:

- (a) Rupees fifty-seven and ninety paise.
- (b) Rupees eighty-eight and forty five paise.
- (c) Rupees eighteen and five paise.
- (d) Rupees thirty-nine and forty paise.
- (e) Rupees ninety-seven and seventy five paise.
- (f) Rupees eighty-five
- (g) Rupees twenty-three
- (h) Sixty-four paise.
- (i) Rupees seventy-five.

3. Write the following amounts of money in figures:

- (a) ₹13.75 (b) ₹18.65 (c) ₹79.30 (d) ₹45.20
- (e) ₹35.40 (f) ₹80.40

Exercise 14.2

1. Convert each of the following into paise:

- (a) ₹13 = 13×100 paise = 1300 paise [∵ ₹1 = 100 paise]
- (b) ₹18 = 18×100 paise = 1800 paise
- (c) ₹69 = 69×100 paise = 6900 paise
- (d) ₹49 = 49×100 paise = 4900 paise

(e) ₹37 = 37×100 paise = 3700 paise

(f) ₹68 = 68×100 paise = 6800 paise

(g) ₹75 = 75×100 paise = 7500 paise

(h) ₹96 = 96×100 paise = 9600 paise

(i) ₹9 = 9×100 paise = 900 paise

2. Convert each of the following into paise:

(a) Rupees 32 60 paise = 32×100 paise + 60 paise
= 3200 paise + 60 paise
= 3260 paise

(b) Rupees 54 8 paise = 54×100 paise + 8 paise
= 5400 paise + 8 paise
= 5408 paise

(c) Rupees 78 65 paise = 78×100 paise + 65 paise
= 7800 paise + 65 paise
= 7865 paise

(d) Rupees 37 85 paise = 37×100 paise + 85 paise
= 3700 paise + 85 paise
= 3785 paise

(e) Rupees 21 30 paise = 21×100 paise + 30 paise
= 2100 paise + 30 paise
= 2130 paise

(f) Rupees 5 35 paise = 5×100 paise + 35 paise
= 500 paise + 35 paise
= 535 paise

(g) Rupees 80 29 paise = 80×100 paise + 29 paise
= 8000 paise + 29 paise
= 8029 paise

(h) Rupees 8 95 paise = 8×100 paise + 95 paise
= 800 paise + 95 paise
= 895 paise

(i) Rupees 7 45 paise = 7×100 paise + 45 paise
= 700 paise + 45 paise
= 745 paise

3. Convert each of the following into paise:

- (a) ₹9.05 = ₹9 + 5 paise
 = 9×100 paise + 5 paise
 = 900 paise + 5 paise = 905 paise
- (b) ₹29.25 = ₹29 + 25 paise
 = 29×100 paise + 25 paise
 = 2900 paise + 25 paise = 2925 paise
- (c) ₹41.80 = ₹41 + 80 paise
 = 41×100 paise + 80 paise
 = 4100 paise + 80 paise = 4180 paise
- (d) ₹99.15 = ₹99 + 15 paise
 = 99×100 paise + 15 paise
 = 9900 paise + 15 paise = 9915 paise
- (e) ₹0.70 = 0.70×100 paise
 = 70 paise
- (f) ₹0.05 = 0.05×100 paise
 = 5 paise
- (g) ₹37.45 = ₹37 + 45 paise
 = 37×100 paise + 45 paise
 = 3700 paise + 45 paise = 3745 paise
- (h) ₹59.40 = ₹59 + 40 paise
 = 59×100 paise + 40 paise
 = 5900 paise + 40 paise = 5940 paise

4. Convert each of the following into rupees and paise:

- (a) 395 paise = 300 paise + 95 paise
 = ₹3 + 95 paise
 = Rupees three and ninety five paise
- (b) 970 paise = 900 paise + 70 paise
 = ₹9 + 70 paise
 = Rupees nine and seventy paise
- (c) 1005 paise = 1000 paise + 5 paise
 = ₹10 + 5 paise
 = Rupees ten and five paise

- (d) 2080 paise = 2000 paise + 80 paise
 = ₹20 + 80 paise
 = Rupees twenty and eighty paise
- (e) 5960 paise = 5900 paise + 60 paise
 = ₹59 + 60 paise
 = Rupees fifty nine and sixty paise
- (f) 8195 paise = 8100 paise + 95 paise
 = ₹81 + 95 paise
 = Rupees eighty one and ninety five paise
- (g) 5725 paise = 5700 paise + 25 paise
 = ₹57 + 25 paise
 = Rupees fifty seven and twenty five paise
- (h) 2505 paise = 2500 paise + 05 paise
 = ₹25 + 05 paise
 = Rupees twenty five and five paise

5. Express each of the following into rupees and paise by using dot (.):

- (a) 586 paise = 500 paise + 86 paise
 = ₹5 + 86 paise = ₹5.86
- (b) 597 paise = 500 paise + 97 paise
 = ₹5 + 97 paise = ₹5.97
- (c) 5060 paise = 5000 paise + 60 paise
 = ₹50 + 60 paise = ₹50.60
- (d) 9021 paise = 9000 paise + 21 paise
 = ₹90 + 21 paise = ₹90.21
- (e) 9039 paise = 9000 paise + 39 paise
 = ₹90 + 39 paise = ₹90.39
- (f) 4075 paise = 4000 paise + 75 paise
 = ₹40 + 75 paise = ₹40.75
- (g) 8680 paise = 8600 paise + 80 paise
 = ₹86 + 80 paise = ₹86.80
- (h) 5025 paise = 5000 paise + 25 paise
 = ₹50 + 25 paise = ₹50.25

Exercise 14.3

1. Add:

(a)

₹ 35.40

+ ₹ 37.50

₹ 72.90

(b)

₹ 27.50

+ ₹ 52.05

₹ 79.55

(c)

₹ 29.60

+ ₹ 45.30

₹ 74.90

(d)

₹ 26.00

+ ₹ 37.50

₹ 32.40

₹ 95.90

(e)

₹ 32.50

+ ₹ 27.69

₹ 50.30

₹ 110.49

2. Find the sum:

(a)

₹ p

207 35

+ 120 30

+ 45 10

₹ 372.75

(b)

₹ p

46 52

+ 67 50

+ 32 30

₹ 146.32

(c)

₹ p

671 00

+ 78 50

+ 90 40

₹ 839.90

(d)

₹ p

50 46

+ 25 44

+ 32 15

₹ 113.05

(e)

₹ p

75 90

+ 32 40

+ 103 80

₹ 212.10

(f)

₹ p

135 75

+ 80 50

+ 75 40

₹ 291.50

3. Arrange in columns and find the sum of:

(a)

₹ 114.45

+ ₹ 76.33

+ ₹ 8.75

₹ 191.53

(b)

₹ 29.40

+ ₹ 21.75

+ ₹ 40.35

₹ 91.50

(c)

₹ 45.30

+ ₹ 30.05

+ ₹ 1.55

₹ 76.90

(d)

₹ 0.95

+ ₹ 20.15

+ ₹ 45.56

₹ 66.66

(e)

₹ 17.35

+ ₹ 28.85

+ ₹ 0.85

₹ 47.05

(f)

₹ 45.40

+ ₹ 57.80

+ ₹ 38.30

₹ 141.50

4. Add:

$$\begin{array}{r} \text{(a)} \quad ₹ 115.65 \\ + ₹ 35.30 \\ + ₹ 0.75 \\ \hline ₹ 151.70 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad ₹ 225.45 \\ + ₹ 325.30 \\ + ₹ 22.00 \\ \hline ₹ 572.75 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad ₹ 345.05 \\ + ₹ 45.34 \\ + ₹ 30.75 \\ \hline ₹ 421.14 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad ₹ 185.25 \\ + ₹ 80.35 \\ + ₹ 3.75 \\ \hline ₹ 269.35 \end{array}$$

$$\begin{array}{r} \text{(e)} \quad ₹ 75.00 \\ + ₹ 32.95 \\ + ₹ 170.05 \\ \hline ₹ 278.00 \end{array}$$

$$\begin{array}{r} \text{(f)} \quad ₹ 321.80 \\ + ₹ 412.75 \\ + ₹ 485.75 \\ \hline ₹ 1220.30 \end{array}$$

Exercise 14.4

$$\begin{array}{rcl} 1. \text{ Cost of a toy} & = & ₹ 75.50 \\ \text{Cost of a bat} & = & ₹ 104.00 \\ \text{Cost of a ball} & = + & ₹ 37.75 \\ & & \hline & & ₹ 217.25 \end{array}$$

Hence, Mohit spent ₹217.25.

$$\begin{array}{rcl} 2. \text{ Swati got her mother} & = & ₹ 500.50 \\ \text{Swati's sister got her mother} & = & ₹ 175.50 \\ \text{Swati's brother got her mother} & = + & ₹ 95.00 \\ & & \hline & & ₹ 770.50 \end{array}$$

Hence, she got altogether ₹770.50.

$$\begin{array}{rcl} 3. \text{ Priya purchased a ball} & = & ₹ 65.75 \\ \text{Priya purchased a bat} & = & ₹ 85.65 \\ \text{Priya purchased a cap} & = + & ₹ 55.30 \\ & & \hline & & ₹ 206.70 \end{array}$$

Hence, Priya spent ₹206.70.

$$\begin{array}{rcl} 4. \text{ Reena bought 1 kg paneer} & = & ₹ 54.30 \\ \text{Reena bought 1 kg sweets} & = & ₹ 85.60 \\ \text{Reena bought 2 kg milk} & = + & ₹ 45.00 \\ & & \hline & & ₹ 184.90 \end{array}$$

Hence, Reena spent ₹184.90.

5. Mohan spent for railway fare = ₹90 . 50

Mohan spent for bus fare = ₹22 . 75

Mohan spent for ricksaw fare = + ₹17 . 50

₹130 . 75

Hence, Mohan spent ₹130.75.

6. Priyanka collect the one person = ₹75 . 50

Priyanka collect the second person = ₹72 . 40

Priyanka collect the third person = + ₹65 . 30

₹213 . 20

Hence, Priyanka collect ₹213.20.

Exercise 14.5

1. Subtract:

(a)
$$\begin{array}{r} \text{₹ p} \\ 79 \ 53 \\ - 56 \ 27 \\ \hline \text{₹ } 23 . 26 \end{array}$$

(b)
$$\begin{array}{r} \text{₹ p} \\ 45 \ 55 \\ - 29 \ 65 \\ \hline \text{₹ } 15 . 90 \end{array}$$

(c)
$$\begin{array}{r} \text{₹ p} \\ 87 \ 30 \\ - 59 \ 65 \\ \hline \text{₹ } 27 . 65 \end{array}$$

(d)
$$\begin{array}{r} \text{₹ p} \\ 90 \ 35 \\ - 67 \ 52 \\ \hline \text{₹ } 22 . 83 \end{array}$$

(e)
$$\begin{array}{r} \text{₹ p} \\ 94 \ 30 \\ - 53 \ 80 \\ \hline \text{₹ } 40 . 50 \end{array}$$

(f)
$$\begin{array}{r} \text{₹ p} \\ 56 \ 75 \\ - 32 \ 90 \\ \hline \text{₹ } 23 . 85 \end{array}$$

(g)
$$\begin{array}{r} \text{₹ p} \\ 87 \ 75 \\ - 52 \ 60 \\ \hline \text{₹ } 35 . 15 \end{array}$$

(h)
$$\begin{array}{r} \text{₹ p} \\ 96 \ 95 \\ - 67 \ 80 \\ \hline \text{₹ } 29 . 15 \end{array}$$

2. Subtract the following amounts:

(a)
$$\begin{array}{r} \text{₹ } 89 . 20 \\ - \text{₹ } 56 . 86 \\ \hline \text{₹ } 32 . 34 \end{array}$$

(b)
$$\begin{array}{r} \text{₹ } 76 . 05 \\ - \text{₹ } 49 . 30 \\ \hline \text{₹ } 26 . 75 \end{array}$$

(c)
$$\begin{array}{r} \text{₹ } 67 . 25 \\ - \text{₹ } 81 . 10 \\ \hline \text{₹ } 13 . 85 \end{array}$$

(d)
$$\begin{array}{r} \text{₹ } 61 . 05 \\ - \text{₹ } 52 . 05 \\ \hline \text{₹ } 9 . 00 \end{array}$$

3. Find the difference:

(a)
$$\begin{array}{r} \text{₹ } 69 . 90 \\ - \text{₹ } 25 . 75 \\ \hline \text{₹ } 44 . 15 \end{array}$$

(b)
$$\begin{array}{r} \text{₹ } 75 . 85 \\ - \text{₹ } 50 . 25 \\ \hline \text{₹ } 25 . 60 \end{array}$$

(c)
$$\begin{array}{r} \text{₹ } 92 . 90 \\ - \text{₹ } 71 . 42 \\ \hline \text{₹ } 21 . 50 \end{array}$$

(d) $\begin{array}{r} ₹ 29.65 \\ - ₹ 15.40 \\ \hline ₹ 14.25 \end{array}$	(e) $\begin{array}{r} ₹ 98.65 \\ - ₹ 65.30 \\ \hline ₹ 33.35 \end{array}$	(f) $\begin{array}{r} ₹ 47.80 \\ - ₹ 40.45 \\ \hline ₹ 7.35 \end{array}$
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4. Subtract the following amounts by converting them into paise:

- (a) Rupees 30 and 40 paise = ₹30 + 40 paise
 = 300 paise + 40 paise
 = 3040 paise
- Rupees 45 and 14 paise = ₹45 + 14 paise
 = 4500 paise + 14 paise
 = 4514 paise
- Now, 4514 paise – 3040 paise = 1474 paise
- (b) Rupees 45 and 80 paise = ₹45 + 80 paise
 = 4500 paise + 80 paise
 = 4580 paise
- Rupees 70 and 60 paise = ₹70 + 60 paise
 = 7000 paise + 60 paise
 = 7060 paise
- Now, 7060 paise – 4580 paise = 2480 paise
- (c) Rupees 85 and 10 paise = ₹85 + 10 paise
 = 8500 paise + 10 paise
 = 8510 paise
- Rupees 90 and 15 paise = ₹90 + 15 paise
 = 9000 paise + 15 paise
 = 9015 paise
- Now, 9015 paise – 8510 paise = 505 paise
- (d) Rupees 76 and 35 paise = ₹76 + 35 paise
 = 7600 paise + 35 paise
 = 7635 paise
- Rupees 91 and 20 paise = ₹91 + 20 paise
 = 9100 paise + 20 paise
 = 9120 paise
- Now, 9120 paise – 7635 paise = 1485 paise

Exercise 14.6

1. At first, we find the total cost of the items purchased by Suraj

$$\begin{array}{r} ₹ 67.75 \\ ₹ 22.50 \\ + ₹ 122.50 \\ \hline \text{Total cost } ₹ 212.75 \end{array}$$

Now, we subtract total cost to find the balance

$$\begin{array}{r} ₹ \quad p \\ 250.00 \\ - 212.75 \\ \hline ₹ 37.25 \end{array}$$

Hence, ₹37.25 left.

2. At first, we find the total cost of the items purchased by Swati.

$$\begin{array}{r} ₹ 42.50 \\ ₹ 27.95 \\ + ₹ 15.75 \\ \hline \text{Total cost } ₹ 86.20 \end{array}$$

Now, we subtract total cost to find the balance

$$\begin{array}{r} ₹ \quad p \\ 100.00 \\ - 86.20 \\ \hline ₹ 13.80 \end{array}$$

Hence, ₹13.80 book seller return.

3. Rakhi had the money in her bank account = ₹375.50
Rakhi withdraws the money in her account = ₹235.00
Balance in Rakhi account = ₹375.50 – ₹235.00
= ₹140.50
4. The sum of ₹105.25 and ₹69.75

$$\begin{array}{r} ₹ 105.25 \\ + ₹ 69.75 \\ \hline ₹ 175.00 \end{array}$$

Now, we subtract ₹175.00 from ₹200.00

$$\begin{array}{r} \text{₹} \quad \text{p} \\ 200 . 00 \\ - 175 . 00 \\ \hline \text{₹ } 25 . 00 \end{array}$$

5. Raju had rupees = ₹100
Raju bought a purse = ₹87.50
Balance money of Raju = ₹100 – ₹87.50
= ₹12.50

Hence, Raju get the balance ₹12.50.

$$\begin{array}{r} \text{₹} \quad \text{p} \\ 100 . 00 \\ - 87 . 50 \\ \hline \text{₹ } 12 . 50 \end{array}$$