DETAILED SOLUTIONS

CHAPTER 1 : NUMBERS UP TO 999

Get Ready

1. 86 – Eighty-six.
2. There are 6 balls in one over.
   Number of balls in 10 overs = 10 × 6 = 60 balls
   Therefore, team B has to achieve the target of 87 runs in 60 balls.
3. 87 is just after 86 or 87 is the successor of 86.

Life Skills

Service	Contact No.
Fire	101
Ambulance	102
Management Disaster	108
Traffic Police	191
Indian Railway Security helpline	182

101 : One hundred one
102 : One hundred two
108 : One hundred eight
191 : One hundred ninety-one
182 : One hundred eighty-two

Practice Time 1A

1. (a) 154: one hundred fifty-four
   (b) 146: one hundred forty-six
   (c) 170: one hundred seventy
2. (a) 189: one hundred eighty-nine
   (b) 152: one hundred fifty-two
   (c) 166: one hundred sixty-six
   (d) 132: one hundred thirty-two
   (e) 145: one hundred forty-five
   (f) 198: one hundred ninety-eight
3. (a) 167   (b) 126   (c) 152
   (d) 175   (e) 103   (f) 114
4. 118; 104; 194; 123; 181
5. 136; 110; 174; 167; 121
6. 168; 199; 116;161; 127; 176

Practice Time 1B

1. (a) 3 hundreds + 3 tens + 7 ones = 300 + 30 + 7 = 337
      337 is read as: Three hundred thirty-seven
   (b) 8 hundreds + 5 tens + 8 ones = 800 + 50 + 8 = 858
   858 is read as: Eight hundred fifty-eight

2. Do it yourself
3. (a) Two hundred forty-five: 245
   (b) Three hundred nine: 309
   (c) Six hundred fifty-nine: 659
   (d) Two hundred four: 204
   (e) Eight hundred fifty-five: 855
   (f) Four hundred twelve: 412
   (g) Five hundred thirty-six: 536
   (h) Nine hundred eighty-one: 981
4. (a) 381: Three hundred eighty-one
   (b) 457: Four hundred fifty-seven
   (c) 789: Seven hundred eighty-nine
   (d) 534: Five hundred thirty-four
   (e) 888: Eight hundred eighty-eight
   (f) 999: Nine hundred ninety-nine
   (g) 504: Five hundred four
   (h) 716: Seven hundred sixteen
5. (a) <u>367</u>   368   (b) <u>538</u>   539   (c) <u>571</u>   572
   (d) <u>623</u>   624   (e) <u>240</u>   241   (f) <u>794</u>   795
6. (a) 284   <u>285</u>   (b) 348   <u>349</u>   (c) 639   <u>640</u>
   (d) 697   <u>698</u>   (e) 712   <u>713</u>   (f) 888   <u>889</u>
7. (a) 616   <u>617</u>   618   (b) 549   <u>550</u>   551
   (c) 711   <u>712</u>   713   (d) 491   <u>492</u>   493
   (e) 799   <u>800</u>   801   (f) 871   <u>872</u>   873

Practice Time 1C

1. (a) 243   (b) 650
   (c) 706   (d) 895

2. (a)

194

   (b)

371

(c)

490

(d)

798
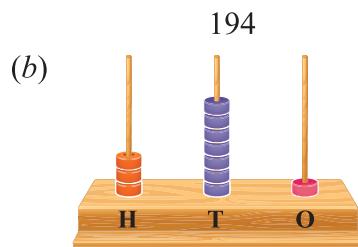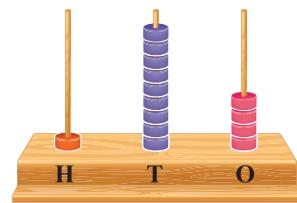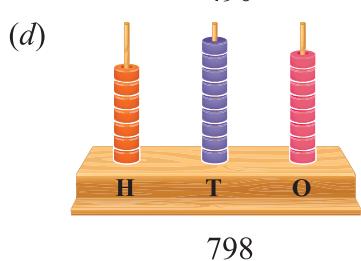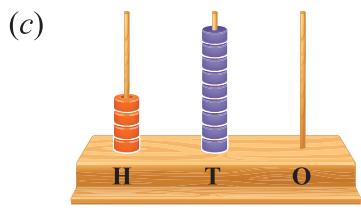
Think and Answers (Page 17)

1. Number of buttons in 1 packet of 100 buttons:
   1 hundred = $1 \times 100 = 100$
   Number of buttons in 5 packets of 10 buttons:
   5 tens = $5 \times 10 = 50$
   Number of buttons in 4 loose buttons:
   4 ones = $4 \times 1 = 4$
   Total number of buttons = $100 + 50 + 4 = 154$
   In words: One hundred fifty-four.
2. Number of shirts in 10 packets of 10 shirts:
   10 tens = 1 hundred = 100
   Number of jeans in 6 packets of 10 jeans:
   6 tens = $6 \times 10 = 60$
   Number of clothes = $100 + 60 = 160$
   Therefore, they brought 160 clothes in all.

Practice Time 1D

1. (a) Place value = 60   (b) Place value = 800
   (c) Place value = 4

2.

	Number	Digit	Place Value	Face Value
(a)	215	2	200	2
		1	10	1
		5	5	5
(b)	709	7	700	7
		0	0	0
		9	9	9

3. (a) 9 4 7
   └─ 7
   └─ 40
   └─ 900
   (b) 7 2 7
   └─ 7
   └─ 20
   └─ 700

(c) 5 0 3
   └─ 3
   └─ 0
   └─ 500
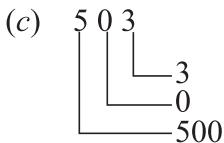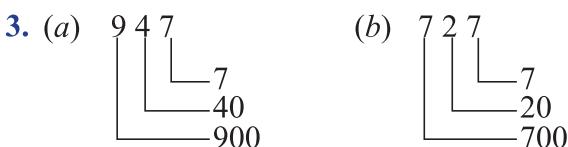
4. (a) $142 = 1$ hundred $+ 4$ tens $+ 2$ ones $= 100 + 40 + 2$
   (b) $227 = 2$ hundreds $+ 2$ tens $+ 7$ ones $= 200 + 20 + 7$
   (c) $945 = 9$ hundreds $+ 4$ tens $+ 5$ ones $= 900 + 40 + 5$
   (d) $480 = 4$ hundreds $+ 8$ tens $+ 0$ ones $= 400 + 80 + 0$
5. (a) $700 + 50 + 9 = 759$ (b) $200 + 30 + 1 = 231$
   (c) $300 + 30 + 3 = 333$
6. (a) 2 hundreds + 3 tens + 0 ones = 230
   (b) 4 hundreds + 6 tens + 5 ones = 465
   (c) 5 hundreds + 0 tens + 7 ones = 507
   (d) 7 hundreds + 2 tens + 9 ones = 729

Practice Time 1E

1. (a) $603 < 615$ (b) $123 > 61$
   (c) $41 < 313$ (d) $605 > 405$
   (e) $720 = 720$ (f) $914 = 914$
   (g) $726 > 626$ (h) $524 < 534$
2. 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211
3. 8; 992, 993, 994, 995, 996, 997, 998, 999
4. (a) 301, 312, ⓐ734   (b) 269, ⓐ612, 420
   (c) 317, 402, ⓐ499
5. (a) 341, 356, ⓐ313   (b) 643, 352, ⓐ256
   (c) 416, ⓐ148, 342

Practice Time 1F

1. (a) 75, 87, 120, 163, 266
   (b) 45, 142, 182, 215, 276
   (c) 110, 112, 180, 243, 271
   (d) 113, 119, 145, 172, 190
   (e) 146, 201, 259, 263, 297
2. (a) 272, 230, 211, 98, 47
   (b) 239, 218, 205, 152, 44
   (c) 298, 280, 260, 245, 241
   (d) 265, 200, 195, 183, 141
   (e) 298, 250, 241, 187, 136
3. **Ascending order:** 567, 576, 657, 675, 756, 765
   Descending order: 765, 756, 675, 657, 576, 567

4.

	Predecessor (Number – 1)	Number	Successor (Number + 1)
(a)	104	105	106
(b)	749	750	751
(c)	890	891	892
(d)	844	845	846
(e)	622	623	624

Detailed Solutions

5.

Number	Predecessor	Successor
Greatest = 910	909	911
Smallest = 109	108	110

Practice Time 1G

1. (a) 11 pencils; odd   (b) 10 toffees; even
    (c) 12 flowers; even   (d) 9 apples; odd

2.

11	⑫	13	⑭	15	⑯	17	⑱	19	⑳
21	㉒	23	㉔	25	㉖	27	㉘	29	㉚

3.

26	㉗	28	㉙	30	㉛	32	㉝	34	㉟
36	㊲	38	㊳	40	㊶	42	㊸	44	㊺

4. (a) 32, 34, 36, 38   (b) 62, 64, 66, 68, 70, 72
5. (a) 51, 53, 55, 57, 59   (b) 81, 83, 85, 87, 89

Practice Time 1H

1. (a) Irfan is at the <u>seventh</u> place.
  (b) Bunty is at the <u>fourth</u> place.
  (c) Tia is at the <u>ninth</u> place.
  (d) Raman is at the <u>first</u> place.
  (e) <u>Ria</u> is at second place.
  (f) <u>Bindia</u> is at the fifth place.
  (g) <u>Akhil</u> is at the sixth place.
  (h) <u>Tony</u> is at the tenth place.
  (i) <u>Sunny</u> is at the third place.
  (j) <u>Rohit</u> is at the eighth place.

2. (a) C is the 10th letter in MATHEMATICS.
  (b) R is the 5th letter in HUNDRED.
  (c) A is the 6th letter in FOOTBALL.
  (d) L is the 3rd letter in DELHI.

3. (a) Green colur dice; 2nd, 7th, 13th, 17th
  (b) Blue colour dice; 5th, 9th, 11th, 16th
  (c) 6th ⇒ Red, 12th ⇒ Purple, 15th ⇒ Red, 18th ⇒ Black.

Mental Maths (Page 30)

1. (a) 98 is the greatest 2-digit even number.
  (b) 11 is the smallest 2-digit odd number.
  (c) 101 is the smallest 3-digit odd number.
  (d) 888 is the greatest 3-digit even number whose each digit is the same.

2. (a) Store 3   (b) Store 2

Chapter Assessment

1. (b) $100 + 40 + 5 = 145$
2. (c) Place value of 8 is 80 in 680
3. (a) The greatest 3-digit number formed with different digit is 987
4. (a) 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279
  (b) 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368
5. (a) 747, 748, 749   (b) 688, 689, 690
6. (a) $371 = 300 + 70 + 1$ (b) $719 = 700 + 10 + 9$
  (c) $538 = 500 + 30 + 8$
7. (a) $100 + 50 + 7 = 157$
  (b) 9 tens + 9 ones = $90 + 9 = 99$
  (c) $60 + 5 = 65$
  (d) 2 hundreds + 5 tens = $200 + 50 = 250$

8.

	Ascending order	Descending order
(a)	118, 132, 140, 172	172, 140, 132, 118
(b)	128, 153, 164, 174	174, 164, 153, 128
(c)	213, 217, 222, 240	240, 222, 217, 213
(d)	148, 238, 284, 298	298, 284, 238, 148

9. Do yourself.

Brain Sizzlers (Page 32)

Mystery number 1 = 999; Mystery number 2 = 978

CHAPTER 2 : ADDITION

Get Ready

  Total number of apples and oranges = 38

Think and Answer (Page 35)

  $6 + 8 = 14$ (∵ Potato = 6; Tomato = 8)

Maths Fun (Page 37)

  Team A's score: Nobita (7) + Gian (5) + Dorami (5) + Dekisugi (7) = 24
  Team B's score: Doraemon (6) + Shizuka (2) + Jaiko (6) + Suneo (8) = 22
  ∵   24 > 22
  Team A is the winner.

Practice Time 2A

1. (a) $32 + 0 = 32$ (b) $48 + 0 = 48$
  (c) $64 + 1 = 65$

2. (*a*) $22 + 13 = 35$

(*b*) $18 + 16 = 34$

3. (*b*)

T	O
6	4
+ 1	5
7	9

(*c*)

T	O
5	2
+ 3	3
8	5

(*d*)

T	O
2	6
+ 4	0
6	6

Practice Time 2B

1.

T	O
1	1
1	4
+ 3	2
5	7

2.

T	O
6	7
2	0
+ 1	2
9	9

3.

T	O
2	2
2	0
+ 2	6
6	8

4.

T	O
1	5
5	1
+ 1	2
7	8

5.

T	O
5	4
1	2
+ 1	1
7	7

6.

T	O
4	1
2	0
+ 2	6
8	7

7.

T	O
2	4
3	2
+ 1	3
6	9

8.

T	O
6	4
1	2
+ 1	3
8	9

Practice Time 2C

1. (*a*) 44 ones = 4 tens + 4 ones

(*b*) 57 ones = 5 tens + 7 ones

(*c*) 70 ones = 7 tens + 0 ones

(*d*) 81 ones = 8 tens + 1 one

2. (*a*) 5 tens + 16 ones = 5 tens + 10 ones + 6 ones

= 5 tens + 1 ten + 6 ones

= 6 tens + 6 ones

(*b*) 4 tens + 25 ones = 4 tens + 20 ones + 5 ones

= 4 tens + 2 tens + 5 ones

= 6 tens + 5 ones

(*c*) 7 tens + 27 ones = 7 tens + 20 ones + 7 ones

= 7 tens + 2 tens + 7 ones

= 9 tens + 7 ones

(*d*) 4 tens + 35 ones = 4 tens + 30 ones + 5 ones

= 4 tens + 3 tens + 5 ones

= 7 tens + 5 ones

(*e*) 1 ten + 55 ones = 1 ten + 50 ones + 5 ones

= 1 ten + 5 tens + 5 ones

= 6 tens + 5 ones

Practice Time 2D

1. (*a*)

T	O
①	
2	1
+	9
3	0

(*b*)

T	O
①	
1	3
+	7
2	0

(*c*)

T	O
①	
3	4
+	6
4	0

(*d*)

T	O
①	
1	2
+ 5	8
7	0

Detailed Solutions

2. (a)

T	O
①	
1	8
+ 5	2
7	0

(b)

T	O
①	
3	2
+ 4	8
8	0

(c)

T	O
①	
2	6
+ 6	4
9	0

(d)

T	O
①	
4	9
+ 3	1
8	0

Think and Answer (Page 43)

1.

2.

3.

Practice Time 2E

1. (a)

T	O
①	
2	8
+	5
3	3

(b)

T	O
①	
	6
+ 4	8
5	4

(c)

T	O
①	
	7
+ 3	5
4	2

(d)

T	O
①	
1	9
+	7
2	6

(e)

T	O
①	
2	2
+ 3	9
6	1

(f)

T	O
①	
6	4
+ 1	9
8	3

(g)

T	O
①	
5	5
+ 3	6
9	1

(h)

T	O
①	
6	8
+ 2	8
9	6

2. (a)

T	O
①	
3	9
+	8
4	7

(b)

T	O
①	
5	4
+	7
6	1

(c)

T	O
①	
4	6
+ 2	5
7	1

(d)

T	O
①	
6	3
+ 1	9
8	2

Think and Answer (Page 45)

1.

2.

3.

Practice Time 2F

1. *(a)*

T	O
	⑥
	3
+	④
1	3

(b)

T	O
	4
	⑤
+	⑤
1	4

(c)

T	O
	⑨
	5
+	①
1	5

(d)

T	O
	③
	5
+	⑦
1	5

2. *(a)*

T	O
①	
	4
	2
+	7
1	3

Check

T	O
①	
	2
	4
+	7
1	3

(b)

T	O
①	
	6
	3
+	8
1	7

Check

T	O
①	
	3
	6
+	8
1	7

3. *(a)*

T	O
	4
	3	+ ►8►
+	4

T	O
①	
	4
	3 8 + 3 = 11
+	4
1	1

Thus, 4 + 3 + 4 = 11

Practice Time 2G

(b)

T	O
①	
	5
	7 10 + 7 = 17
+	5
1	7

T	O
	5
	5	+ ►10►
+	7

(c)

T	O
①	8
	3
+	3
1	4

(d)

T	O
	6
	3
+	6
1	5

(Same as above part *(a)* and *(b)*)

1.

T	O
①	6
1	2
+	8
2	6

Checking

T	O
①	
	8
1	2
+	6
2	6

Same

The answer is correct.

2.

T	O
①	
1	7
	3
+ 1	4
3	4

Checking

T	O
①	
1	4
	3
+ 1	7
3	4

Same

The answer is correct.

3.

T	O
①	
1	2
3	9
+ 4	1
9	2

Checking

T	O
①	
4	1
3	9
+ 1	2
9	2

Same

The answer is correct.

Detailed Solutions

4.

T	O
②	
2	6
1	8
+ 2	8
7	2

← Checking →   ← Same →

T	O
②	
2	8
1	8
+ 2	6
7	2

The answer is correct.

5.

T	O
①	
1	7
2	6
+ 4	3
8	6

← Checking →   ← Same →

T	O
①	
4	3
2	6
+ 1	7
8	6

The answer is correct.

6.

T	O
②	
2	7
3	6
+ 2	8
9	1

← Checking →   ← Same →

T	O
②	
2	8
3	6
+ 2	7
9	1

The answer is correct.

Practice Time 2H

1.

	T	O
	①	
Number of marbles Priya has =	2	5
Number of marbles her sister has = +	2	6
Total number of marbles =	5	1

Thus, they together have 51 marbles.

2.

	T	O
Number of white beads =	3	0
Number of pink beads =	1	5
Number of yellow beads = +	2	2
Total number of beads =	6	7

Thus, Anjali used 67 beads in all to make the necklace.

3.

	T	O
Marks obtained by Harish in Maths =	4	2
Marks obtained by Harish in EVS =	3	4
Marks obtained by Harish in English = +	2	3
Total marks obtained by Harish =	9	9

Thus, marks obtained by Harish in three subjects is 99.

4.

	T	O
	①	
Number of red balloons bought =	2	5
Number of green balloons bought =	1	4
Number of yellow balloons bought = +	3	3
Total number of balloons bought =	7	2

Thus, 72 balloons were bought by Rahul for sister's birthday party.

5. Number of seashells founded by class

	T	O
	①	
Before lunch =	4	5
After lunch = +	3	7
Total number of seashells =	8	2

Thus, the class found 82 seashells.

6.

	T	O
Number of birds sitting in the first tree	2	2
Number of birds sitting in the second tree =	3	5
Number of birds sitting in the third tree = +	4	0
Total number of birds =	9	7

Thus, 97 birds are sitting in three trees.

Mental Maths (Page 48)

1. $55 + 2 = 57$, $75 + 2 = 77$, $47 + 8 = 55$,
$67 + 8 = 75$, $87 + 8 = 95$, $49 + 9 = 58$,
$59 + 9 = 68$, $89 + 9 = 98$.

2. $1 + 8 = 9$, $3 + 6 = 9$, $4 + 5 = 9$

Chapter Assessment

1. (*b*) 31, 36, 41

2. (*a*) 37, 38   ($\because 37 + 38 = 75$)

3. (a)

T	O
①	
2	6
+	8
3	4

(b)

T	O
①	
3	6
+	4
4	0

(c)

T	O
3	8
+ 2	0
5	8

(d)

T	O
①	
5	2
+ 1	9
7	1

4. (a)

T	O
	3
5	3
+ 3	1
8	7

Checking ↔ Same

T	O
3	1
5	3
+	3
8	7

(b)

T	O
①	
	2
3	6
+	8
4	6

Checking ↔ Same

T	O
①	
	8
3	6
+	2
4	6

(c)

T	O
①	
4	3
1	5
+ 2	4
8	2

Checking ↔ Same

T	O
①	
2	4
1	5
+ 4	3
8	2

5.

	T	O
	①	
Number of ribbons Madhuri has =	2	6
Number of ribbons Surabhi has =	2	4
Number of ribbons Sangeeta has = +	1	8
Total number of ribbons =	6	8

Thus, they together have 68 ribbons.

6.

|	T	O
	①	
Number of boys in the class =	2	8
Number of girls in the class = +	1	7
Total number of children =	4	5

Thus, the total number of children in the class is 45.

Brain Sizzlers (Page 50)
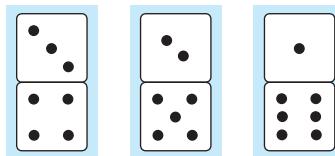
4 dots + 2 dots + 6 dots = 12 dots

CHAPTER 3 : SUBTRACTION

Get Ready

1. Total rakhis for sale = 21 + 69 = 90.

2. 90 – 10 = 80 rakhis were sold on that day.

Maths Connect (Page 53)

6 – 1 = 5, going up; 17 – 0 = 17 going up; 16 – 9 = 7, going up; 21 – 10 = 11 going up; and 15 – 15 = 0, coming down.

Thus, the number of kites going up = 4, and coming down = 1.

Life Skills (Page 53)

1. 20 – 10 = 10 fingers
2. 8 – 4 = 4 limbs
3. 30 – 29 = 1 nose
4. 19 – 9 = 10 toes
5. 5 – 3 = 2 elbows
6. 33 – 31 = 2 eyes

Quick Check (Page 54)

1. 22
2. 41

Practice Time 3A

1. (a) 22 – 0 = 22   (b) 31 – 0 = 31
   (c) 67 – 67 = 0   (d) 93 – 93 = 0
   (e) 57 – 1 = 56   (f) 88 – 1 = 87

Detailed Solutions

2. (*a*) 22 – 16 = 6
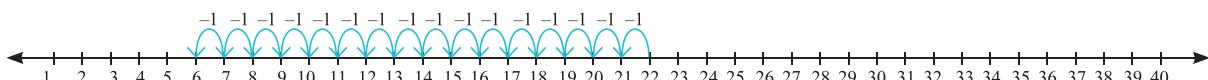
(*b*) 30 – 20 = 10
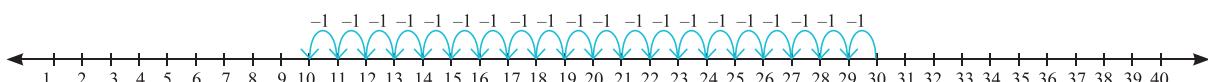
(*c*) 19 – 0 = 19
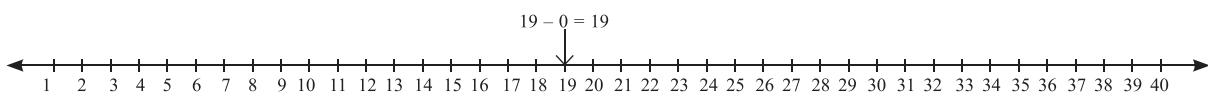
(*d*) 39 – 23 = 16
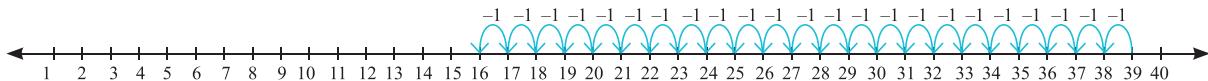
Think and Answer (Page 55)

1. 1 ten + 3 ones = 10 ones + 3 ones = 13 ones

2. 1 ten + 5 ones = 10 ones + 5 ones = 15 ones

Practice Time 3B

1. (*a*) 3 tens + 0 one = 2 tens + 1 ten + 0 one
$$= 2 \text{ tens} + 10 \text{ ones} + 0 \text{ one}$$
$$= 2 \text{ tens} + 10 \text{ ones}$$

(*b*) 5 tens + 1 one = 4 tens + 1 ten +1 one
$$= 4 \text{ tens} + 10 \text{ ones} + 1 \text{ one}$$
$$= 4 \text{ tens} + 11 \text{ ones}$$

2. (*a*) 4 tens + 3 ones = 3 tens + 1 ten + 3 ones
$$= 3 \text{ tens} + 10 \text{ ones} + 3 \text{ ones}$$
$$= 3 \text{ tens} + 13 \text{ ones}$$

(*b*) 3 tens + 0 ones = 2 tens + 1 ten + 0 one
$$= 2 \text{ tens} + 10 \text{ ones} + 0 \text{ one}$$
$$= 2 \text{ tens} + 10 \text{ ones}$$

(*c*) 5 tens + 2 ones = 4 tens + 1 ten + 2 ones
$$= 4 \text{ tens} + 10 \text{ ones} + 2 \text{ ones}$$
$$= 4 \text{ tens} + 12 \text{ ones}$$

3. (*a*) 57 = 5 tens + 7 ones
$$= 4 \text{ tens} + 1 \text{ ten} + 7 \text{ ones}$$
$$= 4 \text{ tens} + 10 \text{ ones} + 7 \text{ ones}$$
$$= 4 \text{ tens} + 17 \text{ ones}$$

(*b*) 63 = 6 tens + 3 ones
$$= 5 \text{ tens} + 1 \text{ ten} + 3 \text{ ones}$$
$$= 5 \text{ tens} + 10 \text{ ones} + 3 \text{ ones}$$
$$= 5 \text{ tens} + 13 \text{ ones}$$

(*c*) 44 = 4 tens + 4 ones
$$= 3 \text{ tens} + 1 \text{ ten} + 4 \text{ ones}$$
$$= 3 \text{ tens} + 10 \text{ ones} + 4 \text{ ones}$$
$$= 3 \text{ tens} + 14 \text{ ones}$$

Think and Answer (Page 58)

1. 70 ones = 7 tens

7 tens – 3 tens = 4 tens = 40

2. 95 – 52 = 43

∴ Number = 43 + 1 = 44

Practice Time 3C

1. (*a*)

T	O
③	⑮
4̸	5̸
–	8
3	7

(*b*)

T	O
②	⑩
3̸	0̸
–	4
2	6

(*c*)

T	O
①	⑰
2̸	7̸
–	9
1	8

(*d*)

T	O
③	⑩
4̸	0̸
–	5
3	5

2. (a)

T	O
⑤	⑩
6̸	0̸
− 2	5
3	5

(b)

T	O
⑤	⑪
6̸	1̸
− 4	4
1	7

(e)

T	O
①	⑮
2̸	5̸
− 1	6
0	9

(f)

T	O
④	⑪
5̸	1̸
− 1	7
3	4

(c)

T	O
③	⑩
4̸	0̸
− 1	8
2	2

(d)

T	O
⑧	⑩
9̸	0̸
− 2	1
6	9

(g)

T	O
④	⑫
5̸	2̸
− 2	8
2	4

(h)

T	O
⑥	⑫
7̸	2̸
− 2	4
4	8

Maths Fun (Page 59)

$90 - 1 = 89$
$89 - 15 = 74$
$55 - 48 = 7$
$30 - 15 = 15$
$74 - 6 = 68$
$70 - 4 = 66$
$69 - 2 = 67$
$$\begin{array}{r} 70 \\ -40 \\ \hline 30 \end{array}$$
$68 - 1 = 67$
$81 - 8 = 73$
$26 - 16 = 10$
$73 - 6 = 67$
$96 - 25 = 71$
$64 - 54 = 10$
$72 - 36 = 36$
$81 - 5 = 76$
$74 - 68 = 6$
$76 - 10 = 66$
$76 - 6 = 70$
$91 - 65 = 26$
$99 - 65 = 34$
$85 - 12 = 73$
$85 - 18 = 67$
$82 - 8 = 74$
$17 - 7 = 10$
$83 - 9 = 74$
$90 - 17 = 73$
$91 - 9 = 82$
$77 - 10 = 67$
$93 - 30 = 63$
$82 - 24 = 58$
$71 - 14 = 57$
$65 - 5 = 60$

Thus, Rocket is used for travel into space.

Detailed Solutions

Brain Sizzlers (Page 59)

1. 😊 + 😊 = 22 (Given)

∴ 😊 = 11

😊 – ⭐ = 5

11 – ⭐ = 5

∴ ⭐ = 6

Thus, 😊 = 11 and ⭐ = 6

2. After subtraction, the number we get is greater than 16, i.e., the difference should be either 17, 18 or 19

∵ 19 – 17 = 2 is an even number, and 19 – 18 = 1 is an odd number.

∴ The number is 1.

Practice Time 3D

1.

T	O	
3	7	←--Minuend
− 1	2	←--Subtrahend
2	5	←--Difference

Checking

T	O
2	5
+ 1	2
3	7

We get the minuend. So the answer is correct.

2.

T	O	
2	9	←--Minuend
− 1	9	←--Subtrahend
1	0	←--Difference

Checking

T	O
1	0
+ 1	9
2	9

We get the minuend. So the answer is correct.

3.

T	O
④	⑪
5̶	1̶
− 2	7
2	4

Checking

T	O
①	
2	4
+ 2	7
5	1

Thus, the answer is correct.

4.

T	O
⑤	⑩
6̶	0̶
− 4	9
1	1

Checking

T	O
①	
1	1
+ 4	9
6	0

Thus, the answer is correct.

5.

T	O
5	0
− 3	0
2	0

Checking

T	O
2	0
+ 3	0
5	0

Thus, the answer is correct.

6.

T	O
④	⑯
5̶	6̶
− 3	8
1	8

Checking

T	O
1	8
+ 3	8
5	6

Thus, the answer is correct.

Practice Time 3E

1. 5 + 6 = 11, 6 + 5 = 11, 11 − 5 = 6, 11 − 6 = 5

2. 9 + 12 = 21, 12 + 9 = 21, 21 − 9 = 12, 21 − 12 = 9

3. 17 + 21 = 38, 21 + 17 = 38, 38 − 21 = 17, 38 − 17 = 21

Practice Time 3F

1. (a) 9 + 5 = 14   (b) 7 + 6 = 13

(c) 11 + 6 = 17   (d) 14 + 3 = 17

(e) 6 + 8 = 14   (f) 22 + 14 = 36

2. (a) 9 − 3 = 6   (b) 17 − 8 = 9

(c) 24 − 10 = 14   (d) 21 − 8 = 13

(e) 13 − 4 = 9   (f) 43 − 19 = 24

3. (a) 17 − 8 = 9   (b) 13 − 5 = 8

(c) 14 − 4 = 10   (d) 20 − 8 = 12

(e) 28 − 7 = 21   (f) 26 − 7 = 19

Practice Time 3G

1.

	T	O
Number of balls in the big box =	2	9
Number of balls in the small box = −	1	4
Difference =	1	5

Thus, there are 15 more balls in the big box than small box.

2.

	T	O
Total number of students =	2	6
Number of students who like cartoon shows = −	1	5
Number of students who do not like cartoon shows =	1	1

Thus, number of students who do not like cartoon shows is 11.

3.

	T	O
	①	⑱
Total number of books in the shelf =	2̸	8̸
Number of storybooks = −		9
Number of other types of books =	1	9

Thus, the other types of books are 19.

4.

	T	O
	④	⑯
Number of stamps Pooja has =	5̸	6̸
Number of stamps Sony has = −	4	8
Difference in the numbers of stamps =	0	8

Thus, Pooja has 8 more stamps than Sony.

5. Same as above Q3.

6.

	T	O
	⑥	⑮
Total number of balloons bought by Vinod =	7̸	5̸
Number of balloons used = −	6	6
The number of balloons left unused =	0	9

Thus, 9 balloons are left unused.

Mental Maths (Page 64)

1. Largest 1-digit number = 9
Smallest 2-digit number = 10
Difference = 10 − 9 = 1

2. Subtract 94 from 94 to get 0.
∴ The answer is 94.

3.

	T	O
Number of bananas Tina had = 2 dozen =	2	4
Number of bananas distributed = −	2	0
Number of bananas left =	0	4

Thus, 4 bananas are left with her.

4.

	T	O
Smallest 2-digit odd number = 11	9	8
Greatest 2-digit even number = 98 −	1	1
Subtract 98 from 11 as 98 − 11 = 87	8	7

5.

	T	O
	⑥	⑩
Place value of 7 in the number 79 =	7̸	0̸
Face value of 7 in the number 79 = −		7
Difference =	6	3

Chapter Assessment

1. (c) Numbers less than 14 are: 13, 12, ...
Take 13 → 13 + 13 = 26 > 25
Take 12 → 12 + 12 = 24 < 25
Thus, the number is 13.

2.

	T	O
Total number of students in class 2 =	5	4
Number of students absent on Friday = −	1	2
Number of students, present on that day =	4	2

Thus, 42 students were present on that day.

3. (a)

T	O
6	9
− 4	9
2	0

(b)

T	O
⑥	⑫
7̸	2̸
− 4	7
2	5

(c)

T	O
⑦	⑯
8̸	6̸
− 3	8
4	8

(d)

T	O
⑥	⑩
7̸	0̸
− 2	9
4	1

4. (a)

	T	O
	3	6
−	1	2
	2	4

Checking

	T	O
	2	4
+	1	2
	3	6

The answer is correct.

(b)

	T	O
	③	⑮
	4̸	5̸
−	3	8
	0	7

Checking

	T	O
	①	
	0	7
+	3	8
	4	5

The answer is correct.

5. (a)

−10	Number	+10
46	56	56
54	64	74
19	29	39
68	78	88
45	55	65

(b)

−20	Number	+20
13	33	53
28	48	68
11	31	51
4	24	44
58	78	98

(c)

−30	Number	+30
22	52	82
09	39	69
20	50	80
33	68	98
15	45	75

6. Total number of marbles Jiya had = 27
Total number of marbles she gave to Piyush and Mala = 10 + 4 = 14
(a) After giving the marbles, Jiya has left = 27 − 14
= 13 marbles
(b) Jiya has 13 marbles, Piyush has 10 marbles.
Difference = 13 − 10 = 3 marbles.
Therefore, Jiya has 3 more marbles than Piyush.

CHAPTER 4 : ADDITION AND SUBTRACTION

Get Ready

1. Total number of plants bought by Ajay
= 15 (daisy) + 13 (lily) + 25 (rose) = 53 plants
2. Total number of plants taken by Madhu
= 18 (hibiscus) + 24 (dahlia) = 42 plants
3. ∵ Ajay bought 42 plants and Madhu bought 11 plants.
53 − 42 = 11
∴ Ajay bought 11 more plants.

Think and Answer (Page 69)

1. 98 + 6 = 104 runs
2. The smaller number less than 50 is 49
When we add, 49 + 49 = 98 < 99
So, we cannot get a number greater than 100 by adding two numbers smaller than 50.
3. Greatest 2-digit number is 99.
So,   99 + 99 = 198

Maths Connect (Page 70)

A's score = 16 + 18 + 19 = 53
B's score = 15 + 12 + 15 = 42
C's score = 14 + 9 + 11 = 34
D's score = 16 + 20 + 16 = 52
Hence, A is the winner

Practice Time 4A

1. (a) **Step 1.** First, add the ones.
2 ones + 5 ones = 7 ones
Write 7 at ones place.
Step 2. Add the tens and regroup.
4 tens + 8 tens = 12 tens
= 1 hundred + 2 tens
Write 2 tens at the tens column and carry over 1 hundred to the hundreds column.
Thus, we get 42 + 85 = 127.

H	T	O
	4	2
+	8	5
		7

H	T	O
①		
	4	2
+	8	5
1	2	7

(b) **Step 1.** First, add the ones. 3 ones + 2 ones = 5 ones
Step 2. Add the tens and regroup.
7 tens + 6 tens = 13 tens
= 10 tens + 3 tens
= 1 hundred + 3 tens
Write 3 tens at the tens column and carry over 1 hundred to the hundreds column.
Thus, we get 73 + 62 = 135.

H	T	O
	7	3
+	6	2
		5

H	T	O
①		
	7	3
+	6	2
1	3	5

(c)

H	T	O
①		
	5	5
+	5	4
1	0	9

(d)

H	T	O
①		
	6	2
+	7	7
1	3	9

Explanation: Same as (a) and (b)

2. (a) **Step 1.** Add the ones and regroup.
9 ones + 2 ones = 11 ones
= 1 ten + 1 one
Step 2. Add the tens and regroup
1 ten + 2 tens + 9 tens = 12 tens
= 1 hundred + 2 tens

T	O
①	
2	9
+ 9	2
	1

H	T	O
①	①	
	2	9
+	9	2
1	2	1

Thus, 29 + 92 = 121

(b)

H	T	O
①	①	
	6	6
+	6	6
1	3	2

(c)

H	T	O
①	①	
	6	9
+	8	4
1	5	3

(d)

H	T	O
①	①	
	7	7
+	5	8
1	3	5

Explanation: Same as (a).

3. (a) **Step 1.** Add the ones and regroup.
5 ones + 2 ones + 4 ones = 11 ones = 1 ten + 1 one

H	T	O
	①	
	1	5
	5	2
+	7	4
		1

Step 2. Add the tens and regroup.
1 ten + 1 ten + 5 tens + 7 tens = 14 tens = 1 hundred + 4 tens

H	T	O
①	①	
	1	5
	5	2
+	7	4
1	4	1

Thus, 15 + 52 + 74 = 141

(b)

H	T	O
①	①	
	6	4
	7	3
+	3	9
1	7	6

(c)

H	T	O
①	①	
	8	6
	7	3
+	2	9
1	8	8

(d)

H	T	O
①	①	
	8	9
	6	0
+	4	2
1	9	1

Explanation: Same as (a).

Activity (Page 71)

1. 30 + 80 = 110   2. 63 + 82 = 145
3. 27 + 76 = 103   4. 50 + 93 = 143
5. 82 + 82 = 164   6. 79 + 78 = 157
7. 59 + 44 = 103   8. 59 + 72 + 33 = 164
9. 24 + 66 + 95 = 185   10. 76 + 54 + 27 = 157

Practice Time 4B

1. (a) **Step 1.** Add the ones.
5 ones + 2 ones = 7 ones
Step 2. Add the tens.
3 ten + 4 ten = 7 tens
Step 3. Add the hundreds.
3 hundreds + 3 hundreds = 6 hundreds

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

(b)

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

(c)

H	T	O
4	0	4
+ 5	8	0
9	8	4

(d)

H	T	O
3	0	0
+ 2	5	0
5	5	0

(e)

H	T	O
2	6	7
	3	2
+ 4	0	0
6	9	9

Detailed Solutions

(f)

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

(g)

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

(h)

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

Explanation: Same as (a).

2. (a)   400 + 9

H	T	O
4	0	0
+		9
4	0	9

(b)   126 + 52

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

(c)   273 + 103 + 2

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

(d)   260 + 14 + 5

H	T	O
2	6	0
	1	4
+		5
2	7	9

Quick Check (Page 74)

1.

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

Regrouping at tens place.

2.

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

Regrouping at ones place.

3.

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

Regrouping at ones and tens places.

Practice Time 4C

1. **Step 1.** Add the ones and regroup.
　　　4 + 8 = 12 ones
　　　= 1 ten + 2 ones
Step 2. Add the tens.
　　　1 + 2 + 5 = 8 tens
Step 3. Add the hundreds.
　　　6 + 1 = 7 hundreds

H	T	O
	①	
6	2	4
+ 1	5	8
7	8	2

2.

H	T	O
	①	
5	1	8
+ 3	5	5
8	7	3

3.

H	T	O
①		
2	8	5
+ 3	4	4
6	2	9

4.

H	T	O
①		
5	6	2
+ 3	7	5
9	3	7

5.

H	T	O
①	①	
4	3	7
+ 2	9	3
7	3	0

6.

H	T	O
	①	
3	3	4
+ 4	2	7
7	6	1

7.

H	T	O
①	①	
1	9	7
+ 7	9	4
9	9	1

8.

H	T	O
①		
3	9	6
+ 2	4	2
6	3	8

Explanation: Same as (a).

Practice Time 4D

1.

		H	T	O
			①	①
Number of cows in the field =				8	5
Number of new cows joined =	+			2	8
Total number of cows in the field =			1	1	3

Thus, the total number of cows in the field is 113.

2.

	H	T	O
	①	①	
Saturday =		4	5
Sunday = +		5	9
Both days =	1	0	4

Number of pages read on:

Thus, the total number of pages read over the weekend is 104.

3.

	H	T	O
Number of boys visited =	6	2	0
Number of girls visited = +	2	2	0
Total number of students visited =	8	4	0

Thus, the total number of students visited the book fair is 840.

4.

	H	T	O
	①		
Number of mango trees =		9	3
Number of coconut trees = +	1	6	4
Total number of trees =	2	5	7

Thus, 257 trees are there in all.

5.

Number of stamps Sumita has = 582

Number of stamps Beena has = 355 + 582

	H	T	O
	①		
	5	8	2
+	3	5	5
	9	3	7

Thus, Beena has 937 stamps.

Brain Sizzlers (Page 76)

Number of Cherry candies = 317

Number of guava candies = 317 + 211 = 528

Total number of candies = 528 + 317 = 845

Practice Time 4E

1. Step 1. Subtract the ones.
6 ones – 4 ones
= 2 ones

H	T	O
8	5	6
– 6	3	4
		2

Step 2. Subtract the tens.
5 tens – 3 tens
= 2 tens

H	T	O
8	5	6
– 6	3	4
	2	2

Step 3. Subtract the hundreds.
8 hundreds – 6 hundreds
= 2 hundreds
Thus, 856 – 634 = 222

H	T	O
8	5	6
– 6	3	4
2	2	2

(b)

H	T	O
6	9	0
– 4	9	0
2	0	0

(c)

H	T	O
3	4	3
– 2	3	3
1	1	0

(d)

H	T	O
6	7	9
– 4	7	5
2	0	4

2. *(a)* 537 – 105

H	T	O
5	3	7
– 1	0	5
4	3	2

(b) 753 – 20

H	T	O
7	5	3
–	2	0
7	3	3

(c) 234 – 4

H	T	O
2	3	4
–		4
2	3	0

(d) 814 – 14

H	T	O
8	1	4
–	1	4
8	0	0

Think and Answer (Page 79)

1.

H	T	O
	④	⑯
7	5̶	6̶
– 5	2	7
2	2	9

2.

H	T	O
	③	⑫
4̶	2̶	8
– 2	3	5
1	9	3

Brain Sizzlers (Page 80)

Total number of passengers in the metro train $= 431$

The passengers get off at the first stop $= 110$

$\therefore$ Number of passengers left $= 431 - 110 = 321$

The passengers get off at the second stop $= 216$

$\therefore$ Number of passengers left after second stop

$\qquad = 321 - 216 = 105$ passengers

Thus, 105 passengers are there on the train now.

Maths Fun (Page 81)

The runs required by India to win after the:

Over – 10

	H	T	O
Target =	3	5	8
India = –		5	2
To win =	3	0	6

Over – 15

	H	T	O
Target =	3	5	8
India = –	1	2	2
To win =	2	3	6

Over – 20

	H	T	O
		(2)	(15)
Target =	3̶	5̶	8
India = –	1	8	5
To win =	1	7	3

Over – 40

	H	T	O
		(2)	(15)
Target =	3̶	5̶	8
India = –	2	6	0
To win =	0	9	8

Over – 49

	H	T	O
Target =	3	5	8
India = –	3	5	8
To win =	0	0	0

Practice Time 4F

1. **Step 1.** Subtract the ones.

Since, $1 < 9$,

so regroup.

6 tens + 1 one

= 5 tens + 11 ones

Now, 11 ones – 9 ones

= 2 ones.

H	T	O
	(5)	(11)
7	6̶	1̶
– 3	4	9
		2

Step 2. Subtract the tens.

5 tens are left.

So, 5 tens – 4 tens

= 1 ten

H	T	O
	(5)	(11)
7	6̶	1̶
– 3	4	9
	1	2

Step 3. Now, subtract the hundreds.

$7 - 3 = 4$ hundreds

Thus, $761 - 349 = 412$.

H	T	O
	(5)	(11)
7	6̶	1̶
– 3	4	9
4	1	2

(b)

H	T	O
	(3)	(16)
5	4̶	6̶
– 2	0	9
3	3	7

(c)

H	T	O
(6)	(13)	
7̶	3̶	4
– 4	6	0
2	7	4

(d)

H	T	O
(6)	(12)	
7̶	2̶	9
– 6	5	6
0	7	3

(e)

H	T	O
(2)	(11)	(17)
3̶	2̶	7̶
– 1	9	8
1	2	9

(f)

H	T	O
(4)	(12)	(10)
5̶	3̶	0̶
– 3	5	6
1	7	4

(g)

H	T	O
(5)	(10)	(14)
6̶	1̶	4̶
– 4	5	6
1	5	8

(h)

H	T	O
(8)	(9)	(10)
9̶	0̶	0̶
– 6	3	4
2	6	6

Explanation: same as (a).

2. (a) 935 – 86

First write the numbers in columns according to the place value and then subtract.

Step 1. Subtract the ones.
Since, 5 < 6,
so regroup.
3 tens + 5 ones
= 2 tens + 15 ones
Now, 15 – 6
= 9 ones

H	T	O
	②	⑮
9	3̷	5̷
–	8	6
		9

Step 2. Subtract the tens.
2 tens are left.
Since, 2 < 8,
so regroup
9 hundreds + 2 tens
= 8 hundreds + 12 tens
Now, 12 tens – 8 tens = 4 tens

H	T	O
⑧	⑫	⑮
9̷	3̷	5̷
–	8	6
	4	9

Step 3. Now, subtract the hundreds.
8 – 0 = 8 hundreds
Thus, 935 – 86 = 849

H	T	O
⑧	⑫	⑮
9̷	3̷	5̷
–	8	6
8	4	9

(b) 576 – 487

First write the numbers in columns according to the place value and then subtract.

H	T	O
④	⑯	⑯
5̷	7̷	6̷
– 4	8	7
0	8	9

(c)

H	T	O
②	⑪	⑪
3̷	2̷	1̷
– 1	9	5
1	2	6

(d)

H	T	O
③	⑪	⑯
4̷	2̷	6̷
– 2	7	7
1	4	9

(e)

H	T	O
④	⑮	⑬
5̷	6̷	3̷
– 2	7	5
2	8	8

(f)

H	T	O
⑤	⑫	⑩
6̷	3̷	0̷
– 4	8	2
1	4	8

(g)

H	T	O
③	⑫	⑭
4̷	3̷	4̷
–	7	9
3	5	5

(h)

H	T	O
④	⑨	⑩
5̷	0̷	0̷
– 2	0	7
2	9	3

Explanation: same as (a).

Practice Time 4G

1.

	H	T	O
		⓪	⑮
Total number of carrots in the basket =	1̷	5̷	2
Carrots eaten = –		8	0
Carrots left =	0	7	2

Thus, 72 carrots were left.

2.

	H	T	O
Number of children went for the picnic =	5	6	8
Number of girls went for the picnic = –	3	2	1
Number of boys went there in the picnic =	2	4	7

Thus, 247 boys were there in the picnic.

3.

	H	T	O
	⑥	⑩	⑪
The soft-drink bottles bought by the vendor =	7̷	1̷	1̷
Soft drink bottles sold = –	2	1	7
Soft drink bottles not sold =	4	9	4

Thus, 494 bottles were not sold.

4.

	H	T	O
		④	⑩
Number of sweets bought =	3	5̷	0̷
Number of sweets distributed = –	3	1	3
Number of sweets left =	0	3	7

Thus, 37 sweets were left.

5.

	H	T	O
Runs scored by Team A =	3	8	9
Runs scored by Team B = –	2	8	5
Difference in scores =	1	0	4

Thus, team A scored 104 runs more than team B.

Detailed Solutions

Life Skills (Page 83)

1. Total number of packets at the beginning
= 347 + 168 = 515 packets

H	T	O
①	①	
3	4	7
+ 1	6	8
5	1	5

Practice Time 4H

1. (*a*)

H	T	O
	①	⑭
7	2̶	4̶
− 5	1	8
2	0	6

H	T	O
	①	
2	0	6
+ 5	1	8
7	2	4

The answer is correct.

(*b*)

H	T	O
⑦	⑬	
8̶	3̶	6
− 4	9	2
3	4	4

H	T	O
	①	
3	4	4
+ 4	9	2
8	3	6

The answer is correct.

(*c*)

H	T	O
⑥	⑨	⑩
7	0̶	0̶
− 1	9	8
5	0	2

H	T	O
①	①	
5	0	2
+ 1	9	8
7	0	0

The answer is correct.

(*d*)

H	T	O
	⑥	⑬
2	7̶	3̶
− 1	3	6
1	3	7

H	T	O
	①	
1	3	7
+ 1	3	6
2	7	3

The answer is correct.

2. (*b*)

Add

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

Subtract

H	T	O	
2	6	8	km
− 1	4	7	km
1	2	1	km

(*c*) **Subtract**

H	T	O	
	⑦	⑬	
6	8̶	3̶	eggs
− 2	1	6	eggs
4	6	7	eggs

Chapter Assessment

1. (*a*)

H	T	O
①		
	2	6
+	9	0
1	1	6

Hence, option (*a*) is correct.

2. (*b*)

H	T	O
②	⑫	
3̶	2̶	8
− 2	3	4
0	9	4

Hence, option (*b*) is incorrect

3. (*a*)

H	T	O
6	9	5
−	1	5
6	8	0

(*b*)

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

(*c*)

H	T	O
①	①	
5	0	7
+ 3	9	8
9	0	5

(*d*)

H	T	O
⑦	⑪	⑭
8̶	2̶	4̶
− 7	9	8
0	2	6

4. (*a*) Toys sold on Monday = 248
Toys sold on Tuesday = 356
Total toys sold in the two days
= 248 + 356 = 604 toys

H	T	O
①	①	
2	4	8
+ 3	5	6
6	0	4

(*b*) ∵ 356 > 248
So, the shopkeeper sold more toys on Tuesday than Monday

	H	T	O
		④	⑯
Toys sold on Tuesday =	3	5̶	6̶
Toys sold on Monday = −	2	4	8
Difference =	1	0	8

Thus, the shopkeeper sold 108 more toys on Tuesday than on Monday.

5. Number of pages read by Preeti on Saturday = 108

∵ She read 78 more than Saturday on Sunday.

∴ Number of pages read by her on Sunday = 108 + 78 = 186.

Therefore, Preeti read 186 pages on Sunday.

H	T	O
	①	
1	0	8
= +		7	8
=	1	8	6

Mental Maths (Page 86)

1. Raghav's age = 15 years

Raghav's sister age = 1 decade + 15 years

$\qquad$ = 10 years + 15 years

$\qquad$ (∵ 1 decade = 10 years)

$\qquad$ = 25 years

2. (a)

H	T	O
①	①	
	5	3
+	8	7
1	4	0

(b)

H	T	O
	⑦	⑬
3	8	3
−	5	9
3	2	4

(c)

H	T	O
①	①	
3	5	2
+ 1	9	8
5	5	0

(d)

H	T	O
⑧	⑫	⑩
9	3	0
− 2	8	8
6	4	2

CHAPTER 5 : MULTIPLICATION

Get Ready

1. A rabbit covers 2 m distance in one hop.

The distance covered by the rabbit in 6 hops

= 2 m added 6 times = 2 + 2 + 2 + 2 + 2 + 2 = 12 m

Therefore, a rabbit will hop 12 m in 6 hops.

2. Since the child covers 1 m in one hop,

the distance covered by the child in 10 hops is:

1 m added 10 times = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = 10 m

Practice Time 5A

1. (a) 6 + 6 + 6 = 18 or 3 × 6 = 18

(b) 2 + 2 + 2 + 2 = 8 or 4 × 2 = 8

(c) 5 + 5 + 5 + 5 + 5 = 25 or 5 × 5 = 25

2. (a) 6 + 6 + 6 + 6 = 4 × 6

(b) 5 + 5 + 5 + 5 + 5 + 5 = 6 × 5

(c) 10 + 10 = 2 × 10

(d) 8 + 8 + 8 = 3 × 8

(e) 6 + 6 + 6 + 6 + 6 = 5 × 6

(f) 3 + 3 + 3 + 3 + 3 + 3 = 6 × 3

3. (a) 4 × 8 = 8 + 8 + 8 + 8

(b) 7 × 5 = 5 + 5 + 5 + 5 + 5 + 5 + 5

(c) 4 × 9 = 9 + 9 + 9 + 9

(d) 3 × 6 = 6 + 6 + 6

(e) 5 × 7 = 7 + 7 + 7 + 7 + 7

(f) 6 × 4 = 4 + 4 + 4 + 4 + 4 + 4

Practice Time 5B

**1.** (a) There are 3 groups of two-candles.

$\qquad$ 3 × 2 = 6

(b) There are 2 groups of eight-ice-creams.

$\qquad$ 2 × 8 = 16

2. (a)

(b)

(c)
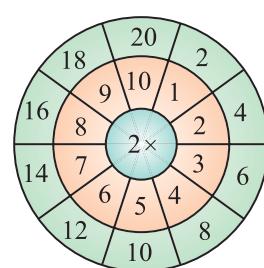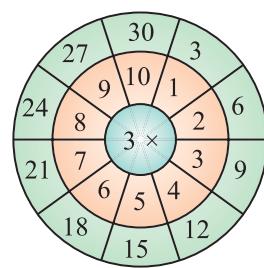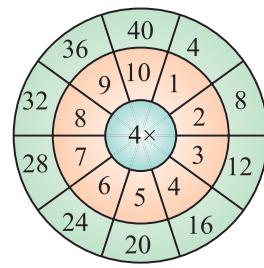
3. Do it yourself
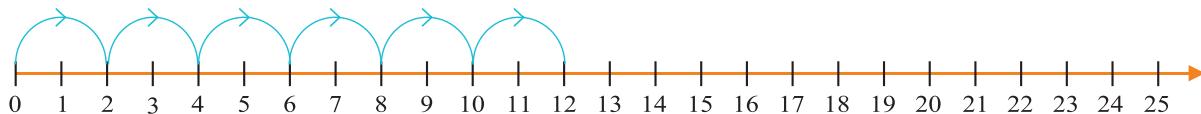
4. (*a*) 6 jumps of 2

$$\boxed{6} \times \boxed{2} = \boxed{12}$$

(*b*) 5 jumps of 3
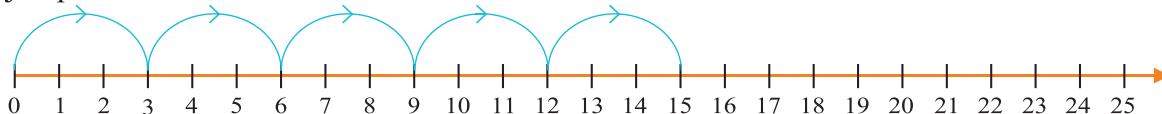
$$\boxed{5} \times \boxed{3} = \boxed{15}$$

(*c*) 5 jumps of 5
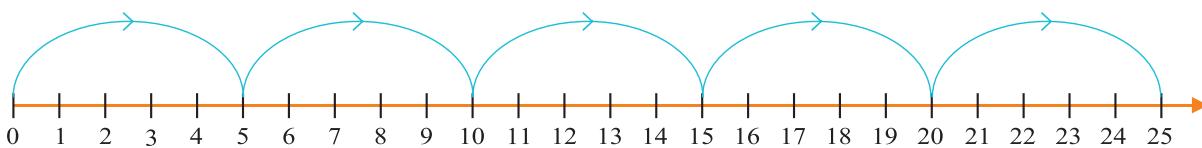
$$\boxed{5} \times \boxed{5} = \boxed{25}$$

(*d*) 6 jumps of 4
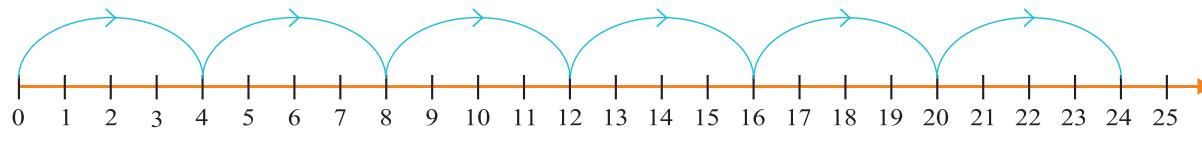
$$\boxed{6} \times \boxed{4} = \boxed{24}$$

5. (*a*) $2 \times 4 = \boxed{8}$ (*b*) $5 \times 4 = \boxed{20}$

(*c*) $4 \times 6 = \boxed{24}$ (*d*) $9 \times 3 = \boxed{27}$

(*e*) $2 \times 10 = \boxed{20}$ (*f*) $6 \times 7 = \boxed{42}$

(*g*) $8 \times 5 = \boxed{40}$ (*h*) $3 \times 10 = \boxed{30}$

(*i*) $7 \times 2 = \boxed{14}$ (*j*) $6 \times 3 = \boxed{18}$

(*k*) $8 \times 6 = \boxed{48}$ (*l*) $9 \times 10 = \boxed{90}$

Think and Answer (Page 99)

1. Yes, the rows and the columns are interchanged in the arrangement of Laddoos.

2. In the pictures it is shown that 2 groups of sevens is the same as 7 groups of twos. So, in the pictures it is illustrated that, if we change the order in the multiplication, the result will be unchanged.

3. No.

7 twos = $7 \times 2 = 14$ and 2 fives = $2 \times 5 = 10$

$14 \neq 10$

Thus, given statement is incorrect.

Practice Time 5C

1. (*a*) $1 \times 2 = \boxed{2}$ (*b*) $1 \times 5 = \boxed{5}$

(*c*) $5 \times 1 = \boxed{5}$ (*d*) $1 \times 8 = \boxed{8}$

(*e*) $9 \times 0 = \boxed{0}$ (*f*) $7 \times 1 = \boxed{7}$

(*g*) $1 \times 1 = \boxed{1}$ (*h*) $0 \times 3 = \boxed{0}$

(*i*) $3 \times 2 = \boxed{6}$

2. (*a*) $3 \times 4 = 4 \times \boxed{3}$ (*b*) $5 \times 6 = 6 \times \boxed{5}$

(*c*) $2 \times 5 = 5 \times \boxed{2}$ (*d*) $4 \times 5 = 5 \times \boxed{4}$

(*e*) $3 \times 7 = \boxed{7} \times 3$ (*f*) $2 \times 6 = \boxed{6} \times 2$

(*g*) $2 \times 8 = \boxed{8} \times 2$ (*h*) $7 \times 4 = \boxed{4} \times 7$

(*i*) $\boxed{8} \times 5 = 5 \times 8$

3. (*a*) Double of $7 = 7 \times 2 = \boxed{14}$

(*b*) Double of $6 = 6 \times 2 = \boxed{12}$

(*c*) Double of $8 = 8 \times 2 = \boxed{16}$

(d) Double of 9 = 9 × 2 = 18
(e) Double of 10 = 10 × 2 = 20
(f) Double of 1 = 1 × 2 = 2

Practice Time 5D

1. (a)

T	O
	8
×	5
4	0

(b)

T	O
	9
×	5
4	5

(c)

T	O
	6
×	4
2	4

(d)

T	O
	7
×	3
2	1

(e)

T	O
	6
×	5
3	0

(f)

T	O
	7
×	4
2	8

(g)

T	O
	5
×	2
1	0

(h)

T	O
	6
×	3
1	8

(i)

T	O
	3
×	2
	6

(j)

T	O
	5
×	5
2	5

2. (a) 5 × 4 = 20

T	O
	5
×	4
2	0

(b) 6 × 2 = 12

T	O
	6
×	2
1	2

Same as above (a) and (b)
(c) 2 × 6 = 12   (d) 9 × 3 = 27
(e) 3 × 9 = 27   (f) 9 × 10 = 90
(g) 2 × 5 = 10   (h) 4 × 4 = 16
(i) 7 × 9 = 63   (j) 8 × 8 = 64

3. (a) Number of legs in one chair = 4
Number of legs in 9 chairs
= 9 × 4 = 36 legs

T	O
	9
×	4
3	6

(b)

T	O
	6
×	2
1	2

Number of swings in the park = 6
Number of children on each swing = × 2
Number of children in all = 12
Thus, there are 12 children in all.

(c)

T	O
	2
×	9
1	8

Number of flowers each child has = 2
Number of children = × 9
Number of flowers 9 children have = 18
So, 9 children have 18 flowers.

(d)

T	O
	3
×	4
1	2

Number of see-saws in the park = 3
Number of children on each sea-saw = × 4
Number of children in all = 12
Thus, there are 12 children in all.

(e)

T	O
	5
×	6
3	0

Total number of children = 5
Number of sweets each child has = × 6
Number of sweets in all = 30
Thus, there are 30 sweets in all.

Practice Time 5E

1.

T	O
1	2
×	4
4	8

2.

T	O
3	2
×	2
6	4

3.

T	O
2	2
×	3
6	6

4.

T	O
3	3
×	2
6	6

5.

T	O
2	1
×	4
8	4

6.

T	O
4	0
×	2
8	0

7.

T	O
3	3
×	3
9	9

8.

T	O
1	1
×	6
6	6

Detailed Solutions

Think and Answer (Page 105)

1.

T	O
	[6]
×	6
3	6

2.

T	O
(4)	
[1]	8
×	5
9	[0]

3.

H	T	O
	(2)	
	5	[5]
×		5
[2]	7	5

Practice Time 5F

1. (a)

T	O
(1)	
2	4
×	3
7	2

(b)

T	O
(2)	
1	5
×	5
7	5

(c)

T	O
(4)	
1	9
×	5
9	5

(d)

T	O
(1)	
2	6
×	2
5	2

2. (a)

H	T	O
(1)		
	6	3
×		3
1	8	9

(b)

H	T	O
(3)		
	8	2
×		4
3	2	8

(c)

H	T	O
(7)		
	9	1
×		8
7	2	8

(d)

H	T	O
(4)		
	7	0
×		7
4	9	0

3. (a)

H	T	O
(1)	(1)	
	4	5
×		3
1	3	5

(b)

H	T	O
(1)	(3)	
	4	8
×		4
1	9	2

(c)

H	T	O
(6)	(6)	
	6	7
×		9
6	0	3

(d)

H	T	O
(6)	(4)	
	7	6
×		8
6	0	8

(e)

H	T	O
(8)		
	9	1
×		9
8	1	9

(f)

H	T	O
(3)	(1)	
	6	2
×		6
3	7	2

(g)

H	T	O
(4)	(4)	
	9	8
×		5
4	9	0

(h)

H	T	O
(4)	(5)	
	6	8
×		7
4	7	6

Practice Time 5G

1. (a)

H	T	O
(2)		
	4	0
×		5
2	0	0

Number of crayons in one packet = 40
Number of crayons in 5 packets = × 5
Total number of crayons = 200

Thus, the total number of crayons is 200.

(b)

H	T	O
(1)	(2)	
	2	4
×		5
1	2	0

Number of students in one row = 24
Number of rows = × 5
Number of students in 5 rows = 120

Thus, there are 120 students in 5 rows.

(c)

	H	T	O
Number of bags of wheat each shop has =	③	②	
		7	5
Number of shops in the village = ×			4
Total number of bags of the wheat in the shops =	3	0	0

Thus, there are 300 bags of wheat in all.

(d)

	H	T	O
	①	①	
Number of pencils in one packet =		1	2
Number of packets = ×			9
Number of pencils in 9 packets =	1	0	8

Thus, there are 108 pencils in the 9 packets.

(e)

	H	T	O
	①	①	
Number of books in one rack =		2	2
Number of racks = ×			8
Number of books in 8 racks =	1	7	6

Thus, there are 176 books in 8 racks.

2. (a) To find the difference between number of red and blue balloons, you need to use subtraction.

	H	T	O
Number of red balloons =	2	4	2
Number of blue balloons = −	1	6	0
Difference =	0	8	2

Thus, there were 82 more red balloons than blue balloons.

(b) To find the total number of people visited the book fair on both days, you need to do addition.

Number of people visited the book fair:

	H	T	O
On Monday =	3	6	2
On Tuesday = +	2	1	0
On both days =	5	7	2

Thus, 572 people visited the book fair on both days.

(c) Total number of slices of one pizza is given. To fund find the total number of slices of 15 such pizzas, you need to do multiplication.
Number of slices in one pizza = 4
Number of pizzas = 15
Number of slices in 15 pizzas
= 15 × 4 = 60 slices.

(d) The number of trophies in one section of a showcase is given. To find the total number of trophies in 5 such sections, we need to do multiplication.

	H	T	O
	①		
Number of trophies in one section =		3	0
Number of sections = ×			5
Number of trophies in 5 sections =	1	5	0

Thus, there are 150 trophies in 5 sections of the showcase.

Life Skills (Page 108)

Total friends = 6		
Item	**Each got**	**Total items**
ICE cream	2	2 × 6 = 12
Chocolate	4	4 × 6 = 24
Pastry	3	3 × 6 = 18
Lollipop	6	6 × 6 = 36
Candies	10	10 × 6 = 60

Mental Maths (Page 108)

1. Number of wheels in 4 tricycles = 4 × 3 = 12 wheels.

2. There are 42 days in 6 weeks. (∵ 6 × 7 = 42)

3. Do it yourself.

4.

	T	O
Number of pages read by Rahul in one day =	1	0
Number of days in one week = ×		7
Number of pages in one week =	7	0

Thus, Rahul will be able to read 70 pages in a week.

5.

	T	O
	①	
Total number of dice =		4
Number of dots on each die = ×		4
Number of dots in all =	1	6

Thus, 16 dots were there in all.

Brain Sizzlers (Page 108)

1.

1	$\times$	2	$=$	2			4	$\times$	5	$=$	20
		$\times$							$\times$		
3	$\times$	1	$=$	3			3	$\times$	6	$=$	18
		$=$							$=$		
		2	$\times$	6	$=$	12					

2. Kiran's age = 8 years.

Kiran father's age = 34

By trial method using the given options, we see that after 5 years, Kiran's age = 8 + 5 = 13 years.

Kiran's father age = 34 + 5 = 39 years

13 × 3 = 39

Therefore, the correct answer is option (*c*).

Chapter Assessment

1. (*a*) All of these

2. (*c*) 4 + 5 = 20   ($\because$ 4 + 5 = 9, 4 + 5 ≠ 20)

3. (*b*) 3 × 6 = 18

4. (*b*) 4 × 9 = 36, 9 × 4 = 36

(*c*) 6 × 3 = 18, 3 × 6 = 18

(*d*) 10 × 5 = 50, 5 × 10 = 50

5. (*a*)

H	T	O
①	①	
	6	6
×		3
1	9	8

(*b*)

H	T	O
③		
	8	2
×		4
3	2	8

(*c*)

H	T	O
①		
	2	1
×		8
1	6	8

(*d*)

H	T	O
④	⑤	
	6	9
×		6
4	1	4

6.

	H	T	O
	①	④	
Number of balls in one box =		1	5
Number of boxes = ×			9
Number of balls in 9 boxes =	1	3	5

Thus, there are 135 balls in 9 such boxes.

7.

	H	T	O
	①	③	
Number of chairs in one row =		3	6
Number of rows = ×			5
Number of chairs in 5 rows =	1	8	0

Thus, there are 180 chairs in 5 rows.

CHAPTER 6 : DIVISION

Get Ready

Number of pastries = 8

Number of members = 4

Number of pastries each member gets = 8 ÷ 4 = 2

Thus, each member will get 2 pastries.

Practice Time 6A

1. Observe the given picture. 15 balloons can be shared equally among 3 children by dividing the balloons into groups of 5. Therefore, each child gets ⬚5 balloons. So, 15 ÷ 3 = ⬚5.

2. Similarly as explained above.

Each monkey gets ⬚4 bananas.

So, 16 ÷ 4 = ⬚4

3. Each parrot gets ⬚10 chillies.

So, ⬚30 ÷ 3 = ⬚10

4. (*a*) Number of students in the class = 30

Number of teams = 6

Number of students in each team = 30 ÷ 6 = 5

So, there are 5 students in each team.

(*b*) 30 ÷ 6 = 5

Practice Time 6B

1. (*a*)
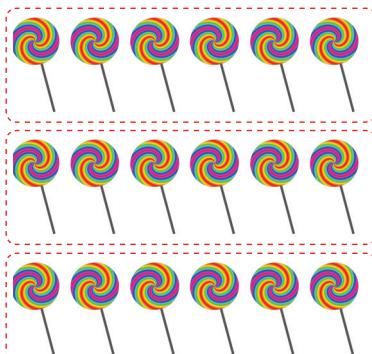
3 groups

⬚18 divided by ⬚6 equals ⬚3

So, ⬚18 ÷ ⬚6 = ⬚3

(b)
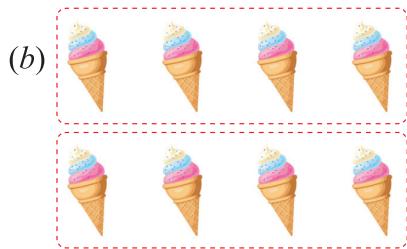
2 groups

8 divided by 4 equals 2

So, 8 ÷ 4 = 2

2. (b) 2 groups, 6 strawberries in each group.

Division facts: $12 \div 6 = 2$ and $12 \div 2 = 6$.

(c) 5 groups, 4 bananas in each groups.

Division facts: $20 \div 4 = 5$ and $20 \div 5 = 4$.

(d) 3 groups, 8 grapes in each group.

Division facts: $24 \div 8 = 3$ and $24 \div 3 = 8$.

3. Number of gulabjamuns = 16

Number plates = 4

Division facts: $16 \div 4 = 4$.
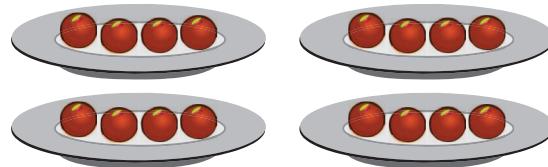
Practice Time 6C

**1.** (a) To divide 14 erasers among 7 children, subtract 7 from 14 until you get 0.

$14 - 7 - 7 = 0$ (7 is subtracted 2 times)

Therefore, each child gets 2 erasers.
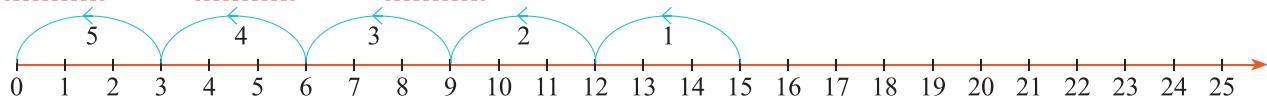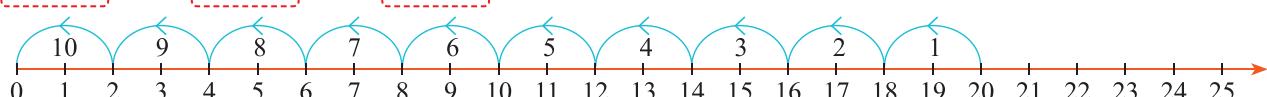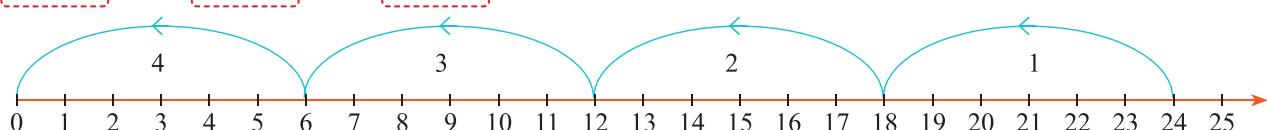
Similarly,

(b) $12 - 3 - 3 - 3 - 3 = 0$ (3 is subtracted 4 times)

∴ Each girl gets 4 balls.

(c) $36 - 6 - 6 - 6 - 6 - 6 - 6 = 0$ (6 is subtracted 6 times)

∴ Each boy gets 6 kites.

(d) $20 - 5 - 5 - 5 - 5 = 0$ (5 is subtracted 4 times)

∴ Each student gets 4 pencils.

2. (a) Repeated Subtraction

$10 - 5 = 5, 5 - 5 = 0$, so, $10 - 5 - 5 = 0$

∴ $10 \div 5 = 2$

(b) Repeated Subtraction

$18 - 6 = 12, 12 - 6 = 6, 6 - 6 = 0$

So, $18 - 6 - 6 - 6 = 0$

∴ $18 \div 6 = 3$

(c) Repeated Subtraction

$25 - 5 = 20, 20 - 5 = 15, 15 - 5 = 10,$

$10 - 5 = 5, 5 - 5 = 0$

So, $25 - 5 - 5 - 5 - 5 - 5 = 0$

∴ $25 \div 5 = 5$

(d) Repeated Subtraction $16 - 8 = 8, 8 - 8 = 0$

∴ $16 \div 8 = 2$

(e) Repeated Subtraction

$24 - 4 = 20, 20 - 4 = 16, 16 - 4 = 12, 12 - 4 = 8, 8 - 4 = 4, 4 - 4 = 0$

∴ $24 \div 4 = 6$

(f) Same as above. $30 \div 6 = 5$

3. (a) 15 ÷ 3 = 5

(b) 20 ÷ 2 = 10

(c) 24 ÷ 6 = 4

Detailed Solutions

Think and Answer (Page 119)

1. Division fact: $25 \div 5 = 5$
   So, you will get one division fact.

2.

Multiplication Facts						Corresponding Division Facts					
(a)	7	×	6	=	42	→	42	÷	7	=	6
(b)	6	×	7	=	42	→	42	÷	6	=	7
(c)	6	×	5	=	30	→	30	÷	5	=	6
(d)	5	×	6	=	30	→	30	÷	6	=	5
(e)	10	×	8	=	80	→	80	÷	8	=	10
(f)	8	×	10	=	80	→	80	÷	10	=	8

Practice Time 6D

1. (b) Division Facts: $18 \div 9 = 2$, $18 \div 2 = 9$
   (c) Division Facts: $32 \div 4 = 8$, $32 \div 8 = 4$
   (d) Division Facts: $42 \div 6 = 7$, $42 \div 7 = 6$
   (e) Division Facts: $48 \div 6 = 8$, $48 \div 8 = 6$
   (f) Division Facts: $20 \div 4 = 5$, $20 \div 5 = 4$

2. (a) Recall the multiplication table of 3.

   $1 \times 3 = 3$, $2 \times 3 = 6$, $3 \times 3 = 9$, $4 \times 3 = 12$,

   $5 \times 3 = 15$, $6 \times 3 = 18$, $7 \times 3 = 21$,

   $8 \times 3 = 24$ (Stop here)

   Using the relation between division and multiplication, we find that $24 \div 3 = 8$

   (b) Recall the multiplication table of 7.

   $1 \times 7 = 7$, $2 \times 7 = 14$, $3 \times 7 = 21$ (Stop here)

   Using the relation between division and multiplication, we find that $21 \div 7 = 3$

   (c) Recall the multiplication table of 10.

   $1 \times 10 = 10$, $2 \times 10 = 20$,

   $3 \times 10 = 30$ (Stop here)

   Using the relation between division and multiplication, we find that $30 \div 10 = 3$

   (d) to (l) Same as above.

Practice Time 6E

1. (a) Dividend = 18, Divisor = 2, Quotient = 9
   (b) Dividend = 24, Divisor = 8, Quotient = 3
   (c) Dividend = 36, Divisor = 4, Quotient = 9
   (d) Dividend = 40, Divisor = 5, Quotient = 8
   (e) Dividend = 54, Divisor = 6, Quotient = 9

2. (b)
$$4 \overline{)\,32\,}\;\;8 \qquad -32 \qquad 0$$

(c)
$$6 \overline{)\,36\,}\;\;6 \qquad -36 \qquad 0$$

(d)
$$5 \overline{)\,45\,}\;\;9 \qquad -45 \qquad 0$$

(e)
$$6 \overline{)\,54\,}\;\;9 \qquad -54 \qquad 0$$

(f)
$$10 \overline{)\,60\,}\;\;6 \qquad -60 \qquad 0$$

(g)
$$8 \overline{)\,48\,}\;\;6 \qquad -48 \qquad 0$$

(h)
$$9 \overline{)\,63\,}\;\;7 \qquad -63 \qquad 0$$

Practice Time 6F

1. (a) Divisor →
$$4 \overline{)\,25\,}\;\;6 \leftarrow \text{Quotient}$$
   Dividend ← 25
   -24
   $0\,1$ ← Remainder
   Q = 6, R = 1

(b)
$$5 \overline{)\,32\,}\;\;6 \leftarrow Q \qquad -30 \qquad 0\,2 \leftarrow R$$
Q = 6, R = 2

(c)
$$8 \overline{)\,47\,}\;\;5 \leftarrow Q \qquad -40 \qquad 0\,7 \leftarrow R$$
Q = 5, R = 7

(d)
$$9 \overline{)\,75\,}\;\;8 \leftarrow Q \qquad -72 \qquad 0\,3 \leftarrow R$$
Q = 8, R = 3

2. Do it yourself.

Practice Time 6G

1. $8 \div 8 = 1$
2. $9 \div 1 = 9$
3. $5 \div 0 =$ not possible
4. $0 \div 1 = 0$
5. $0 \div 7 = 0$
6. $6 \div 0 =$ not possible
7. $7 \div 7 = 1$
8. $4 \div 4 = 1$
9. $10 \div 10 = 1$
10. $0 \div 10 = 0$
11. $2 \div 1 = 2$
12. $1 \div 0 =$ not possible

Practice Time 6H

1. Total score = 45 runs
   5 players scored the same runs to make a total of 45 runs.
   To find the runs scored by each player, we need to divide 45 by 5.
   $45 \div 5 = 9$
   Therefore, each player scored 9 runs.
2. Total pages to be coloured in 3 days = 6
   To find the number of pages to be coloured everyday, you need to divide 6 by 3.
   $6 \div 3 = 2$
   Therefore, Anjana should colour 2 pages everyday.
3. Total number of candies = 40
   The total number of friends = 8
   To find the share of each friends, we need to divide 40 by 8.
   $40 \div 8 = 5$
   Therefore, each friend will get 5 candies.
4. The cost of 5 chocolates = ₹50
   The cost of 1 chocolates = ₹50 ÷ 5 = ₹10
   Thus, the cost of one chocolate is ₹10.
5. 6 balls are packed in one box.
   To find the required number of boxes to pack 36 balls, we need to divide 36 by 6.
   $36 \div 6 = 6$
   Therefore, 6 boxes are used to pack all the balls.

Chapter Assessment

1. (a) $20 \div 5 = 4$
2. (c) $20 \div 5 = 4$
3. (b) $72 \div 9 = 8$
4. (a) $14 \div 7 = 2$ (b) $27 \div 9 = 3$

5. (a)
$$3 \overline{)18} \quad 6 \leftarrow Q$$
$$-18$$
$$0 \leftarrow R$$
Q = 6, R = 0

(b)
$$5 \overline{)21} \quad 4 \leftarrow Q$$
$$-20$$
$$01 \leftarrow R$$
Q = 4, R = 1

(c)
$$8 \overline{)36} \quad 4 \leftarrow Q$$
$$-32$$
$$04 \leftarrow R$$
Q = 4, R = 4
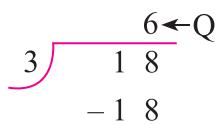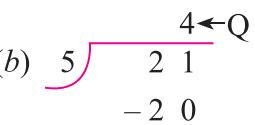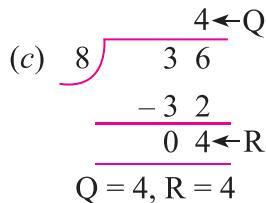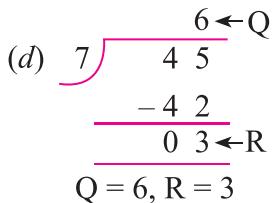
(d)
$$7 \overline{)45} \quad 6 \leftarrow Q$$
$$-42$$
$$03 \leftarrow R$$
Q = 6, R = 3

6. (a) Total toffees = 28
   To divide 40 toffees equally among 4 boys, divide 28 by 4, $28 \div 4 = 7$
   Thus, each boy will get 7 toffees.
$$4 \overline{)28} \quad 7 \leftarrow Q$$
$$-28$$
$$0 \leftarrow R$$

(b) Total mangoes = 20
   Each plate contains 2 mangoes
   To get the required number of plates, divide 20 by 2. $20 \div 2 = 10$
   Thus, 10 plates will contain 20 mangoes.
$$2 \overline{)20} \quad 10 \leftarrow Q$$
$$-20$$
$$0 \leftarrow R$$

(c) Total boys = 50
   10 boys stand in one row
   Divide 50 by 10. $50 \div 10 = 5$
   Thus, 50 boys can stand in 10 rows.

Mental Maths (Page 127)

1. Pairs of earrings = $16 \div 2 = 8$ pairs
2. Number of wheels = 20
   Number of wheels in one car = 4
   Divide 20 by 4. $20 \div 4 = 5$
   Thus, required number of cars = 5
3. $12 \div 3 = 4$ groups.
4. $6 \times 6 = 36$. So, there are six 6s in 36.
5. Number of days = 56
   1 week = 7 days.
   $56 \div 7 = 8$.
   ∴ There are 8 weeks in 56 days.
6. $30 \div 10 = 3$
   ∴ Required number = 30

Brain Sizzlers (Page 127)

1. Distance covered in one hop = 4 m
   Number of hops to cover 40 m can be find as
   $40 \div 4 = 10$ m.
   Thus, 10 hops are required to cover 40 m.

Detailed Solutions

2. Total number of buttons for stitching shirts = 50
Number of buttons used in one shirt = 6
To find the number of shirts, we divide 50 by 6.

$$\begin{array}{r} 8 \\ 6\overline{)5\ 0} \\ -4\ 8 \\ \hline 0\ 2 \end{array}$$

Thus, he can stitch 8 shirts and 2 buttons will be leftover.

MODEL TEST PAPER – 1

1. (*d*) 623
2. (*c*) The least number among 709, 790, 907, and 970 is 709
3. (*c*) 800 – 100 = 700
4. (*c*) 700 – 250 = 450
5. (*c*) 10 as 10 × 10 = 100
6. (*c*) 2 × 25 = 50
7. (*b*) 50 + 65 = 115
8. (*c*) 2 groups of 3 dots each make 6.
9. (*c*) The least value is 20 ÷ 5 = 4
10. (*b*) 40 ÷ 8 = 5
11. (*a*) 70 tens + 2 ones = 700 + 2 = 702 ≠ 72
Hence, the statement is false.
　(*b*) 1 hundred + 0 ones + 3 tens = 100 + 0 + 30 = 130 ≠ 103
Hence, the statement is false.
　(*c*) 312 is greater than 213 = True
　(*d*) 38 – 25 = 13 True
　(*e*) 24 ÷ 6 = 4. False
12. Given numbers is 143, 816, 206, 265, 818, 230
Ascending order = 143, 206, 230, 265, 816, 818
Descending order = 818, 816, 265, 230, 206, 143
13. Seema has 95 sells and Nena has 120 sells.
Neha gives 15 shells to Seema, so number of shells left with Neha = 120 – 15 = 105 and number of shells with Seema = 95 + 15 = 110.
Thus, Seema has more number of shells.

14.

	Expanded Form	Short Form
(*a*)	7 hundred + 0 tens + 9 ones	709
(*b*)	900 + 80 + 7	987
(*c*)	900 + 50 + 7	957

15. (*a*) Total number of animals on the farm
= 45 cows + 47 goats = 92

　(*b*) 45 cows = 45 × 4 legs = 180 legs
47 goats = 47 × 4 legs = 188 legs
Total legs = (180 + 188) legs = 368 legs
16. Total chocolates = 84
To distribute 84 chocolates equally among 7 children, we divide 84 by 7.

$$\begin{array}{r} 12 \\ 7\overline{)8\ 4} \\ -7\downarrow \\ \hline 1\ 4 \\ -1\ 4 \\ \hline 0 \end{array}$$

Thus, each child will get 12 chocolates.

CHAPTER 7 : FRACTION

Practice Time 7A
1. (*a*), (*c*) and (*e*)　　**2.** Do by yourself
3. Do by yourself　　**4.** Do by yourself

Practice Time 7B
3. (*a*) Green; $\dfrac{1}{4}$　　(*b*) Red; $\dfrac{3}{4}$

Mental Maths (Page 134)
2. Full bunch of bananas = 4 times ($\dfrac{1}{4}$ of the bunch)
∴　Total bananas in the bunch
= 4 times (2 bananas) = 4 × 2 = 8 bananas.

Quick Check (Page 135)
1. $\dfrac{1}{2}$ of 10 balls = $\dfrac{1}{2}$ × 10 = 5 balls.

2. $\dfrac{1}{3}$ of 12 toffees = $\dfrac{1}{3}$ × 12 = 4 toffees

3. $\dfrac{1}{4}$ of 8 toy cars = $\dfrac{1}{4}$ × 8 = 2 toy cars.

Chapter Assessment
1. (*c*)　　　　**2.** (*c*)　　　　**3.** (*b*)

4. (*a*) $\dfrac{1}{4}$　　(*b*) $\dfrac{1}{2}$　　(*c*) $\dfrac{3}{4}$

　(*d*) $\dfrac{1}{3}$　　(*e*) $\dfrac{1}{4}$　　(*f*) $\dfrac{1}{4}$

　(*g*) $\dfrac{1}{2}$　　(*h*) $\dfrac{1}{3}$

Brain Sizzlers (Page 136)
Fraction of biscuits received by each = $\dfrac{3}{9}$ = $\dfrac{1}{3}$
Each one received 3 biscuits.

CHAPTER 8 : SHAPES AND PATTERNS

Get Ready

1. (*d*) 2. (*c*)
3. (*a*) 4. (*b*)

Practice Time 8A

1. When light falls on an opaque object its shadow is farmed on the other side on a screen.
2. Under the shadow of a tree.
3. Do it yourself.
4. Circles = 5, squares = 2, Rectangles = 13, Triangles = 5
5. (*a*) A square has 4 sides and 4 vertices.
   (*b*) All the sides of a square are equal.
   (*c*) A triangle has 3 sides and 3 vertices.
   (*d*) A rectangle has 4 sides and 4 vertices.
   (*e*) A circle has no sides and no corners.

Practice Time 8B

1. Do it yourself.
2. Horizontal lines: 2   Vertical lines: 1
   Slanting lines: 4
3. (*i*) Test-tube   (*ii*) Chair

Think and Answer (Page 145)

1. No corners: Ball, coin
2. 1 corner: Birthday cap, ice-cream cone
3. 2 edges: Juice can, glass
4. 6 faces: Matchbox, almirah.

Practice Time 8C

1. (*a*) One Cubical object: Dice
   (*b*) One Spherical object: Tomato
   (*c*) One Cylindrical object: Bottle
   (*d*) One Cuboidal object: Geometry box

2.

Solid Shape	Cube	Cuboid	Cone	Cylinder	Sphere
Faces	6	6	2	3	1
Vertices	8	8	1	0	0
Edges	12	12	1	2	0

Practice Time 8D

2. (*a*) Cube, Cuboid   (*b*) Sphere
   (*c*) Cylinder

Think and Answer (Page 148)

AB BC AB BC AB BC

Practice Time 8E

1. and 2. Do it yourself.
3. (*a*) 6 8 10 12 14 16 18
      (next number = previous number + 2)
   (*b*) 15 18 21 24 27 30 33
      (next number = previous number + 3)
   (*c*) 10 20 30 40 50 60 70
      (next number = previous number + 10)
   (*d*) AB EF IJ MN QR UV YZ
   (*e*) Z X V T R P N

Mental Maths (Page 149)

1. Cube   2. Sphere
3. Rectangle   4. 7

Chapter Assessment

1. (*a*) I am a plane shape. I have three sides. I am a Triangle.
   (*b*) I am a plane shape. I have four equal sides. I am a square.
   (*c*) I am a solid shape. I have one plane face and one curved face. I am a cone.
   (*d*) I am a solid shape. I have two plane faces and one curved face. I am a cylinder.
2. to 4. Do it yourself.
5. (*a*) 1, 3, 5, 7, 9, 11, 13, 15
   (*b*) 5, 10, 15, 20, 25, 30, 35
   (*c*) A, AB, ABC, ABCD, ABCDE, ABCDEF, ABCDEFG
   (*d*) Aa, Bb, Cc, Dd, Ee, Ff, Gg

Brain Sizzlers (Page: 151)

1. 9 rectangles
2.
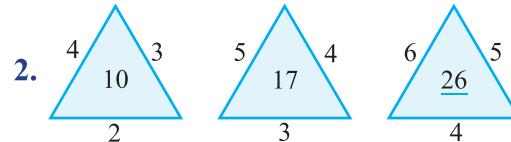
($\because$ 6 × 5 – 4 = 30 – 4 = 26)

CHAPTER 9 : MEASUREMENT

Think and Answer (Page 155)

1. Length of a toothbrush in cm
2. Height of a boy in cm

Detailed Solutions

3. Length of a shoe lace in cm

4. Height of a building in m

Practice Time 9A

1. Do it yourself.

2. (*a*), (*b*) and (*e*)

Practice Time 9B

1. (*a*)

	①		
	5	9	cm
+	3	3	cm
	9	2	cm

(*b*)

	①	①		
		5	6	cm
		2	8	cm
+		2	0	cm
	1	0	4	cm

(*c*)

	①	8	2	m
		4	5	m
+		1	1	m
	1	3	8	m

2. (*a*)

	7	3	cm
−	5	0	cm
	2	3	cm

(*b*)

	⑦	⑰	
	8̸	7̸	cm
−	6	8	cm
	1	9	cm

(*c*)

		⑧	⑮	
	4	9̸	5̸	m
−	1	3	6	m
	3	5	9	m

5. (*a*) Length of red ribbon = 24 cm

Length of blue ribbon = 43 cm

Total length of two ribbons = 24 + 43 = 67 cm

Thus, total length of two ribbons is 67 cm.

	2	4	cm
+	4	3	cm
	6	7	cm

(*b*) Length of first piece of rope = 58 m

Length of second piece of rope = 14 m

Total length of two pieces = 58 m + 14 m = 72 m

Thus, length of the two pieces of rope is 72 m.

	①		
	5	8	m
+	1	4	m
	7	2	m

(*c*) Cloth sold on Monday = 225 m

Cloth sold on Tuesday = 465 m

Difference = 465 − 225 = 240 m

∵ 465 > 225, the man sold 240 m more cloth on Tuesday.

(*d*) Length of first rope = 285 cm

Length of the other rope = 66 cm

Difference of two ropes = 285 − 66 = 219 cm

Thus, difference of two ropes is 219 cm.

	⑦	⑮	
2	8̸	5̸	cm
−	6	6	cm
2	1	9	cm

Practice Time 9C

1. (*a*) A Watermelon   (*b*) A pair of litchi

2. Do it yourself.

3. (*a*) kg   (*b*) g

    (*c*) kg   (*d*) g

4. (*a*) 70 g   (*b*) 40 g   (*c*) 80 g

5. Do it yourself.

Practice Time 9D

1. (*a*)

	①		
	4	6	kg
+	3	4	kg
	8	0	kg

(*b*)

	3	0	0	g
+	2	0	0	g
	5	0	0	g

(*c*)

	①	①		
	1	0	5	kg
+		9	5	kg
	2	0	0	kg

2. (*a*)

	3	4	0	g
−	2	0	0	g
	1	4	0	g

(*b*)

		①	⑭	
	6	2̸	4̸	g
−	3	1	5	g
	3	0	9	g

(*c*)

	⓪	⑫	⑮	
	1̸	3̸	5̸	kg
−		4	8	kg
	0	8	7	kg

3. (*b*) Weight of Preeti = 27 kg

Weight of Mona is 5 kg less than Preeti

Weight of Mona = 27 − 5 = 22 kg

Thus, Mona's weight is 22 kg.

	2	7	kg
−	0	5	kg
	2	2	kg

(*c*) Total weight = 75 kg + 80 kg + 45 kg = 200 kg

Thus, the total weight is 200 kg

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

(d) Weight of first dry-fruit = 400 g
Weight of second dry-fruit = 250 g
Difference in the weights = 150 g
Thus, the difference of weight of two dry-fruits is 150 g.

	③	⑩	
	4̶	0̶	0 g
−		2	5 0 g
		1	5 0 g

Quick Check (Page 165)

2. L 3. mL

4. L 5. mL

Practice Time 9E

1. (a) A bottle of water (b) A tanker of water

3. (a) and (c)

4. (a) 500 mL (b) 300 mL

(c) 750 mL (d) 900 mL

Practice Time 9F

1. (a)

	①		
	4	3	L
+	3	7	L
	8	0	L

(b)

	①	①	
		5	6 L
+		4	5 L
	1	0	1 L

(c)

	①	①	
	3	7	6 mL
+	2	6	8 mL
	6	4	4 mL

2. (a)

	①	⑯	
	2	6	L
−	1	8	L
	0	8	L

(b)

	⑥	⑩	
	7	0	mL
−	1	9	mL
	5	1	mL

(c)

		⑦	⑩	
	3	8̶	0̶	mL
−	2	6	5	mL
	1	1	5	mL

3. (b) First tetra pack of kesar-badam milk = 3 0 0 mL
Another pack of kesar-badam milk = 5 0 0 mL
Both tetra pack of kesar-badam milk = 8 0 0 mL
Thus, both tetra packs of kesar-badam milk hold 800 mL.

(c)
Capacity of the fuel tank of the car
= 12 L + 8 L = 20 L

1	2	L
0	8	L
2	0	L

Thus, capacity of the fuel take of the car is 20 L.

Chapter Assessment

1. (a) 2. (a) and (b) 3. (c)

4. (a) (iv) metre (b) (vi) millilitre

(c) (v) centimetre (d) (iii) gram

(e) (ii) kilogram (f) (i) litre

5. (a)

	7	5	cm
+	1	2	cm
	8	7	cm

(b)

	3	8	kg
−	2	4	kg
	1	4	kg

(c)

		⑬		
④	③	⑩		
	5	4	0	mL
−	2	7	2	mL
	2	6	8	mL

(d)

	①			
	1	2	0	m
+		8	5	m
	2	0	5	m

Brain Sizzlers (Page 168)

1. Shyam bought 8 apples.

Weight of each apple = 150 g

Total weight of apples = (150 × 8) g = 1200 g

Yes, it is more than 1 kg.

2. Distance travelled from house to factory = 400 m

Distance travelled from factory to house = 400 m

Total distance travelled in one day

= 400 + 400 = 800 m

∴ Total distance travelled in 5 days

= 5 × 800 = 4000 m

Mental Maths (Page 169)

1. (a) 1 m = 100 cm

(b) 100 cm + 100 cm = 200 cm = 2 m

Detailed Solutions

(c) 1 kg = 1000 g

(d) $\frac{1}{2}$ kg = $\frac{1}{2}$ × 1000 g = 500 g

(e) $\frac{1}{4}$ L = $\frac{1}{4}$ × 1000 mL = 250 mL

(f) $\frac{1}{2}$ L = $\frac{1}{2}$ × 1000 mL = 500 mL

4. 2 metres = 200 cm

CHAPTER 10 : TIME

Practice Time 10A

1. (a) 3 O'clock, 3:00   (b) 4 O'clock, 4:00
(c) 1 O'clock, 1:00   (d) 10 O'clock, 10:00

2. (a) 6:00 a.m.   (b) 7:00 a.m.
(c) 1:00 p.m.   (d) 5:00 p.m.
(e) 8:00 p.m.   (f) 9:00 p.m.

Practice Time 10B

1. (a) Half past 7, 7:30   (b) Half past 9, 9:30
(c) Half past 4, 4:30   (d) Half past 1, 1:30

3. (b) Half past 5   (c) Half past 6
(d) Half past 11

Practice Time 10C

1. (a) 6:45   (b) 1:15
(c) 5:45   (d) 11:15

Practice Time 10D

1. (a) Sonu rides a cycle on <u>Thursday</u>.
(b) The day after <u>Tuesday</u>, Sonu goes for swimming
(c) On <u>Friday</u>, Sonu plays football.
(d) The day before <u>Sunday</u>, Sonu works in the garden.
(e) On Monday, Sonu plays <u>Cricket</u>.
(f) Sonu enjoys picnic on <u>Sunday</u>.

2. Saturday and Sunday

3. (a) Thursday   (b) Monday
(c) Sunday   (d) Tuesday

4. (a) Saturday   (b) Tuesday
(c) Friday   (d) Monday

Practice Time 10E

1. (a) Friday   (b) Tuesday
(c) Saturday   (d) Tuesday
(e) Friday

2. Friday   **3.** 21 days

Quick Check (Page 178)

1. April, June, September and November

2. January, March, May, July, August, October and December

Think and Answer (Page 178)

1. June, August   **2.** Yes

Practice Time 10F

1. (a) after February March
(b) after March April
(c) after November December
(d) before May April
(e) before August July
(f) before April March
(g) in between May and July June.

2. (a) Thursday   (b) Tuesday
(c) 4   (d) 25th May
(e) 4

Brain Sizzlers (Page 180)

1. (a) 10:30   (b) 12:00   (c) 9:15
2. (a) SPRING   (b) SUMMER
(c) WINTER   (d) AUTUMN

Practice Time 10G

1. (a) Rainy Season   (b) Winter Season

(c) Summer Season   (d) Autumn Season

2. (a) In <u>Summer</u> season, we go to the beach. The weather is hot.

   (b) In <u>Winter</u> season, it snows. The weather is <u>cold</u>.

   (c) In <u>rainy</u> season, it rains. We use <u>umbrella</u>.

   (d) Falling of <u>leaves</u> from the trees can be seen in <u>autumn</u>.

   (e) A variety of <u>flowers</u> bloom in <u>spring</u> season.

3. and 4. Do it yourself

Chapter Assessment

1. (b)   2. (c) Monday

3. (b) 31 days   4. (b) West

5. (a) 2:30   (b) 9:15

   (c) 6:45   (d) 12:30

6. Do it yourself.

7. (a) Month of July comes after June.

   (b) The day two days before Monday is Saturday.

   (c) There are 7 months which have 31 days.

   (d) Our Independence Day is celebrated in the month of August.

CHAPTER 11 : MONEY

Get Ready

1. ₹200 + ₹350 + ₹400 = ₹950

2. ₹200 + ₹200 + ₹100 = ₹500

3. ₹500 − ₹50 = ₹450

Think and Answer (Page 187)

2. ₹110 = ₹50 + ₹50 + ₹10

3. ₹147 = ₹50 + ₹50 + ₹20 + ₹20 + ₹5 + ₹2

Practice Time 11A

1. (a) ₹100 + ₹50 + ₹20 + ₹20 + ₹2 = ₹192

(b) ₹50 + ₹50 + ₹50 + ₹200 + ₹5 + ₹10 + ₹10 = ₹375

(c) ₹500 + ₹100 + ₹100 + ₹100 + ₹5 + ₹5 + ₹5 + ₹5 = ₹820

2. (a) ₹50 + ₹20 + ₹10 + ₹5 + ₹2 = ₹87

   (b) ₹20 + ₹10 + ₹10 + ₹5 = ₹45

   (c) ₹10 + ₹10 + ₹2 + ₹2 = ₹24

Practice Time 11B

1. (b) We can exchange a 100-rupee not for ten 10-rupee notes.

   (c) We can exchange a 100-rupee note for five 20-rupee notes.

   (d) We can exchange a 200-rupee note for four 50-rupee notes.

2. (a) ₹12 = ₹5 + ₹5 + ₹2, ₹5 + ₹5 + ₹1 + ₹1, ₹5 + ₹2 + ₹2 + ₹2 + ₹1, ₹2 + ₹2 + ₹2 + ₹2 + ₹2 + ₹2

   (b) ₹15 = ₹5 + ₹5 + ₹5, ₹5 + ₹5 + ₹2 + ₹2 + ₹1, ₹5 + ₹2 + ₹2 + ₹2 + ₹2 + ₹2, ₹5 + ₹5 + ₹2 + ₹1 + ₹1 + ₹1

Practice Time 11C

1. (a)   ₹189 + ₹50 = ₹239

		①		
₹		1	8	9
+ ₹			5	0
₹		2	3	9

(b)   ₹110 + ₹68 + ₹22 = ₹200

		①	①	
₹		1	1	0
₹			6	8
+ ₹			2	2
₹		2	0	0

2. (b)

	②	⁹10̸	⑩
₹	3̸	0̸	0̸
− ₹		2	7	5
₹		0	2	5

(c)

		④	⑩
₹	1	5̸	0
− ₹	1	4	8
₹	0	0	2

3. (*a*)

		①		
Cost of pen =	₹		2	2
Cost of notebook =	₹		3	5
Cost of textbook = +	₹		9	0
Total cost of these items =	₹	1	4	7

Thus, Lata paid ₹147 in all.

(*b*)

		⑥	⑮	
Cost of water bottle =	₹	7̸	5̸	
Amount of money Anjali has = −	₹		4	6
Required money =	₹		2	9

Thus, Anjali needs ₹29 more to buy the water bottle.

(*c*)

		①	①	
Cost of sweets =	₹	1	2	0
Cost of crackers =	₹		8	4
Cost of candles = +	₹		3	6
Total cost of these items =	₹	2	4	0

Thus, Nisha spent ₹240 in all.

(*d*)

		⑦	⑩	
Amount of money Rohit has =	₹	8	0	
Cost of joker cap = −	₹	5	5	
Money left =	₹	2	5	

Thus, ₹25 was left with Rohit.

Chapter Assessment

1. (*a*) ₹5 × 3 = ₹15   **2.** (*d*) ₹10 × 20 = ₹200

3. (*c*) ₹20 + ₹10 + ₹1 + ₹1 = ₹32

4. (*a*)

Total

		①		
	₹	1	7	0
+	₹		6	0
	₹	2	3	0

Difference

₹	1	7	0
− ₹		6	0
₹	1	1	0

(*b*)

Total

₹	1	5	4
+ ₹	2	2	5
₹	3	7	9

Difference

	①	⑫	
₹	2̸	2̸	5
− ₹	1	5	4
₹	0	7	1

Mental Maths (Page 193)

1.

Drawing book =	₹	3	0
Eraser = +	₹		5
Total =	₹	3	5

2. Fevicols = 2 × ₹25 = ₹50

3. Pencil box = ₹55,
Water colours = ₹80,
Fevicol = ₹25
Total = ₹55 + ₹80 + ₹25
= ₹160

		①	①	
₹		5	5
₹		8	0
+ ₹		2	5
₹	1	6	0

CHAPTER 12 : DATA HANDLING

Get Ready

1. 12   **2.** 8 − 3 = 5

3. 6 + 5 = 11

Practice Time 12A

2. (*a*) Least number of eggs = 70 = <u>Thursday</u>

(*b*) Most number of eggs = 200 = <u>Saturday</u>

(*c*) Same number of eggs = 180 = <u>Monday and Sunday</u>.

Practice Time 12B

1.

Frocks	Shirts/T-shirts	Sweaters	Jackets	Pants/Skirts
2	8	3	5	5

2.

Drawing	Dancing	Reading	Watching TV	Playing
5	8	6	10	12

(*a*) Playing   (*b*) Drawing   (*c*) 8

Chapter Assessment

1. Grey   **2.** White

3. $8 + 9 + 10 + 6 + 12 = 45$

4. $8 - 6 = 2$

Brain Sizzlers (Page 201)

1. 15 crayons $\times$ 2 = 30 crayons

2. $30 - 10 + 5 = 25$

3. $2 \times 15 - 10 = 20$

4. $15 + 30 + 20 + 25 = 90$

MODEL TEST PAPER – 2

1. (*b*) June   **2.** (*c*) 9:00

3. (*a*) 35, 34, 33, 32, 31, 30

4. (*b*) The month of <u>February</u> has 28 days in a year.

5. (*b*) Blanket

6. (*b*) 1 mug = 3 glasses of water

10 mugs = (3 $\times$ 10) glasses of water = 30

7. (*b*) Triangle   **8.** (*b*) $\dfrac{1}{3}$

9. (*c*) 8   **10.** (*b*) ₹5 $\times$ 4 = ₹20

11. $\dfrac{1}{4}$ **12.** Do it yourself

13. (*a*) Sides = 3, corners = 3

(*b*) Sides = 4, corners = 4

(*c*) Sides = 4, corners = 4

14.

		₹		
Cost of Candy =		₹	3	0
Cost of toy =	+	₹	4	5
Total cost of both items =		₹	7	5

Money left =

		₹	⁹⁄₁	⁰⁄₁₀	⁰⁄₁₀
	−	₹		7	5
Thus, ₹25 was left with him.		₹		2	5

15. (*a*) $12 + 4 + 5 + 6 + 3 = 30$

(*b*) Bus; 12   (*c*) Car; 3

16. Do it yourself.