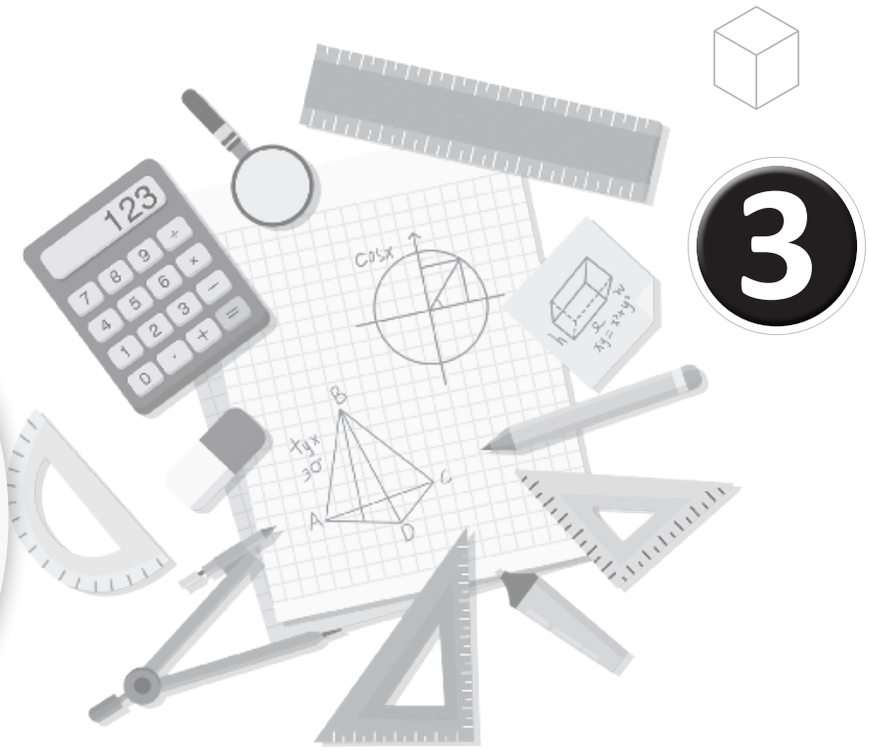
Best Way's book of

MATHEMATICS

ANSWER KEY

3



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1 Numbers and Numerations

Get Started

1. (a)

H	T	O
2	5	2

2

5 × 10 = 50

2 × 100 = 200

= 200 + 50 + 2 = 252

Two hundred fifty two

(b)

H	T	O
3	1	4

4

1 × 10 = 10

3 × 100 = 300

= 300 + 10 + 4

Three hundreds fouteen

(c)

H	T	O
4	5	9

9

5 × 10 = 50

4 × 100 = 400

= 300 + 10 + 4

Four hundred fifty nine

(d)

H	T	O
6	6	5

5

6 × 10 = 60

6 ×100 = 600

= 600 + 60 + 5

Six hundred sixty five

Exercise 1.1

1. (a) 1000 + 500 + 30 + 7

Th	H	T	O
1	5	3	7

= One thouand five hundred thirty seven.

(b) 3000 + 200 + 20 + 4

Th	H	T	O
3	2	2	4

= Three thousand two hundred twenty four

(c) 3000 + 400 + 50 + 7

Th	H	T	O
3	4	5	7

= Three thousand four hundred fifty seven.

(d) 5000 + 0 + 90 + 9

Th	H	T	O
5	0	9	9

2. (a) 6000 + 200 + 40 + 0

Th	H	T	O
6	2	4	0

(b) 1000 + 300 + 20 + 5

Th	H	T	O
1	3	2	5

(c) 8000 + 700 + 0 + 0

Th	H	T	O
8	7	0	0

(d) 5000 + 0 + 90 + 9

Th	H	T	O
5	0	9	9

3. (a) 4397 = 4000 + 300 + 90 + 7

Four thousand three hundred ninety-seven

(b) 8290 = 8000 + 200 + 90

Eight thousand two hundred ninety

(c) 6035 = 6000 + 0 + 30 + 5

Six thousand thirty-five

(d) 7400 = 7000 + 400 + 0 + 0

Seven thousand four hundred

(e) 9308 = 9000 + 300 + 0 + 8

Nine thousand three hundred eight

4. (a) 4629, 4630, 4631, 4632, 4633, 4634, 4635
[Addition of 1]

(b) 4444, 4445, 4446, 4447, 4448, 4449, 4450
[Addition of 1]

(c) 7000, 7001, 7002, 7003, 7004, 7005, 7006
[Addition of 1]

5. (a)

Th	H	T	O
5	4	3	6

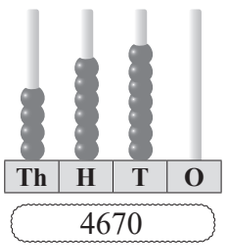
(b)

Th	H	T	O
4	0	6	3

(c)

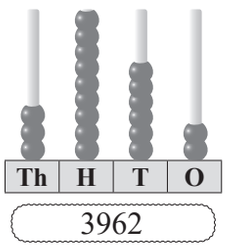
Th	H	T	O
7	9	2	5

6. (a)



4670

(b)



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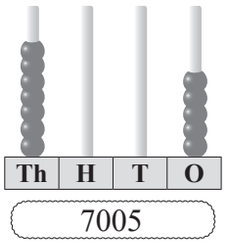
(c)



7005

Exercise 1.2

1. (a)

Th	H	T	O
4	6	5	9

Digit × Place = Place Value

9

5 × 10 = 50

6 × 100 = 600

4 × 1000 = 4000

(b)

Th	H	T	O
5	5	0	8

Digit × Place = Place Value

8

0 × 10 = 00

5 × 100 = 500

5 × 1000 = 5000

(c)

Th	H	T	O
6	0	8	7

Digit × Place = Place Value

7

8 × 10 = 80

0 × 100 = 000

6 × 1000 = 6000

2. (a) 4000 + 200 + 50 + 4 = 4254

(b) 7000 + 700 + 70 + 7 = 77777

(c) 6000 + 000 + 50 + 3 = 6053

3.

	Place	Place Value(Face value × Place)	Face Value
(a)	Tens	20	2
(b)	Thousands	7000	7
(c)	Ones	9	9
(d)	Hundreds	300	3

4. (a)

Th	H	T	O
9	3	4	2

2 ones or 2

4 tens or 40

3 hundreds or 300

9 thousands or 9000

Expended form = 9 thousands + 3 hundreds + 4 tens + 2 ones

= 9000 + 300 + 40 + 2

(b)

Th	H	T	O
2	5	7	0

0 ones or 0
7 tens or 70
5 hundreds or 500
2 thousands or 2000

Expanded form = 2 thousands + 7 hundreds + 4 tens + 0 ones

= 2000 + 500 + 70 + 0

(c)

Th	H	T	O
1	0	8	0

0 ones or 0
8 tens or 80
0 hundreds or 0
1 thousands or 1000

Expanded form: 1 thousands + 0 hundreds + 8 tens + 0 ones

= 1000 + 0 + 80 + 0

= 1080

(d)

Th	H	T	O
2	7	2	9

9 ones or 9
2 tens or 20
7 hundreds or 700
2 thousands or 2000

Expanded form: 2 thousands + 7 hundreds + 2 tens + 9 ones

= 2000 + 700 + 20 + 9

= 2729

5. (a) 3960 (b) 7214 (c) 2050 (d) 4091

Exercise 1.3

1. (a) 937 > 84 (3 digit > 2 digit)

(b) 335 < 2198 (3 digits < 4 digits)

(c) 2146 < 6359

(d) 1400 < 2500

(e) 7290 > 6281

(f) 3401 < 9008

2. (a) 7084, 7764, 7450, 7809
[0 < 4 < 7 < 8]

(b) 8209, 7989, 9387, 2087
[2 < 7 < 8 < 9]

(c) 9843, 8792, 5478, 8333
[5 < 8 < 8 < 9] [7 > 3]

(d) 7449, 4349, 4549, 7949
[7 < 7 < 4 < 4] [7449 < 7949; 4 < 9]
[4349 < 4549; 3 < 5]

3. (a) 82 + 18 < 700 – 30

100 < 670

(b) 728 – 8 > 90 × 3

700 > 270

(c) 200 + 4 = 204

(d) 7234 < 7000 + 300 + 20 + 4

7234 < 7324

4. Runs scored by Aman < Runs scored by Neeraj < Runs scored by Rajeev

4307 < 4326 < 4678

[6 > 3]

4307 < 4326

(a) Rajeev (b) Aman

Exercise 1.4

1. (a) Crossing out the smallest number 938, 7240, 203 → 16

938, 7240 → 16, 203

7240 → 16, 203, 938

→ 16, 203, 938, 7240

Thus, ascending order of the given number is 16, 203, 938, 7240

(b) Crossing out the smallest number 4444, 4409, 5400 → 2000

9409, 5400 → 2000, 4444

9409 → 2000, 4444, 5400

→ 2000, 4444, 5400, 9409

Thus, the ascending order of the give numbers. 2000, 4444, 5400, 9409

(c) Crossing out the smallest number 8001, 7202, 7340 → 6004

8001, 7340 → 6004, 7202

8001 → 6004, 7202, 7340 → 6004, 7202, 7340, 8001

Thus, ascending order of the given number is 6004, 7202, 7340, 8001

2. (a) Cross out the greatest number 4731, 2870, 73 → 9300

2870, 73 → 9300, 4731

73 → 9300, 4731, 2870, 73

Thus, the ascending order of the given numbers is 9300, 4731, 2870, 73

(b) Crossing out the greatest number 6119, 5109, 902 → 7200

5109, 902 → 7200, 6119

902 → 7200, 6119, 5109 → 7200, 6119, 5109, 902

Thus, the ascending order of the given numbers 7200, 6119, 5109, 902

(c) Crossing out the greatest number 4600, 7210, 7400 → 9999

4600, 7210 → 9999, 7400

4600 → 9999, 7400, 7210 → 9999, 7400, 7210, 4600

Thus, the ascending order of the given numbers 9999, 7400, 7210, 4600

Exercise 1.5

1. Predecessor = Number – 1

(a)

685 – 1 = 684	685

(b)

7038 – 1 = 7037	7038

(c)

9630 – 1 = 9629	9630

(d)

2089 – 1 = 2088	2089

(e)

8000 – 1 = 7099	8000

(f)

5700 – 1 = 5699	5700

2. Successor = Number + 1

(a)

756	756 + 1 = 757

(b)

8963	8963 + 1 = 8964

(c)

1600	1600 + 1 = 1601

(d)

6846	6846 + 1 = 6847

(e)

5499	5499 + 1 = 5500

(f)

6009	6009 + 1 = 6010

3.

	Predecessor [Number –1]	Number [Predecssor +1] [Successor –1]	Successor [Number +1]
(a)	**600**	600 + 1 = 601	601 + 1 = 602
(b)	6030 – 1 = 6029	6030 – 1 = 6030	**6031**
(c)	9365 – 1 = 9365	**9366**	9366 + 1 = 9367
(d)	**5989**	5989 + 1 = 5990	5990 + 1 = 5991

4. (a) Greatest 2-digit number: 99

Succersor of Greatest 2-digit number: 99 + 1 = 100

100 is a 3 digit number hence, the smallest 1-digit number is not the succesor of the greatest 2-digit number.

(b) Smallest 3-digit number: 100

Predecessor of 3-digit number: 100 – 1 = 99

99 → Greatest 2-digit number is the predcessor of smallest 3-digit number.

(c) Greatest 3 digit number: 999

Successor of greatest 3 digit number: 999 + 1 = 1000

1000 → Smallest 4-digit number Hence, the smallest 4-digit number is the successor of greatest 3-digit number.

5. Odd numbers: Number with one's digit as 1, 3, 5, 7 and 9

483, 790, 2926, 6039, 3850

7805, 469, 4834, 5039, 2400

6. (a) Even number: Numbers with one's digit as 0, 2, 4, 6, 8.

6461, 3264, 9879, 1307, 5365, 2078, 2982, 6000, 3030, 1429

7. (a) 206 and 213

206: Even number

Even number + Even number = Even

206 + 2 = 208, 208 + 2 = 210, 210 + 2 = 212

Hence, three even numbers between 206 and 213 are 208, 210 and 212

(b) 4362 and 4369

4362 = Even number

Even number + Even number = Even

4362 + 2 = 4364, 4364 + 2 = 4366, 4366 + 2 = 4368

Hence, three even numbers between 4362 and 4369 are 4364, 4366 and 4368

(c) 7308 and 7315

7305 = even number

Even number + Even number = Even

7308 + 2 = 7310, 7310 + 2 = 7312, 7312 + 2 = 7314

Hence, three even numbers between 7308 and 7315 are 7310, 7312 and 7314

8. (a) 329 and 337

329: odd number

Odd number + Even number = Odd number

329 + 2 = 331, 331 + 2 = 333, 333 + 2 = 335

(b) 2041 2041 and 2048

2041: Odd number

Odd number + Even number = Odd number

2041 + 2 = 2043

2043 + 2 = 2045

2045 + 2 = 2047

(c) 7777 and 7784

7777: Odd number

Odd number + Even number = Odd number

7777 + 2 = 7779, 7779 + 2 = 7781

7781 + 2 = 7783

Exercise 1.6

1.

	Digits	Smallest Number	Greatest number
(a)	9, 4, 7, 3	Ascending order: 3, 4, 7, 9 = 3479	Desending order of the digits: 9, 7, 4, 3 = 9743

(b)	8, 9, 2, 6	Ascending order: 2, 6, 8, 9 = 2689	Desending order of the digits: 9, 8, 6, 2 = 9862
(c)	2, 5, 1, 4	Asending order: 1, 2, 4, 5 = 1245	Desending order of the digits: 5, 4, 2, 1 = 5421
(d)	5, 4, 0, 6	Asending order: 0, 4, 5, 6 = 4056	Desending order of the digist: 6, 5, 4, 0 = 6540

2. (a)

Th	H	T	O
5	9	2	3

(b)

Th	H	T	O
9	1	0	5

(c)

Th	H	T	O
3	7	2	4

3. 8,0,9,6: Ascending order 0,6,8,9

Smallest 4-digit number: 6089

Descending order of the digit using the given digit : 9, 8, 6, 0

Greatest 4-digit number using the given digits: 9860

(a) 9860, 0689, 9806, 6089

0689 is not an appropriate number as we put 0 at the second place from the left. Then we fill the remaining place from left to right by the remaining digits in an ascending order.

(b) Geeta has made the correct Greatest number

(c) Sohan has made the correct Smallest number

Learning Updates

1. (a) 1213: One thousand two hundred thirteen

(b) 9836: Nine thousand eight hundred thirty six

(c) 3007: Three thousand seven

(d) 8888: Eigth thousand Eigth hundred eighty eight.

2 (a) 2352

(b) 9011

3. (a) 5076

Tens place = 7 × 10 = 70

(b) 7475

Thousands place = 7 × 1000 = 7000

(c) 3789

Hundreds place = 7 × 100 = 700

4. (a) 5883 > 5663

(b) 8088 < 8880

(c) 7801 > 7010

5. (a) 6032, 6300, 6039, 6030

6030 < 6**032** < 6**039** < 6**300** [3 > 0], [0 < 2 < 9]

(b) 7701, 7071, 7170, 7107

7**0**71 < 71**0**7 7**1**70 < 77**0**1

[0 < 0 < 1 < 7]

7**0**71 < 7**10**7 < 7170 [0 < 1]

71**0**7 < 71**7**0 [0 < 7]

6. (a) 8**8**01, 8**0**31, 8**1**30, 8**9**07

8910 > 8801 > 8130 > 8**0**31 [9 > 8 > 1 > 0]

(b) **3**564, **4**003, 986, **9**078

9078 > 4003 > 3564 > 986 [4-digit number > 3-digit number]

7. (a)

Th	H	T	O
2	6	8	9

Th	H	T	O
9	8	3	9

(b)

T	O
1	7

(c)

H	T	O
5	7	5

8. (a) 1Ten

(b) 1 hundred

(c) 1 thousand

(d) 10 tens

9. (a) 5895, 5900, 5905, 5910, 5915, 5920 [Addition of 5]

(b) 3182, 3184, 3186, 3188, 3190 [Addition of 2]

10.

	Predecessor [Number - 1]	Number	Successor [Number + 1]
(a)	4000 – 1 = 3999	4000	4000 + 1 = 4001
(b)	7672 – 1 = 7671	7672	7672 + 1 = 7673
(c)	7989 – 1 = 7988	7989	7989 + 1 = 7990

11.

	Number	Smallest Number	Greatest Number
(a)	2, 9, 1, 7	Ascending oreder of the digits: 1, 2, 7, 9 = 1279	Desdending order of the digits: 9, 7, 21 = 9721
(b)	0, 6, 7, 4	Descending order of the digits: 0, 4, 6, 7 = 4067	Desending order of the digits: 7, 6, 4, 0 = 7640

Multiple Choice Questions

1. 4860

Tens place

Place Value = 6 tens

= 6 × 10 = 60

(b) 60

2. (b) 7295

Tens place = 9

9 > 2

3. Descending order of the given digit

Greatest 3-digit number that is 6, 2, 0 formed by using these digits = 620.

(b) 620

4. 470, 455, 440, 425, 410, 395 [Subtraction of 15]

(c) 395

Fill in the Blanks

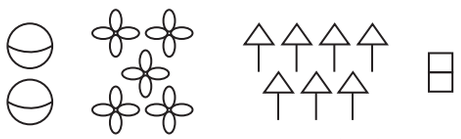
1. 40 ones = 40 × 1 = 40

2. 20 tens = 20 × 10 = 200

3. 70 hundreds = 70 × 100 = 7000

Skills Check

1. (a)



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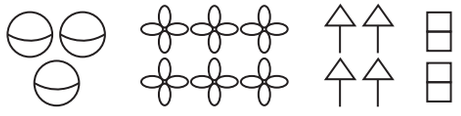

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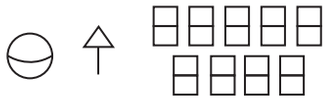


2. (a) 4-digit number =

Th	H	T	O

(b) Even number between 5 and 8 is 6

Tens digit = 6

(c) Smallest even 1 digit number = 0

Hundreds Place = 0

(d) Smallest 1-digit odd number = 1

Thousand place = 1

(e) Half of digit at tens place

Half of 6 = 3

Ones place = 3

Digit =

Th	H	T	O
1	0	6	3

2 Addition

Get Started

1.

	22	⟶	20 + 2
+	35	⟶	30 + 5
Sum →	57		50 + 7

Answer: 57

2.

	32	⟶	30 + 2
+	45	⟶	40 + 5
Sum →	77		70 + 7

Answer: 77

3.

	16	⟶	10 + 6
+	32	⟶	30 + 2
Sum →	48		40 + 8

Answer: 48

4.

	55	⟶	50 + 5
+	32	⟶	30 + 2
Sum →	87		80 + 7

Answer: 87

5.

	71	⟶	70 + 1
+	26	⟶	20 + 6
Sum →	97		90 + 7

Answer: 97

6.

	28	⟶	25 + 3
+	24	⟶	20 + 4
Sum →	52		45 + 7

Answer: 52

Exercise 2.1

1. (a)

	7	0	2
+	1	0	4
	8	0	6

Answer: 806

(b)

	5	2	3
+	4	2	6
	9	4	9

Answer: 949

(c)

	2	7	2
+	4	0	3
	6	7	5

Answer: 675

(d)

	4	3	2
+	1	3	0
	5	6	2

Answer: 562

(e)

	6	6	2
+	3	2	3
	9	8	5

Answer: 985

(f)

	7	3	5
+	1	1	4
	8	4	9

Answer: 849

2. (a)

	①		
	1	6	2
+	2	9	4
	4	5	6

Answer: 456

(b)

	①		
	5	7	3
+	1	8	2
	7	5	5

Answer: 755

(c)

	①	①	
	2	7	6
+	2	4	8
	5	2	4

Answer: 524

(d)

		①	
	3	3	7
+	4	1	6
	7	5	3

Answer: 753

(e)

		①	
	5	6	9
+	3	1	9
	8	8	8

Answer: 888

(f)

	①	①	
	7	9	6
+	3	4	8
1	1	4	4

Answer: 1144

3. (a)

	①	①	
	6	3	2
+	3	9	8
1	0	3	0

Answer: 1030

(b)

	5	3	6
+	2	4	3
	7	7	9

Answer: 779

(c)

	①	①	
	3	2	6
+	2	9	7
	6	2	3

Answer: 623

(d)

		①	
	1	4	5
+	9	6	8
1	1	1	3

Answer: 1113

(e)

	①	①	
	4	3	6
	2	4	3
+	3	6	4
1	0	4	3

Answer: 1043

(f)

	①	①	
	5	3	7
	3	6	4
+	2	6	4
1	1	6	5

Answer: 1165

Exercise 2.2

1. (a)

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

Answer: 7975

(b)

	1	2	4	5
+	2	6	3	4
	3	8	7	9

Answer: 3879

(c)

	3	4	2	0
+	6	5	4	7
	9	9	6	7

Answer: 9967

(d)

	1	3	4	5
+	6	3	2	3
	7	6	6	8

Answer: 7668

2. (a)

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

Answer: 4699

(b)

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

Answer: 7899

(c)

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

Answer: 5969

(d)

	2	1	3	1
+	6	3	4	5
+	1	4	0	2
	9	8	7	8

Answer: 9878

3. (a)

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

Answer: 3322

(b)

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

Answer: 4699

(c)

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

Answer: 4726

(d)

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

Answer: 5966

(e)

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

Answer: 8377

(f)

	Th	H	T	O
		①		
	3	0	4	5
+	1	2	4	2
+		1	2	0
	4	4	0	7

Answer: 4407

(g)

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

Answer: 5688

(h)

	Th	H	T	O
	4	0	3	1
+	1	0	5	6
+		2	0	0
	5	2	8	7

Answer: 5287

(i)

	Th	H	T	O
	5	3	3	3
+	1	1	2	0
+	2	0	2	0
	8	4	7	3

Answer: 8473

Exercise 2.3

1. (a)

	①	①		
	5	0	8	7
+	2	8	6	4
	7	9	5	1

Answer: 7951

(b)

	①	①	①	
	5	4	2	9
+	2	5	8	9
	8	0	1	8

Answer: 8018

(c)

		①		
	4	3	5	6
+	5	4	8	0
	9	8	3	6

Answer: 9836

(d)

	①	①	①	
	6	9	4	5
+	2	0	6	9
	9	0	1	4

Answer: 9014

(e)

	①	①	①	
	3	5	8	7
+	3	7	7	4
+	2	3	3	6
	9	6	9	7

Answer: 9697

(f)

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

Answer: 7324

(g)

	①	①	①	
	2	5	6	0
+	3	0	5	9
+	1	5	4	1
	7	1	6	0

Answer: 7160

(h)

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

Answer: 7542

2. (a)

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

Answer: 7383

(b)

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

Answer: 5036

(c)

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

Answer: 8125

(d)

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

Answer: 6863

(e)

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

Answer: 2622

(f)

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

Answer: 8637

Exercise 2.4

1. (a) **36** + 0 = 36

(b) 473 + **0** = 473

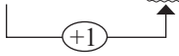
(c) 4395 + 1 = **4396** **(successor of 4395)**

(d) 271 + **2** = 273

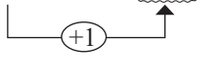
(e) **1** + 162 = 163 **(successor of 162)**

(f) 6369 + **1** = 6370 **(successor of 6370)**

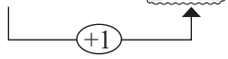
2. (a) 42 + 10 = **52**



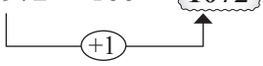
(b) 113 + 10 = **123**



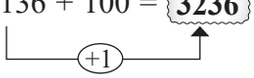
(c) 9345 + 10 = **9355**



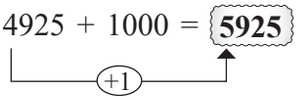
(d) 972 + 100 = **1072**



(e) 3136 + 100 = **3236**



(f) 4925 + 1000 = **5925**



3. (a) 23 + **23** = 46 (b) **20** + 55 = 75

(c) 103 + **100** = 203

(d) 2362 + **100** = 2462

(e) 7040 + **100** = 7140

(f) **7000** + 1736 = 8736

Exercise 2.5

1. Number of flowers gardener plucked from 1st garden = 245

Number of flower gardener plucked from 2nd garden = 395

Number of flowers plucked from 1st garden + Number of flowers plucked from 2nd garden

= 245 + 395

		①	①	
		2	4	5
+		3	9	5
		6	4	0

Total number of flowers gardener plucked = 640

Answer: The total number of flower gardener plucked are 640.

2. Number of ice-cream of chocolate flavour = 250

Number of ice-cream of vanilla flavour = 385

Number of ice-cream of strawberry flavour = 784

Total number of ice-cream = Numbers of chocolate flavoured ice-creams + vanilla flavoured + Strawberry flavoured ice-creams.

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

Answer: The total number of ice-creams, the ice-cream parlour have is 1419.

3. Number of men in colony = 2658

Number of women in colony = 2257

Number of children in colony = 3445

Total population of the colony = Number of children + men + women

	①	①	②	
	2	6	5	8
	2	2	5	7
+	3	4	4	5
	8	3	6	0

Answer: Total population of the colony is 8360.

4. Number of cows = 2816

Number of buffaloes = 4672

Number of goats = 898

Total number of cattle = Number of Cows + Buffaloes + Goats.

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

Answer: There are 8386 cattles in the village.

5. Number of wheat produced = 2840kg

Number of barley produced = 3609kg

Number of rice produced = 2935kg

	②		①	
	2	8	4	0
	3	6	0	9
+	2	9	3	5
	9	3	8	4

Total prouction = Total number of wheat produced + Barley Produced + Rice produced

Answer: Total production is year 2021 was 9384kg.

Learning Updates

1. (a)

		①		
	7	6	4	
+	4	0	9	
1	1	7	3	

Answer: 1173

(b)

		①		
	4	2	4	
+	8	9	0	
1	3	1	4	

Answer: 1314

(c)
$$\begin{array}{r} {\scriptstyle ①\,①\,①} \\ 3\,7\,8\,3 \\ +\;4\,4\,1\,8 \\ \hline 8\,2\,0\,1 \end{array}$$
Answer: 8201

(d)
$$\begin{array}{r} {\scriptstyle ①\,①} \\ 7\,0\,6\,9 \\ +\;\;4\,8\,9 \\ \hline 7\,5\,5\,8 \end{array}$$
Answer: 7558

2. (a)
$$\begin{array}{r} {\scriptstyle ①} \\ 1\,2\,3 \\ +\;8\,9\,3 \\ \hline 1\,0\,1\,6 \end{array}$$
Answer: 1016

(b)
$$\begin{array}{r} {\scriptstyle ①\,①} \\ 6\,6\,7 \\ +\;3\,5\,8 \\ \hline 1\,0\,2\,5 \end{array}$$
Answer: 1025

(c)
$$\begin{array}{r} {\scriptstyle ①\;\;①} \\ 1\,2\,0\,3 \\ +\;\;9\,3\,8 \\ \hline 2\,1\,4\,1 \end{array}$$
Answer: 2141

(d)
$$\begin{array}{r} {\scriptstyle ①} \\ 1\,9\,0\,5 \\ +\;1\,8\,4\,4 \\ \hline 3\,7\,4\,9 \end{array}$$
Answer: 3749

(e)
$$\begin{array}{r} {\scriptstyle ①\,①} \\ 5\,3\,8\,7 \\ +\;1\,5\,9\,3 \\ \hline 6\,9\,8\,0 \end{array}$$
Answer: 6980

(f)
$$\begin{array}{r} 3\,4\,0\,2 \\ +\;6\,1\,4\,4 \\ \hline 9\,5\,4\,6 \end{array}$$
Answer: 9546

3. (a)
$$\begin{array}{r} {\scriptstyle ①} \\ 6\,8\,\boxed{5}\,3 \\ +\;2\,2\,1\,\boxed{4} \\ \hline \boxed{9}\,\boxed{0}\,6\,7 \end{array}$$
Answer: 9067

(b)
$$\begin{array}{r} {\scriptstyle ①\,①} \\ 1\,3\,6\,\boxed{5} \\ +\;5\,4\,\boxed{3}\,5 \\ \hline \boxed{6}\,8\,0\,0 \end{array}$$
Answer: 6800

(c)
$$\begin{array}{r} {\scriptstyle ①\,①\,①} \\ 3\,\boxed{5}\,1\,\boxed{3} \\ +\;\boxed{2}\,4\,8\,9 \\ \hline 6\,0\,\boxed{0}\,2 \end{array}$$
Answer: 6002

(d)
$$\begin{array}{r} {\scriptstyle ①\;\;①} \\ \boxed{2}\,3\,8\,4 \\ +\;2\,8\,0\,\boxed{7} \\ \hline 5\,\boxed{1}\,9\,1 \end{array}$$
Answer: 5191

4. (a) Amount of money with Mr. kumar = ₹8095

More money Mr.Kumar required to buy a mobile phone = ₹196

Cost of mobile phone = Amount with Mr. kumar + More money required

$$\begin{array}{r} {\scriptstyle ①\,①} \\ 8\,0\,9\,5 \\ +\;\;1\,9\,6 \\ \hline 8\,2\,9\,1 \end{array}$$

Answer: Cost of mobile phone is ₹8291

(b) Number of passanger metro had: 958

Number of passengers boarded the train on the next station 145

Total number of passengers in the metro: Number of passengers metro already had + Number of passengers boarded the train on next station.

$$\begin{array}{r} {\scriptstyle ①\,①} \\ 9\,5\,8 \\ +\;1\,4\,5 \\ \hline 1\,1\,0\,3 \end{array}$$

Answer: Total number of passenger metro have are 1103.

Multiple Choice Questions

1.
$$\begin{array}{r} {\scriptstyle ①} \\ 3\,9\,5 \\ +\;\;1\,0 \\ \hline 4\,0\,5 \end{array}$$
Answer: (b) 405

2.
$$\begin{array}{r} {\scriptstyle ①} \\ 9\,2\,9 \\ +\;\;\;\;1 \\ \hline 9\,3\,0 \end{array}$$
Answer: (b) False

3.
$$\begin{array}{r} 2\,5\,6\,3 \\ +\;0\,0\,0\,0 \\ \hline 2\,5\,6\,3 \end{array}$$
Answer: (c) 2563

4. Greatest 3-digit number = 999

Greatest 3-digit number + 12 = 999 + 12

$$\begin{array}{r} {\scriptstyle ①\,①} \\ 9\,9\,9 \\ +\;\;1\,2 \\ \hline 1\,0\,1\,1 \end{array}$$
Answer: (c) None of these

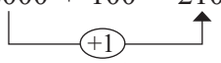
5. 3867 + 500 + 40 + 6 = 4413

4200 + 10 + 200 + 13 = 4413

4413 = 4413

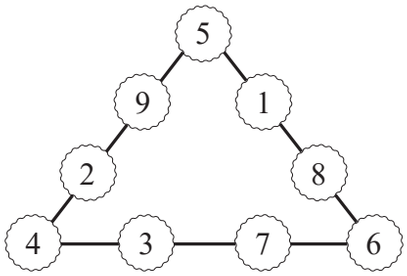
Answer: (c) 4200 + 10 + 200 + 3

6. 2000 + 100 = 2100



Answer: (b) 2100

Skills Check



3 Subtraction

Get Started

1.

		2	16
	7	~~3~~	~~6~~
–	1	0	7
	6	2	9

Answer: 629

2.

		4	10
	3	~~5~~	~~0~~
–	1	4	9
	2	0	1

Answer: 201

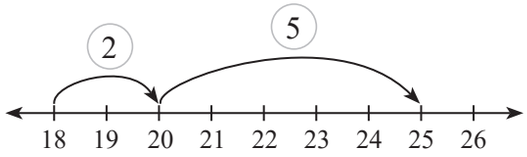
3.

		4	13
	8	~~5~~	~~3~~
–	4	2	7
	4	2	6

Answer: 426

Exercise 3.1

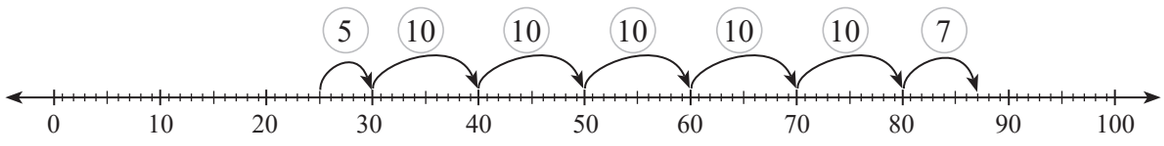
1. (a)



2 + 5 = 7

Answer: 25 – 18 = **7**

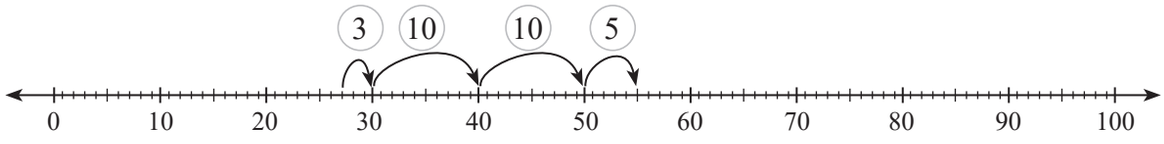
(b)



5 + 10 + 10 + 10 + 10 + 10 + 7 = 62

Answer: 87 – 25 = **62**

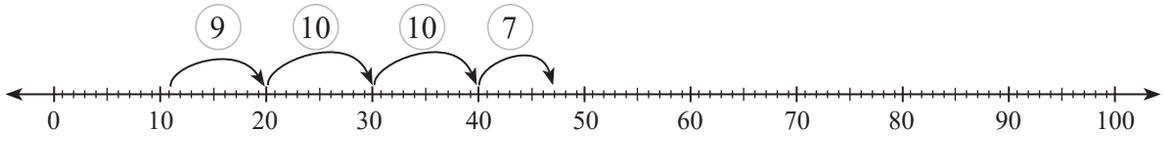
(c)



3 + 10 + 10 + 5 = 28

Answer: 55 – 27 = **28**

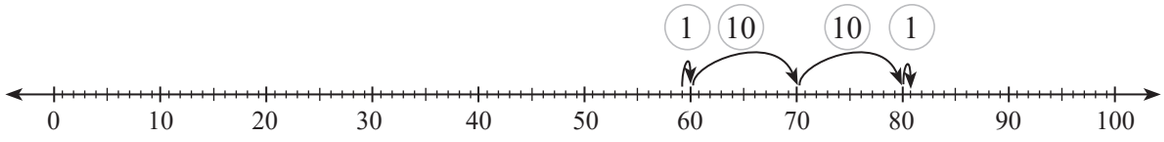
(d)



9 + 10 + 10 + 7 = 36

Answer: 47 – 11 = **36**

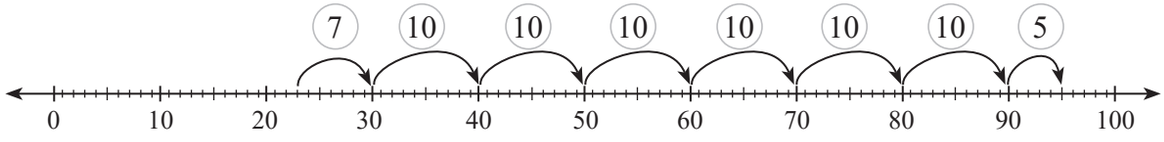
(e)



1 + 10 + 10 + 1 = 22

Answer: 81 – 59 = **22**

(f)



7 + 10 + 10 + 10 + 10 + 10 + 10 + 5 = 72

Answer: 95 – 23 = **72**

2. (a) 83 – 28 → 20 + 8 | 83 – 20 = 63 | 63 – 8 = 55

Answer: 83 – 28 = **55**

(b) 70 – 49 → 40 + 9 | 70 – 40 = 30 | 30 – 9 = 21

Answer: 70 – 49 = **21**

(c) 65 – 34 → 30 + 4 | 65 – 30 = 35 | 35 – 4 = 31

Answer: 65 – 34 = **31**

(d) 46 – 37 → 30 + 7 | 46 – 30 = 16 | 16 – 7 = 9

Answer: 46 – 37 = **9**

(e) 95 – 31 → 30 + 1 | 95 – 30 = 65 | 65 – 1 = 64

Answer: 95 – 31 = **64**

(f) 73 – 34 → 30 + 4 | 73 – 30 = 43 | 43 – 4 = 39

Answer: 73 – 34 = **39**

3. (a) 45–12

45 → 40 + 5 | 12 → 10 + 2

Subtracting tens: 40 – 10 = 30

Subtracting ones: 5 – 2 = 3

Combining the difference, we get

30 + 3 = 33

Answer: 45 – 12 = **33**

(b) 79–46

79 → 70 + 9 46 → 40 + 6

Subtracting tens: 70 – 40 = 30

Subtracting ones: 9 – 6 = 3

Combining the difference, we get

30 + 3 = 33

Answer: 79 – 46 = **33**

(c) 49–18

49 → 40 + 9 18 → 10 + 8

Subtracting tens: 40 – 10 = 30

Subtracting ones: 9 – 8 = 1

Combining the difference, we get

30 + 1 = 31

Answer: 49 – 18 = **31**

(d) 57 → 50 + 7 23 → 20 + 3

Subtracting tens: 50 – 20 = 30

Subtracting ones: 7 – 3 = 4

Combining the difference, we get

30 + 4 = 34

Answer: 57 – 23 = **34**

(e) 87 → 80 + 7 15 → 10 + 5

Subtracting tens: 80 – 10 = 70

Subtracting ones: 7 – 5 = 2

Combining the difference, we get

70 + 2 = 72

Answer: 87 – 15 = **72**

(f) 56 → 50 + 6 14 → 10 + 4

Subtracting tens: 50 – 10 = 40

Subtracting ones: 6 – 4 = 2

Combining the difference, we get

40 + 2 = 42

Answer: 56 – 14 = **42**

Exercise 3.2

1. (a) **Step 1.** Subtract ones.

8 – 2 = 6 ones

	H	T	O
	5	2	8
–	3	1	2
		1	6

Step 2. Subtract tens.

2 – 1 = 1 tens

Step 3. Subtract hundreds.

5 – 3 = 2 hundreds

Ans. 528 – 312 = 216

	H	T	O
	5	2	8
–	3	1	2
	2	1	6

(b) **Step 1.** Subtract ones.

6 – 3 = 3 ones

	H	T	O
	6	7	6
–	3	2	3
		5	3

Step 2. Subtract tens.

7 – 2 = 5 tens

Step 3. Subtract hundreds.

6 – 3 = 3 hundreds

Ans. 676 – 323 = 353

	H	T	O
	6	7	6
–	3	2	3
	3	5	3

(c) **Step 1.** Subtract ones.

9 – 3 = 6 ones

	H	T	O
	8	6	9
–	5	0	3
		6	6

Step 2. Subtract tens.

6 – 0 = 6 tens

Step 3. Subtract hundreds.

8 – 5 = 3 hundreds

Ans. 869 – 503 = 366

	H	T	O
	8	6	9
–	5	0	3
	3	6	6

(d) **Step 1.** Subtract ones.

7 – 0 = 7 ones

	H	T	O
	9	3	7
–	2	3	0
			7

	H	T	O
	9	3	7
–	2	3	0
	0	7	

Step 2. Subtract tens.

3 – 3 = 0 tens

Step 3. Subtract hundreds.

9 – 2 = 7 hundreds

Ans. 937 – 230 = 707

	H	T	O
	9	3	7
–	2	3	0
	7	0	7

2. (a) **Step 1.** Subtract ones.

3 – 1 = 2 ones

	H	T	O
	3	4	3
–	2	1	1
			2

	H	T	O
	3	4	3
–	2	1	1
	3	2	

Step 2. Subtract tens.

4 – 1 = 3 tens

Step 3. Subtract hundreds.

3 – 2 = 1 hundreds

Ans. 343 – 211 = 132

	H	T	O
	3	4	3
–	2	1	1
	1	3	2

(b) **Step 1.** Subtract ones.

7 cannot be subtracted from 0. So, regroup tens into ones.

6 tens 0 ones = 5 tens 10 ones.

Now, 10 – 7 = 3 ones

	H	T	O
		5	10
	4	~~6~~	~~0~~
–	1	3	7
			3

	H	T	O
		5	10
	4	~~6~~	~~0~~
–	1	3	7
		2	3

Step 2. Subtract tens.

5 – 3 = 2 tens

Step 3. Subtract hundreds.

4 – 1 = 3 hundreds

Ans. 460 – 137 = 323

	H	T	O
		5	10
	4	~~6~~	~~0~~
–	1	3	7
	3	2	3

(c) **Step 1.** Subtract ones.

8 cannot be subtracted from 2. So, regroup tens into ones.

6 tens 2 ones = 5 tens 12 ones.

Now, 12 – 8 = 4 ones

	H	T	O
		5	12
	5	~~6~~	~~2~~
–	3	4	8
			4

	H	T	O
		5	12
	5	~~6~~	~~2~~
–	3	4	8
		1	4

Step 2. Subtract tens.

5 – 4 = 1 tens

Step 3. Subtract hundreds.

5 – 3 = 2 hundreds

Ans. 562 – 348 = 214

	H	T	O
		5	12
	5	~~6~~	~~2~~
–	3	4	8
	2	1	4

(d) **Step 1.** Subtract ones.

7 cannot be subtracted from 2. So, regroup tens into ones.

8 tens 2 ones = 7 tens 12 ones.

Now, 12 – 7 = 5 ones

	H	T	O
		7	12
	6	~~8~~	~~2~~
–	1	1	7
			5

	H	T	O
		7	12
	6	~~8~~	~~2~~
–	1	1	7
		6	5

Step 2. Subtract tens.

7 – 1 = 6 tens

Step 3. Subtract hundreds.

6 – 1 = 5 hundreds

Ans. 682 – 117 = 565

	H	T	O
		7	12
	6	~~8~~	~~2~~
–	1	1	7
	5	6	5

3. (a) **Step 1.** Subtract ones.

5 – 3 = 2 ones

	H	T	O
	6	4	5
–	1	8	3
			2

	H	T	O
	5	14	
	~~6~~	~~4~~	5
–	1	8	3
		6	2

Step 2. Subtract tens.

8 cannot be subtracted from 4. So, regroup hundreds into tens.

6 hundreds 4 tens = 5 hundreds 14 tens.

Now, 14 – 8 = 6 tens

Step 3. Subtract hundreds.

5 – 1 = 4 hundreds

Ans. 645 – 183 = 462

	H	T	O
	5	14	
	~~6~~	~~4~~	5
–	1	8	3
	4	6	2

(b) **Step 1.** Subtract ones.

4 – 2 = 2 ones

	H	T	O
	7	2	4
–	3	4	2
			2

	H	T	O
	6	14	
	~~7~~	~~2~~	4
–	3	4	2
		8	2

Step 2. Subtract tens.

4 cannot be subtracted from 2. So, regroup hundreds into tens.

7 hundreds 2 tens = 6 hundreds 12 tens.

Now, 12 – 4 = 8 tens

Step 3. Subtract hundreds.

6 – 3 = 3 hundreds

Ans. 724 – 342 = 382

	H	T	O
	6	12	
	~~7~~	~~2~~	4
–	3	4	2
	3	8	2

(c) **Step 1.** Subtract ones.

6 – 3 = 3 ones

	H	T	O
	8	4	6
–	4	8	3
			3

	H	T	O
	7	14	
	~~8~~	~~4~~	6
–	4	8	3
		6	3

Step 2. Subtract tens.

8 cannot be subtracted from 4. So, regroup hundreds into tens.

8 hundreds 4 tens = 7 hundreds 14 tens.

Now, 14 – 8 = 6 tens

Step 3. Subtract hundreds.

7 – 4 = 3 hundreds

Ans. 846 – 483 = 363

	H	T	O
	7	14	
	~~8~~	~~4~~	6
–	4	8	3
	3	6	3

(d) **Step 1.** Subtract ones.

9 – 3 = 6 ones

	H	T	O
	4	3	9
–	2	5	3
			6

H	T	O
3	13	
~~4~~	~~3~~	9
– 2	5	3
	8	6

Step 2. Subtract tens.

5 cannot be subtracted from 3. So, regroup hundreds into tens.

4 hundreds 3 tens = 3 hundreds 13 tens.

Now, 13 – 5 = 8 tens

Step 3. Subtract hundreds.

3 – 2 = 1 hundreds

Ans. 439 – 253 = 186

H	T	O
3	13	
~~4~~	~~3~~	9
– 2	5	3
1	8	6

4. (a) **Step 1.** Subtract ones.

5 cannot be subtracted from 2. So, regroup tens into ones.

1 tens 2 ones = 0 tens 12 ones

Now, 12 – 5 = 7 ones

H	T	O
	0	12
3	~~1~~	~~2~~
– 1	7	5
		7

Step 2. Subtract tens.

7 cannot be subtracted from 0. So, regroup hundreds into tens.

3 hundreds 0 tens = 2 hundreds 10 tens.

Now, 10 – 7 = 3 tens

H	T	O
	10	
2	~~0~~	12
~~3~~	~~1~~	~~2~~
– 1	7	5
	3	7

Step 3. Subtract hundreds.

2 – 1 = 1 hundreds

Ans. 312 – 175 = 137

H	T	O
	10	
2	~~0~~	12
~~3~~	~~1~~	~~2~~
– 1	7	5
1	3	7

(b) **Step 1.** Subtract ones.

6 cannot be subtracted from 5. So, regroup tens into ones. But there is no tens. So, first regroup hundreds into tens and then tens into one.

H	T	O
4	~~10~~ 9	15
~~5~~	~~0~~	~~5~~
– 2	8	6
		9

5 hundreds 0 tens = 4 hundreds 10 tens

10 tens 5 ones = 9 tens 15 ones

Now, 15 – 6 = 9 ones

Step 2. Subtract tens.

9 – 8 = 1 tens

H	T	O
	9	
4	~~10~~	15
~~5~~	~~0~~	~~5~~
– 2	8	6
2	1	9

Step 3. Subtract hundreds.

4 – 2 = 2 hundreds

Ans. 505 – 286 = 219

H	T	O
	9	
4	~~10~~	15
~~5~~	~~0~~	~~5~~
– 2	8	6
	1	9

(c) **Step 1.** Subtract ones.

9 cannot be subtracted from 7. So, regroup tens into ones.

3 tens 7 ones = 2 tens 17 ones

Now, 17 – 9 = 8 ones

H	T	O
	~~2~~ 12	17
6	~~3~~	~~7~~
– 5	5	9
		8

Step 2. Subtract tens.

5 cannot be subtracted from 2. So, regroup hundreds into tens.

7 hundreds 2 tens = 6 hundreds 12 tens.

Now, 12 – 5 = 7 tens

H	T	O
	12	
6	~~2~~	17
~~7~~	~~3~~	~~7~~
– 5	5	9
	7	8

Step 3. Subtract hundreds.

6 – 5 = 1 hundreds

Ans. 737 – 559 = 178

H	T	O
	12	
6	~~2~~	17
~~7~~	~~3~~	~~7~~
– 5	5	9
1	7	8

(d) **Step 1.** Subtract ones.

7 cannot be subtracted from 4. So, regroup tens into ones. But there is no tens. So, first regroup hundreds into tens and then tens into one.

H	T	O
	10	14
8	~~0~~	~~4~~
– 6	4	7
		7

8 hundreds 0 tens = 7 hundreds 10 tens

10 tens 4 ones = 9 tens 14 ones

Now, 14 – 7 = 7 ones

Step 2. Subtract tens.

9 – 4 = 5 tens

	H	T	O
		9	
	7	~~10~~	14
	~~8~~	~~0~~	~~4~~
–	6	4	7
		5	7

	H	T	O
		9	
	7	~~10~~	14
	~~8~~	~~0~~	~~4~~
–	6	4	7
	1	5	7

Step 3. Subtract hundreds.

7 – 6 = 1 hundreds

Ans. 804 – 647 = 157

5. (a)

	H	T	O
		10	
	4	~~0~~	11
	~~5~~	~~1~~	~~1~~
–	3	9	4
	1	1	7

(b)

	H	T	O
		9	
	4	~~10~~	10
	~~5~~	~~0~~	~~0~~
–	3	9	4
	1	0	6

(c)

	H	T	O
		2	16
	7	~~3~~	~~6~~
–	2	1	8
	5	1	8

(d)

	H	T	O
		11	
	5	~~1~~	14
	~~6~~	~~2~~	~~4~~
–	4	3	9
	1	8	5

6. (a)

	H	T	O
		12	
	8	~~2~~	10
	~~9~~	~~3~~	~~0~~
–	6	4	8
	2	8	2

(b)

	H	T	O
	5	11	
	~~6~~	~~1~~	9
–	3	8	1
	2	3	8

(c)

	H	T	O
		9	
	7	~~10~~	10
	~~8~~	~~0~~	~~0~~
–		3	6
	7	6	4

(d)

	H	T	O
	4	9	8
–	2	5	7
	2	4	1

Exercise 3.3

1. (a) **Step 1.** Subtract ones: 9 – 5 = 4

Step 2. Subtract tens: 5 – 4 = 1

Step 3. Subtract hundreds: 4 – 2 = 2

Step 4. Subtract thousands: 6 – 3 = 3

	Th	H	T	O
	6	4	5	9
–	3	2	4	5
	3	2	1	4

Answer: 6459 – 3245 = 3214.

(b) **Step 1.** Subtract ones: 4 – 1 = 3

Step 2. Subtract tens: 0 – 0 = 0

Step 3. Subtract hundreds: 6 – 6 = 0

Step 4. Subtract thousands: 7 – 5 = 2

	Th	H	T	O
	7	6	0	4
–	5	6	0	1
	2	0	0	3

Answer: 7604 – 5601 = 2003.

(c) **Step 1.** Subtract ones: 9 – 1 = 8

Step 2. Subtract tens: 4 – 3 = 1

Step 3. Subtract hundreds: 9 – 8 = 1

Step 4. Subtract thousands: 9 – 7 = 2

	Th	H	T	O
	9	9	4	9
–	7	8	3	1
	2	1	1	8

Answer: 9949 – 7831 = 2118.

(d) **Step 1.** Subtract ones: 4 – 4 = 0

Step 2. Subtract tens: 7 – 4 = 3

Step 3. Subtract hundreds: 8 – 3 = 5

Step 4. Subtract thousands: 4 – 1 = 3

	Th	H	T	O
	4	8	7	4
–	1	3	4	4
	3	5	3	0

Answer: 4874 – 1344 = 3530.

(e) **Step 1.** Subtract ones: 1 – 0 = 1
Step 2. Subtract tens: 9 – 7 = 2
Step 3. Subtract hundreds: 4 – 2 = 2
Step 4. Subtract thousands: 6 – 5 = 1

	Th	H	T	O
	6	4	9	1
–	5	2	7	0
	1	2	2	1

Answer: 6491 – 5270 = 1221.

(f) **Step 1.** Subtract ones: 9 – 4 = 5
Step 2. Subtract tens: 5 – 3 = 2
Step 3. Subtract hundreds: 6 – 2 = 4
Step 4. Subtract thousands: 4 – 3 = 1

	Th	H	T	O
	4	6	5	9
–	3	2	3	4
	1	4	2	5

Answer: 4659 – 3234 = 1425.

(g) **Step 1.** Subtract ones: 9 – 7 = 2
Step 2. Subtract tens: 4 – 1 = 3
Step 3. Subtract hundreds: 2 – 2 = 0
Step 4. Subtract thousands: 7 – 3 = 4

	Th	H	T	O
	7	2	4	9
–	3	2	1	7
	4	0	3	2

Answer: 7249 – 3217 = 4032.

(h) **Step 1.** Subtract ones: 6 – 5 = 1
Step 2. Subtract tens: 5 – 5 = 0
Step 3. Subtract hundreds: 4 – 4 = 0
Step 4. Subtract thousands: 8 – 8 = 0

	Th	H	T	O
	8	4	5	6
–	8	4	5	5
	0	0	0	1

Answer: 8456 – 8455 = 0001.

2. (a) **Step 1.** Subtract ones: 3 – 2 = 1
Step 2. Subtract tens: 1 – 0 = 1
Step 3. Subtract hundreds: 2 – 2 = 0
Step 4. Subtract thousands: 4 – 2 = 2

	Th	H	T	O
	4	2	1	3
–	2	2	0	2
	2	0	1	1

Answer: 4213 – 2202 = 2011.

(b) **Step 1.** Subtract ones: 5 – 3 = 2
Step 2. Subtract tens: 8 – 0 = 8
Step 3. Subtract hundreds: 7 – 1 = 6
Step 4. Subtract thousands: 4 – 1 = 3

	Th	H	T	O
	4	7	8	5
–	1	1	0	3
	3	6	8	2

Answer: 4785 – 1103 = 3682.

(c) **Step 1.** Subtract ones: 5 – 0 = 5
Step 2. Subtract tens: 10 – 2 = 8
Step 3. Subtract hundreds: 10 – 3 = 7
Step 4. Subtract thousands: 8 – 4 = 4

	Th	H	T	O
	8	10 ~~0~~	10	
	~~9~~	~~1~~	~~0~~	5
–	4	3	2	0
	4	7	8	5

Answer: 9105 – 4320 = 4785.

(d) **Step 1.** Subtract ones: 8 – 7 = 1
Step 2. Subtract tens: 10 – 2 = 8
Step 3. Subtract hundreds: 9 – 3 = 6
Step 4. Subtract thousands: 7 – 0 = 7

Th	H	T	O
	9		
7	~~10~~	10	
~~8~~	~~0~~	~~0~~	8
–	3	2	7
7	6	8	1

Answer: 8008 – 327 = 7681.

Exercise 3.4

1. (a)

Th	H	T	O
5	14		
~~6~~	~~4~~	9	9
– 4	9	6	8
1	5	3	1

Answer: 6499 – 4968 = 1531.

(b)

Th	H	T	O
	13	9	
6	~~3~~	~~10~~	10
~~7~~	~~4~~	~~0~~	~~0~~
– 3	9	9	9
3	4	0	1

Answer: 7400 – 3999 = 3401.

(c)

Th	H	T	O
	13	9	
7	~~3~~	~~10~~	15
~~8~~	~~4~~	~~0~~	~~5~~
– 2	7	7	6
5	6	2	9

Answer: 8405 – 2776 = 5629.

(d)

Th	H	T	O
	9	14	
6	~~10~~	~~4~~	14
~~7~~	~~0~~	~~5~~	~~4~~
– 3	9	6	7
3	0	8	7

Answer: 7054 – 3967 = 3087.

2. (a)

Th	H	T	O
	15		
4	~~5~~	16	
~~5~~	~~6~~	~~6~~	7
– 3	9	9	4
1	6	7	3

Answer: 5657 – 3994 = 1673.

(b)

Th	H	T	O
	14		
5	~~4~~	14	
~~6~~	~~5~~	~~4~~	9
– 3	8	9	8
2	6	5	1

Answer: 6549 – 3898 = 2651.

(c)

Th	H	T	O
	9	9	
7	~~10~~	~~10~~	10
~~8~~	~~0~~	~~0~~	~~0~~
– 2	9	6	5
5	0	3	5

Answer: 8000 – 2965 = 5035.

(d)

Th	H	T	O
	5	10	
9	~~6~~	~~0~~	6
– 7	3	9	6
2	2	1	0

Answer: 9606 – 7396 = 2210.

Exercise 3.5

1. (a) 479 – 0 = **479**

(b) 630 – **0** = 630

(c) 9372 – 0 = **9372**

(d) 839 – 1 = **838**

(e) 728 – **0** = 728

(f) **1957** – 1 = 1956

2. (a) 115 – 10 = **105**

(b) 436 – 10 = **426**

(c) 967 – 100 = **867**

(d) 2364 – 100 = **2264**

(e) 5550 – 1000 = **4550**

(f) 6728 – 1000 = **5728**

Exercise 3.6

1.

			③	⑩	
Total number of students present in annual function	=		8	~~4~~	~~0~~
Total number of girls present in annual function	=	–	6	3	6
Total number of boys present in annual function	=		2	0	4

Answer: 204 boys are present in the annual function.

2.

			④	⑨	⑩
Number of seats in theatre	=		~~5~~	~~10~~	~~0~~
Number of person saw the show	=	–	3	7	5
Number of vacant seats	=		1	2	5

Answer: The theatre have 125 vacant seats.

3.

				⑭		
			⑦	~~4~~	⑪	
Amount of money Gayatri has in her bank account	=		~~8~~	~~5~~	~~1~~	5
Amount of money she withdraws from the bank	=	–	2	8	9	4
Money left in her bank account	=		5	6	2	1

Answer: Gayatri have ₹ 5621 left in her bank account.

4.

					③	⑬
Total distance Shivank travelled	=		8	5	~~4~~	~~3~~
Distance travelled by Shivank by bus	=	–	4	0	0	5
Distance travelled by Shivank by train	=		4	5	3	8

Answer: Shivank travelled 4538 km by train.

5.

		(13) (7) (3) (10)
Number of packets purchased	=	~~8~~ ~~4~~ ~~0~~
Number of packets distributed	=	– 7 8 1
Number of packet left undistributed	=	0 5 9

Answer: 59 packets were left undistributed.

Exercise 3.7

1. (a)

(14) (12) (7) (~~4~~) (~~2~~) (12) ~~8~~ ~~5~~ ~~3~~ ~~2~~ – 1 9 8 6 = 6 5 4 6

(1) (1) (1) 6 5 4 6 + 3 7 5 6 = 1 0 3 0 2

(9) (0) (10) (2) (~~10~~) (12) ~~1~~ ~~0~~ ~~3~~ ~~0~~ ~~2~~ – 5 2 8 8 = 0 5 0 1 4

Answer: 5014

(b)

(11) (12) (2) (~~1~~) (~~2~~) (10) ~~3~~ ~~2~~ ~~3~~ ~~0~~ – 1 9 6 5 = 1 2 6 5

(1) (1) (1) 1 2 6 5 + 9 8 7 = 2 2 5 2

Answer: 2252

(c)

(9) (7) (~~10~~) (~~10~~) ~~8~~ ~~0~~ ~~0~~ 6 – 5 5 2 2 = 2 4 8 4

(1) (1) 2 4 8 4 + 9 8 0 = 3 4 6 4

(2) (14) ~~3~~ ~~4~~ 6 4 – 8 3 2 = 2 6 3 2

Answer: 2632

(d)

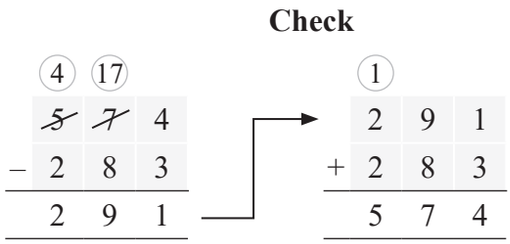
(1) (1) 7 7 0 2 + 1 3 2 9 = 9 0 3 1

(9) (8) (~~10~~) (13) ~~9~~ ~~0~~ ~~3~~ ~~1~~ – 4 5 6 1 = 4 4 7 0

(16) (2) (3) (~~6~~) (14) ~~4~~ ~~4~~ ~~7~~ ~~0~~ – 3 3 8 5 = 1 0 8 5

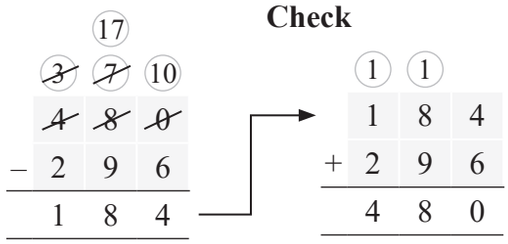
Answer: 1085

2. (a)



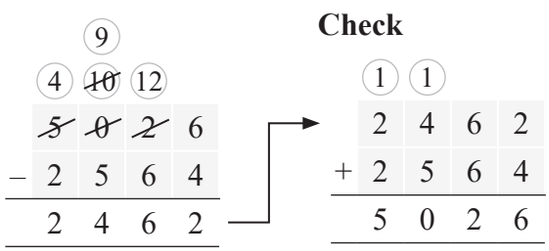
Thus, Subtraction is correct.

(b)



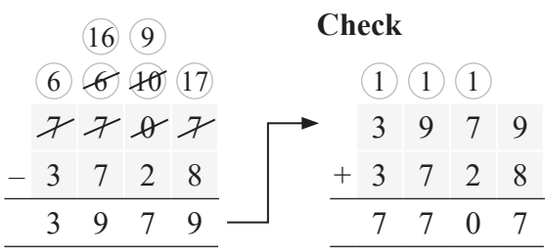
Thus, Subtraction is correct.

(c)



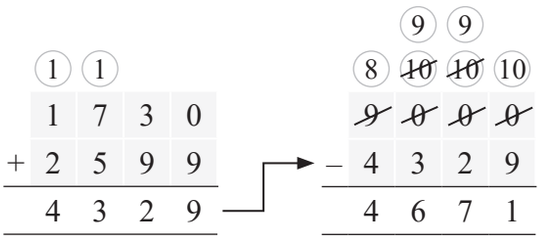
Thus, Subtraction is correct.

(d)



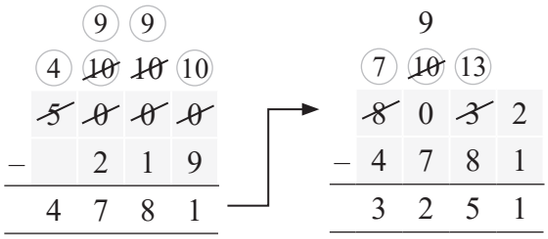
Thus, Subtraction is correct.

3.



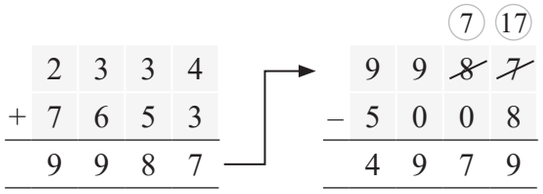
Answer: 4671

4.



Answer: 3251

5.



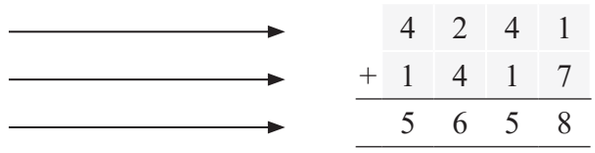
Answer: 4979

6.

Number of apples sold on one day = 4241

Number of apples sold on another day = 1417

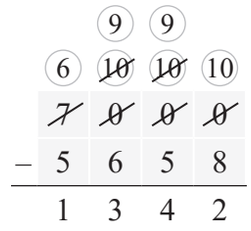
Total number of apples sold = 5658



Total number of apples = 7000

Number of apples sold = 5658

Number of apples left unsold = 1342



Answer: The fruit seller have 1342 apples left unsold.

7.

Total wheat Rahul had = 11790

Wheat left after selling = 6211

Wheat Rahul sold = 5579

$$\begin{array}{cccc} & {\scriptstyle 0} & {\scriptstyle 11} & & {\scriptstyle 8} & {\scriptstyle 10} \\ & \cancel{1} & \cancel{1} & 7 & \cancel{9} & \cancel{0} \\ - & & 6 & 2 & 1 & 1 \\ \hline & & 5 & 5 & 7 & 9 \end{array}$$

Answer: Rahul is left with 5579 kg of wheat.

Learning Updates

1. (a)
$$\begin{array}{cccc} & {\scriptstyle 14} & & \\ & {\scriptstyle 8} & \cancel{4} & {\scriptstyle 14} \\ 4 & \cancel{9} & \cancel{5} & \cancel{4} \\ - \ 2 & 6 & 7 & 9 \\ \hline 2 & 2 & 7 & 5 \end{array}$$

(b)
$$\begin{array}{cccc} & {\scriptstyle 14} & {\scriptstyle 10} & \\ {\scriptstyle 6} & \cancel{4} & \cancel{0} & {\scriptstyle 12} \\ \cancel{7} & \cancel{5} & \cancel{1} & \cancel{2} \\ - \ 3 & 8 & 7 & 5 \\ \hline 3 & 6 & 3 & 7 \end{array}$$

(c)
$$\begin{array}{cccc} & {\scriptstyle 12} & & \\ {\scriptstyle 7} & \cancel{2} & {\scriptstyle 10} & \\ \cancel{8} & \cancel{3} & \cancel{0} & 6 \\ - \ 3 & 5 & 9 & 4 \\ \hline 4 & 7 & 1 & 2 \end{array}$$

(d)
$$\begin{array}{cccc} & {\scriptstyle 9} & {\scriptstyle 9} & \\ {\scriptstyle 5} & \cancel{10} & \cancel{10} & {\scriptstyle 10} \\ \cancel{6} & \cancel{0} & \cancel{0} & \cancel{0} \\ - \ 2 & 9 & 8 & 9 \\ \hline 3 & 0 & 1 & 1 \end{array}$$

2. (a) 9628 – **0** = 9628 (b) 7534 – 0 = **7534** (c) **439** – 0 = 439

(d) 9561 – 1 = **9560** (e) 6224 – **2752** = 3472 (f) 9000 – 1 = **8999**

3. (a)
$$\begin{array}{cccc} & {\scriptstyle 2} & {\scriptstyle 16} & \\ 5 & \cancel{3} & \cancel{6} & \\ - \ 3 & 1 & 7 & \\ \hline 2 & 1 & 9 & \end{array} \qquad \begin{array}{cccc} & 2 & 4 & 8 \\ - & 1 & 1 & 7 \\ \hline & 1 & 3 & 1 \end{array}$$

219 > 131

Answer: 536 – 317 **>** 248 – 117

(b)
$$\begin{array}{cccc} & {\scriptstyle 7} & {\scriptstyle 17} & \\ \cancel{8} & \cancel{7} & 6 & \\ - \ 5 & 9 & 2 & \\ \hline 2 & 8 & 4 & \end{array} \qquad \begin{array}{cccc} & {\scriptstyle 9} & & \\ {\scriptstyle 5} & \cancel{10} & {\scriptstyle 11} & \\ \cancel{6} & \cancel{0} & \cancel{1} & \\ - \ 4 & 0 & 9 & \\ \hline 1 & 9 & 2 & \end{array}$$

284 > 192

Answer: 876 – 592 **>** 601 – 409

(c)
$$\begin{array}{cccc} & 5 & 8 & 9 \\ - & 3 & 8 & 0 \\ \hline & 2 & 0 & 9 \end{array} \qquad \begin{array}{cccc} & 9 & 7 & 8 \\ - & 1 & 0 & 6 \\ \hline & 8 & 7 & 2 \end{array}$$

209 < 872

Answer: 589 – 380 **<** 978 – 106

(d)
$$\begin{array}{cccc} & 3 & 8 & 5 & 4 \\ - & 1 & 0 & 0 & 0 \\ \hline & 2 & 8 & 5 & 4 \end{array} \qquad \begin{array}{cccc} & {\scriptstyle 18} & {\scriptstyle 12} & \\ {\scriptstyle 2} & \cancel{8} & \cancel{2} & {\scriptstyle 12} \\ \cancel{3} & \cancel{9} & \cancel{3} & \cancel{2} \\ - & 1 & 9 & 6 & 6 \\ \hline & 1 & 9 & 6 & 6 \end{array}$$

2854 > 1966

Answer: 3854 – 1000 **>** 3932 – 1966

4. (a)
$$\begin{array}{cccc} & {\scriptstyle 5} & {\scriptstyle 17} & \\ 1 & \cancel{6} & \cancel{7} & 8 \\ - & 5 & 9 & 8 \\ \hline 1 & 0 & 8 & 0 \end{array} \rightarrow \begin{array}{cccc} 1 & 0 & 8 & 0 \\ + \ 6 & 7 & 0 & 0 \\ \hline 7 & 7 & 8 & 0 \end{array} \rightarrow \begin{array}{cccc} & & {\scriptstyle 7} & {\scriptstyle 10} \\ 7 & 7 & \cancel{8} & \cancel{0} \\ - \ 5 & 4 & 3 & 2 \\ \hline 2 & 3 & 4 & 8 \end{array}$$

Answer: 2348

(b)

	(9)	(12)		
(7)	~~10~~	~~2~~	(12)	
~~8~~	~~0~~	~~3~~	2	
–	6	7	8	
7	3	5	4	

→

		(1)	(1)	
	7	3	5	4
+	3	0	5	9
1	0	4	1	3

→

(0)	(10)		(0)	(13)
~~1~~	~~0~~	4	~~1~~	~~3~~
–	1	0	0	9
	9	4	0	4

Answer: 9304

(c)

			(1)	
9	3	4	8	
– 2	1	4	6	
7	2	0	2	

→

	7	2	0	2
+	1	6	7	8
	8	8	8	0

→

		(7)	(10)	
8	8	~~8~~	~~0~~	
– 8	3	3	2	
0	5	4	8	

Answer: 548

(d)

		(7)	(14)	
6	2	~~8~~	~~4~~	
– 6	2	3	7	
0	0	4	7	

→

		(1)	(1)	
	0	0	4	7
+	1	0	9	8
	1	1	4	5

→

		(10)	(13)	
		~~0~~	~~3~~	(15)
1	~~1~~	~~4~~	~~5~~	
–	9	5	6	
	1	8	9	

Answer: 189

5.

Total number of stamps Smriti and Divyansh together have = 5380 →
Number of stamps Divyansh have = 2975 →
Number of stamps Smriti have = 2405 →

	(4)	(13)	(7)	(10)
	~~5~~	~~3~~	~~8~~	~~0~~
– 2	9	7	5	
2	4	0	5	

Answer: Smriti have 2405 stamps.

6.

Number of marbles Garwit had = 5906 →
Number of marbles he gave to his friends = 2078 →
Number of marbles left with him = 3828 →

		(8)	(9)	(16)
5		~~9~~	~~10~~	~~6~~
– 2	0	7	8	
3	8	2	8	

Answer: Garwit is left with 3828 marbles.

Multiple Choice Questions

1.

	3	10	
	~~4~~	~~0~~	0
–	2	1	0
	1	9	0

Answer: (d)

2.

	7	3	5	2
–	3	0	0	0
	4	3	5	2

Answer: (a)

3.

	3	6	7
+	7	1	0
1	0	7	7

Answer: (a)

4.

	8	0	0	0
–	1	0	0	0
	7	0	0	0

→

	7	0	0	0
–	1	0	0	0
	6	0	0	0

→

	6	0	0	0
–				0
	6	0	0	0

Answer: 6000

5. 72 – 7 = 65, 65 – 7 = 58, 58 – 7 = 51, 51 – 7 = 44

Answer: (b) 44

6.

		9	9	
	1	~~10~~	~~10~~	10
	2	~~0~~	~~0~~	~~0~~
–	1	6	9	7
	0	3	0	3

Answer: (d)

Skills Check

1. (a)

	3	7	[8]
–	1	[2]	4
	[2]	5	4

(b)

	[5]	8	9	[8]
–	4	[2]	3	7
	1	6	[6]	1

2.

	H	**T**	**O**
	5	1	**5**
–	3	**5**	7
1	0	**5**	8

Answer: 5

4 Multiplication

Get Started

1. 3 × 4 = 12

2. 4 × 3 = 12

3. 4 × 3 = 12

4. 2 × 5 = 10

Exercise 4.1

1. (a) 3 × 3 = **9**

(b) 7 × 5 = **35**

(c) 6 × 8 = **48**

(d) 9 × 7 = **63**

(e) 2 × 9 = **18**

(f) 5 × 9 = **45**

(g) 3 × 6 = **18**

(h) 8 × 8 = **64**

(i) 10 × 10 = **100**

(j) 8 × 4 = **32**

(k) 7 × 10 = **70**

2. (a) 2 + 2 = 4, 4 + 2 = 6, 6 + 2 = 8, 8 + 2 = 10, 10 + 2 = 12 (Addition of 2)

(b) 4 + 4 = 8, 8 + 4 = 12, 12 + 4 = 16, 16 + 4 = 20, 20 + 4 = 24 (Addition of 4)

(c) 20 + 5 = 25, 25 + 5 = 30, 30 + 5 = 35, 35 + 5 = 40, 40 + 5 = 45 (Addition of 5)

(d) 7 + 7 = 14, 14 + 7 = 21, 21 + 7 = 28, 28 + 7 = 35, 35 + 7 = 42 (Addition of 7)

(e) 16 + 8 = 24, 24 + 8 = 32, 32 + 8 = 40, 40 + 8 = 48, 48 + 8 = 56 (Addition of 8)

(f) 50 + 10 = 60, 60 + 10 = 70, 70 + 10 = 80, 80 + 10 = 90, 90 + 10 = 100 (Addition of 10)

Exercise 4.2

1.

	Multiplicand	Multiplier	Product
(a)	3	8	24
(b)	9	4	36
(c)	10	5	50
(d)	6	7	42
(e)	8	9	72

2.

		Factors	Product
(a)	3 × 5 = 15	3, 5	15
(b)	5 × 7 = 35	5, 7	35
(c)	4 × 7 = 28	4, 7	28
(d)	4 × 5 = 20	4, 5	20
(e)	8 × 7 = 56	8, 7	56
(f)	3 × 7 = 21	3, 7	21

Exercise 4.3

1.

×	3	4	5	6	7	8	9	10
2	6	8	(11)	12	14	16	18	20
3	(7)	12	15	(19)	21	24	(28)	30
4	12	16	(18)	24	28	(31)	36	40
5	15	20	25	30	35	40	(47)	50
6	(12)	24	30	36	(40)	48	54	(62)
7	21	(29)	35	42	49	(65)	63	70
8	24	32	40	48	56	64	(69)	80
9	27	36	45	54	63	72	(18)	90
10	30	40	50	60	70	80	90	(110)

2 × 5 = 10, 10 ≠ 11

3 × 3 = 9, 9 ≠ 7, 3 × 6 = 18, 18 ≠ 19

3 × 9 = 27, 27 ≠ 28

4 × 5 = 20, 20 ≠ 18 4 × 8 = 32, 32 ≠ 31

5 × 9 = 45, 45 ≠ 47

6 × 3 = 18, 18 ≠ 12 6 × 7 = 42, 42 ≠ 40

6 × 10 = 60, 60 ≠ 62

7 × 4 = 28, 28 ≠ 29 7 × 8 = 56, 56 ≠ 65

8 × 9 = 72, 72 ≠ 69

9 × 9 = 81, 81 ≠ 18

10 × 10 = 100, 100 ≠ 110

2. (a)

	T	O
	2	2
×		3
	6	6

(b)

	T	O
	9	7
×		1
	9	7

(c)

	H	T	O
	3	2	1
×			2
	6	4	2

(d)

	H	T	O
	2	3	3
×			3
	6	9	9

(e)

	T	O
	3	3
×		2
	6	6

(f)

	H	T	O
	1	0	3
×			2
	2	0	6

(g)

	H	T	O
	4	3	4
×			2
	8	6	8

(h)

	H	T	O
	3	1	2
×			3
	9	3	6

Exercise 4.4

1. (a)

	H	T	O
	(2)	(1)	
		7	6
×			3
	2	2	8

Answer: 76 × 3 = 228.

(b)

	H	T	O
	(7)	(7)	
		8	9
×			8
	7	1	2

Answer: 89 × 8 = 712.

(c)

	Th	H	T	O
		(2)	(3)	
		3	4	5
×				6
	2	0	7	0

Answer: 345 × 6 = 2070.

(d)

	Th	H	T	O
			(4)	
		5	0	6
×				8
	4	0	4	8

Answer: 506 × 7 = 4048.

2. (a)

	T	O
	(1)	
	2	6
×		3
	7	8

Answer: 78.

(b)

	H	T	O
		(2)	
		9	5
×			4
	3	8	0

Answer: 380.

(c)

	H	T	O
		(6)	
		5	8
×			8
	4	6	4

Answer: 464.

(d)

	Th	H	T	O
		(2)	(3)	
		7	3	6
×				6
	4	4	1	6

Answer: 4416.

(e)

	Th	H	T	O
			(6)	
		5	0	7
×				9
	4	5	6	3

Answer: 4563.

(f)

	Th	H	T	O
		(4)	(6)	
		2	5	9
×				7
	1	8	1	3

Answer: 1813.

Exercise 4.5

1. (a)

	H	T	O
		(4)	
		4	6
×			8
	3	6	8

Answer: 368.

(b)

	H	T	O
		(3)	
		9	8
×			4
	3	9	2

Answer: 392.

(c)

	H	T	O
		2	6
×		1	0
		0	0
+	2	6	×
	2	6	0

Answer: 260.

(d)

	Th	H	T	O
		(1)	(5)	
		5	2	9
×				6
	3	1	7	4

Answer: 3174.

(e)

	H	T	O
		(6)	
		3	7
×			9
	3	3	3

Answer: 333.

(f)

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

Answer: 5136.

(g)

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

Answer: 8200.

(h)

	Th	H	T	O
		(5)	(1)	
		2	7	2
×			1	7
	(1)			
	1	9	0	4
+	2	7	2	×
	4	6	2	4

Answer: 4624.

2. (a)

	H	T	O
		(4)	
		5	6
×			7
	3	9	2

	H	T	O
		(2)	
		9	6
×			4
	3	8	4

Answer: 56 × 7 (>) 96 × 4

(b)

	H	T	O
		(1)	
	1	0	5
×			3
	3	1	5

	H	T	O
		(4)	
		8	5
×			9
	7	6	5

Answer: 105 × 3 (<) 85 × 9

(c)

	Th	H	T	O
		(1)	(4)	
		3	2	9
×			1	5
		(1)		
	1	6	4	5
+	3	2	9	×
	4	9	3	5

	Th	H	T	O
		1	5	2
×			1	1
		1	5	2
+	1	5	2	×
	1	6	7	2

Answer: 329 × 15 (>) 152 × 11

(d)

	Th	H	T	O
		(8)	(4)	
		3	2	9
×			2	0
		(1)		
		0	0	0
+	6	5	8	×
	6	5	8	0

	Th	H	T	O
		3	0	1
×			3	0
		0	0	0
+	9	0	3	×
	9	0	3	0

Answer: 329 × 20 (<) 301 × 30

Exercise 4.6

1. (a) 7 × 1 = **1** × 7 (b) 16 × **0** = 0 × 16

(c) **1** × 953 = 953 × 1 (d) 4059 × 2 = **2** × **4059**

2. (a) 3 × 10 = **30** (b) 13 × 10 = **130**

(c) 735 × 100 = **73500** (d) 40 × 100 = **4000**

(e) 829 × 1000 = **829000**

(f) 529 × 1000 = **529000**

Exercise 4.7

1. Number of crayons in a box = 24
Number of boxes = 56
Number of crayons in 56 boxes = 24 × 56

	Th	H	T	O
			(2)	
			(2)	
			2	4
×			5	6
		1	4	4
+	1	2	0	×
	1	3	4	4

Answer: 56 boxes contains 1344 crayons.

2. Number of muffins Kavya baked in a day = 26
Number of days in a year = 365
Number of muffins she will bakes in 1 year = 365 × 26

	Th	H	T	O
		(1)	(1)	
		(3)	(3)	
		3	6	5
×			2	6
	2	1	9	0
+	7	3	0	×
	9	4	9	0

Answer: Kavya bakes 9490 muffins in a year.

3. Number of pencils in a packet = 126
Number of packets = 24
Number of pencils in 24 packets = 126 × 24

	Th	H	T	O
			(1)	
		(1)	(2)	
		1	2	6
×			2	4
	(1)	5	0	4
+	2	5	2	×
	3	0	2	4

Answer: There are 3024 pencils in 24 packets.

4. The annual road tax = ₹ 320
Number of persons paid tax = 31
Total amount collected = 320 × 31

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

Answer: Total amount collected is ₹ 9920.

5. Number of students in class III = 46
Amount each student contributed = ₹ 30
Money collected by the class = 46 × 30

	Th	H	T	O
			(1)	
			4	6
×			3	0
			0	0
+	1	3	8	×
	1	3	8	0

Answer: Total amount collected by each student is ₹ 1380.

6. Number of sanitizer bottles sold in a day = 225
Total number of days sanitizer bottles are sold = 28
Total sanitizer bottles sold = 225 × 28

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

Answer: 6300 bottles of sanitizer were sold in 28 days.

Learning Updates

1. (a)

	H	T	O
		(1)	
		8	2
×			6
	4	9	2

(b)

	Th	H	T	O
			(2)	
			(1)	
			4	3
×			7	5
		2	1	5
+	3	0	1	×
	3	2	2	5

(c)

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

(d)

	Th	H	T	O
			(7)	
			(6)	
			4	9
×			8	7
	(1)	3	4	3
+	3	9	2	×
	4	2	6	3

(e)

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

(f)

	Th	H	T	O
		(2)		
		(4)	(1)	
		2	7	3
×			3	6
		(1)		
	1	6	3	8
+	8	1	9	×
	9	8	2	8

(g)

	Th	H	T	O
		3	0	1
×			1	3
		9	0	3
+	3	0	1	×
	3	9	1	3

(h)

	Th	H	T	O
		(1)	(2)	
		1	2	4
×			7	2
		(1)		
		2	4	8
+	8	6	8	×
	8	9	2	8

2. (a) $9 \times 7 = \mathbf{7} \times 9$

(b) $4 \times 5 = 5 \times \mathbf{4}$

(c) $5 \times 1 = \mathbf{1} \times \mathbf{5}$

(d) $8 \times \mathbf{1} = 8$

(e) $4 \times \mathbf{0} = 0$

(f) $8 \times 0 = \mathbf{0}$

3. (a) Number of boxes = 82

Number of toys in each box = 12

Total number of toys = 82 × 12

	H	T	O
		8	2
×		1	2
	1	6	4
+	8	2	×
	9	8	4

Answer: There are 984 toys in 82 boxes.

(b) Cost of 1 necklace = ₹ 224

Number of necklace = 36

Cost of 36 necklaces = 224 × 36

	Th	H	T	O
			(1)	
		(1)	(2)	
		2	2	4
×			3	6
	(1)			
	1	3	4	4
+	6	7	2	×
	8	0	6	4

Answer: Total cost of 36 necklaces is ₹ 8064.

Multiple Choice Questions

1. (a) $10 \times \mathbf{32} = 320$

(b) $\mathbf{40} \times 10 = 400$

(c) $\mathbf{0} \times 368 = 0$

(d) $39 \times 75 = 75 \times \mathbf{39}$

(e) $725 \times \mathbf{1} = 725$

(f) $457 \times \mathbf{1} = 457$

2. (i)

	H	T	O
		1	6
×		1	0
		0	0
+	1	6	×
	1	6	0

(ii)

	H	T	O
	7	2	9
×			0
	0	0	0

(iii)

	H	T	O
		(1)	
		(1)	
		3	6
×		2	3
	1	0	8
+	7	2	×
	8	2	8

(iv)

	H	T	O
		2	0
×		3	0
		0	0
+	6	0	×
	6	0	0

Answer: (i) 160, (ii) 0, (iii) 828, (iv) 600

3. 40 + 40 = 80, 80 + 40 = 120,
120 + 40 = 160, 160 + 40 = 200.
200 + 40 = 240, 240 + 40 = 280
(Addition of 40)

40	80	120	160	200	240	280

Skills Check

1. (a) Greatest 3-digit number using 6, 2, 0, 5
= 652
652 × 1 = 652

(b) Smallest 3-digit number using 6, 2, 0, 5
= 205
205 × 1 = 205

5 Division

Get Started

Yes, we can give same number of candies to each friends.
Total number of candies = 8
Number of friends = 4
Number of candies each friend will get = 8 ÷ 4 = 2

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

Answer: Each friend will get **2** candies.

Exercise 5.1

1. (a) 10 balloons shared equally by 5 is
10 ÷ 5 = 2
Each child gets **2** balloons.

(b) 16 sugar cubes put into 4 cups
16 ÷ 4 = 4
Each cup has **4** sugar cubes.

$$\begin{array}{r} 2 \\ 5\overline{)\,10} \\ -\,10 \\ \hline 0 \end{array} \qquad \begin{array}{r} 4 \\ 4\overline{)\,16} \\ -\,16 \\ \hline 0 \end{array}$$

2. (a) 15 divided by 5
15 ÷ 5 = 3

(b) 40 divided by 10
40 ÷ 10 = 4

Exercise 5.2

1.

	Division fact	Dividend	Divisor	Quotient
(a)	60 ÷ 6 = 10	60	6	10
(b)	45 ÷ 9 = 5	45	9	5
(c)	120 ÷ 15 = 8	120	15	8
(d)	225 ÷ 5 = 45	225	5	45

2. (b) 36 ÷ 9

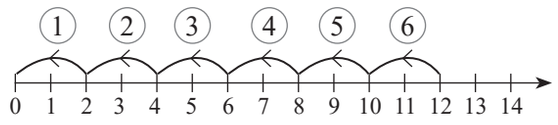
$$\begin{array}{r} 36 \\ -\,9 \leftarrow (1) \\ \hline 27 \\ -\,9 \leftarrow (2) \\ \hline 18 \\ -\,9 \leftarrow (3) \\ \hline 9 \\ -\,9 \leftarrow (4) \\ \hline 0 \end{array}$$

(c) 916 ÷ 229

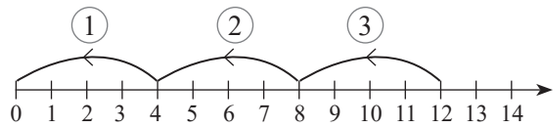
$$\begin{array}{r} 916 \\ -\,229 \leftarrow (1) \\ \hline 687 \\ -\,229 \leftarrow (2) \\ \hline 458 \\ -\,229 \leftarrow (3) \\ \hline 229 \\ -\,229 \leftarrow (4) \\ \hline 0 \end{array}$$

Exercise 5.3

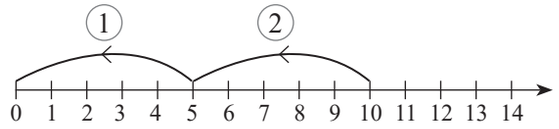
1. (a)



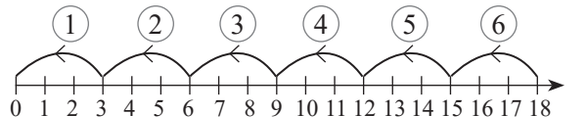
12 ÷ 2 = 6

(b) 

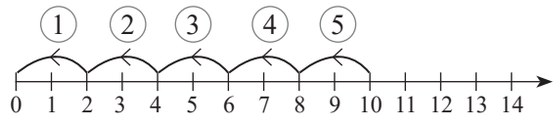
12 ÷ 4 = 3

(c) 

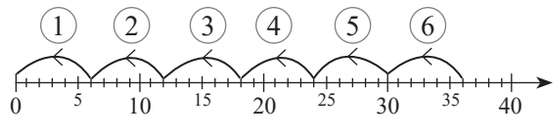
10 ÷ 5 = 2

2. (a) 

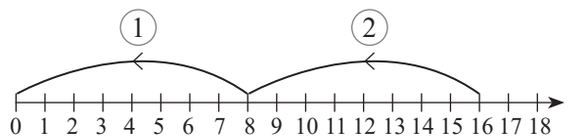
18 ÷ 3 = 6

(b) 

10 ÷ 2 = 5

(c) 

36 ÷ 6 = 6

(d) 

16 ÷ 8 = 2

3. (a) 5 × 9 = 45
45 ÷ 9 = 5
45 ÷ 5 = 9

(b) 8 × 7 = 56
56 ÷ 7 = 8
56 ÷ 8 = 7

(c) 12 × 10 = 120
120 ÷ 12 = 10
120 ÷ 10 = 12

4. (a) 32 ÷ 4 = 8
8 × 4 = 32

(b) 66 ÷ 11 = 6
11 × 6 = 66

(c) 49 ÷ 7 = 7
7 × 7 = 49

(d) 27 ÷ 9 = 3
9 × 3 = 27

(e) 20 ÷ 20 = 1
20 × 1 = 20

(f) 50 ÷ 10 = 5
10 × 5 = 50

Exercise 5.4

1. (a) 4 ÷ 1 = **4**
(b) 26 ÷ 1 = **26**
(c) 0 ÷ 916 = **0**
(d) 17 ÷ 1 = **17**
(e) 10 ÷ 10 = **1**
(f) 0 ÷ 14 = **0**
(g) 38 ÷ 1 = **38**
(h) 804 ÷ **1** = 804
(i) 150 ÷ **1** = 150

2. (a) _____ ÷ 7 = 4
Divisor Quotient
Dividend = Quotient × Divisor
= 4 × 7
= 28

Answer: 28.

(b) _____ ÷ 6 = 6
Divisor Quotient
Dividend = Quotient × Divisor
= 6 × 6
= 36

Answer: 36.

(c) _____ ÷ 6 = 30
Divisor Quotient
Dividend = Quotient × Divisor
= 30 × 6
= 180

Answer: 180.

(d) _____ ÷ 5 = 11
Divisor Quotient
Dividend = Quotient × Divisor
= 11 × 5
= 55

Answer: 55.

(e) _____ ÷ 8 = 3
Divisor Quotient
Dividend = Quotient × Divisor
= 3 × 8
= 24

Answer: 24.

(f) $\_\_\_\_ \div 17 = 19$

Divisor Quotient

Dividend = Quotient × Divisor

= 19 × 17

= 323

Answer: 323.

Exercise 5.5

1. Total number of balls = 10

Number of equal groups = 4

Number of groups formed = 10 ÷ 4 = 2

$$\begin{array}{r} 2 \leftarrow \text{Quotient} \\ 4\overline{)10} \\ -\,8 \\ \hline 2 \leftarrow \text{Remainder} \end{array}$$

Number of balls left over = Remainder = 2

Answer: 2 balls are left if 10 balls are to be divided in equal groups of 4.

2. (a)
$$\begin{array}{r} 9 \\ 4\overline{)36} \\ -\,36 \\ \hline 0 \end{array}$$
Quotient = 9

(b)
$$\begin{array}{r} 7 \\ 5\overline{)35} \\ -\,35 \\ \hline 0 \end{array}$$
Quotient = 7

(c)
$$\begin{array}{r} 8 \\ 6\overline{)48} \\ -\,48 \\ \hline 0 \end{array}$$
Quotient = 8

(d)
$$\begin{array}{r} 7 \\ 9\overline{)63} \\ -\,63 \\ \hline 0 \end{array}$$
Quotient = 7

3. (a) 38 ÷ 4

$$\begin{array}{r} 9 \leftarrow \text{Quotient} \\ 4\overline{)38} \\ -\,36 \\ \hline 2 \leftarrow \text{Remainder} \end{array}$$
Q = 9, R = 2

(b) 44 ÷ 6

$$\begin{array}{r} 7 \leftarrow \text{Quotient} \\ 6\overline{)44} \\ -\,42 \\ \hline 2 \leftarrow \text{Remainder} \end{array}$$
Q = 7, R = 2

(c) 50 ÷ 9

$$\begin{array}{r} 5 \leftarrow \text{Quotient} \\ 9\overline{)50} \\ -\,45 \\ \hline 5 \leftarrow \text{Remainder} \end{array}$$
Q = 5, R = 5

(d) 35 ÷ 8

$$\begin{array}{r} 4 \leftarrow \text{Quotient} \\ 8\overline{)35} \\ -\,32 \\ \hline 3 \leftarrow \text{Remainder} \end{array}$$
Q = 4, R = 3

4. (a)
$$\begin{array}{r} 9 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 6\overline{)59} \leftarrow \text{Dividend} \\ -\,54 \\ \hline 5 \leftarrow \text{Remainder} \end{array}$$

Check: Dividend = Divisor × Quotient + Remainder

59 = 6 × 9 + 5

59 = 54 + 5

59 = 59

Thus, the division is correct.

(b)
$$\begin{array}{r} 9 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 8\overline{)76} \leftarrow \text{Dividend} \\ -\,72 \\ \hline 4 \leftarrow \text{Remainder} \end{array}$$

Check: Dividend = Divisor × Quotient + Remainder

76 = 8 × 9 + 4

76 = 72 + 4

76 = 76

Thus, the division is correct.

(c)
$$\begin{array}{r} 8 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 7\overline{)58} \leftarrow \text{Dividend} \\ -\,56 \\ \hline 2 \leftarrow \text{Remainder} \end{array}$$

Check: Dividend = Divisor × Quotient + Remainder

58 = 7 × 8 + 2

58 = 56 + 2

58 = 58

Thus, the division is correct.

(d)
$$\begin{array}{r} 9 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 9\overline{)83} \leftarrow \text{Dividend} \\ -\,81 \\ \hline 2 \leftarrow \text{Remainder} \end{array}$$

Check: Dividend = Divisor × Quotient + Remainder

$83 = 9 \times 9 + 2$

$83 = 81 + 2$

$83 = 83$

Thus, the division is correct.

Exercise 5.6

1.

	23 ← Quotient
Divisor → 2	) 46 ← Dividend
	− 4 ↓
	06
	− 6
	0 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$46 = 2 \times 23 + 0$

$46 = 46 + 0$

$46 = 46$

Thus, the division is correct.

2.

	23 ← Quotient
Divisor → 3	) 69 ← Dividend
	− 6 ↓
	09
	− 9
	0 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$69 = 3 \times 23 + 0$

$69 = 69 + 0$

$69 = 69$

Thus, the division is correct.

3.

	13 ← Quotient
Divisor → 6	) 83 ← Dividend
	− 6 ↓
	23
	− 18
	5 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$83 = 6 \times 13 + 5$

$83 = 78 + 5$

$83 = 83$

Thus, the division is correct.

4.

	10 ← Quotient
Divisor → 9	) 97 ← Dividend
	− 9 ↓
	07 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$97 = 9 \times 10 + 7$

$97 = 90 + 7$

$97 = 97$

Thus, the division is correct.

5.

	31 ← Quotient
Divisor → 8	) 248 ← Dividend
	− 24 ↓
	08
	− 8
	0 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$248 = 8 \times 31 + 0$

$248 = 248 + 0$

$248 = 248$

Thus, the division is correct.

6.

	132 ← Quotient
Divisor → 3	) 396 ← Dividend
	− 3 ↓ |
	09 |
	− 9 ↓
	06
	− 6
	0 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

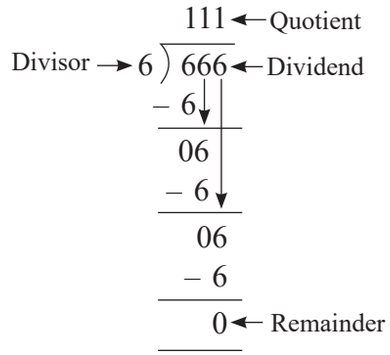
$396 = 3 \times 132 + 0$

$396 = 396 + 0$

$396 = 396$

Thus, the division is correct.

7.



Check: Dividend = Divisor × Quotient + Remainder

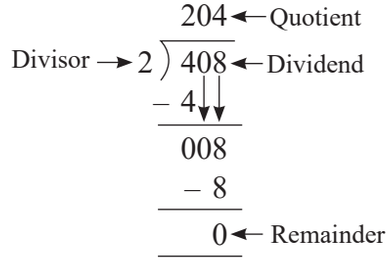
$666 = 6 \times 111 + 0$

$666 = 666 + 0$

$666 = 666$

Thus, the division is correct.

8.



Check: Dividend = Divisor × Quotient + Remainder

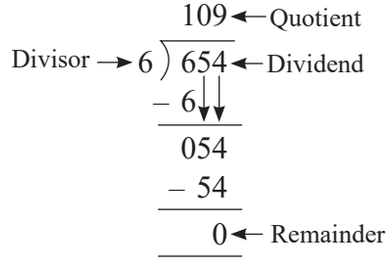
$408 = 2 \times 204 + 0$

$408 = 408 + 0$

$408 = 408$

Thus, the division is correct.

9.



Check: Dividend = Divisor × Quotient + Remainder

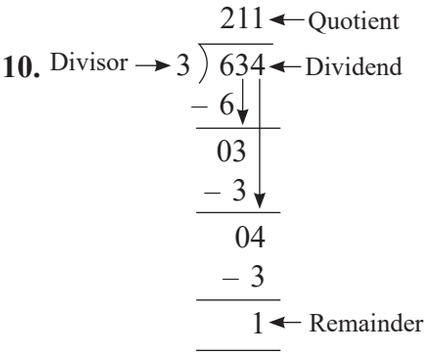
$654 = 6 \times 109 + 0$

$654 = 654 + 0$

$654 = 654$

Thus, the division is correct.

10.



Check: Dividend = Divisor × Quotient + Remainder

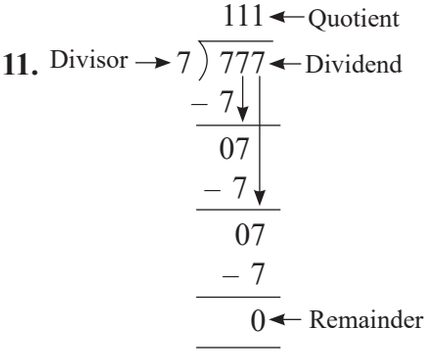
$634 = 3 \times 211 + 1$

$634 = 633 + 1$

$634 = 634$

Thus, the division is correct.

11.



Check: Dividend = Divisor × Quotient + Remainder

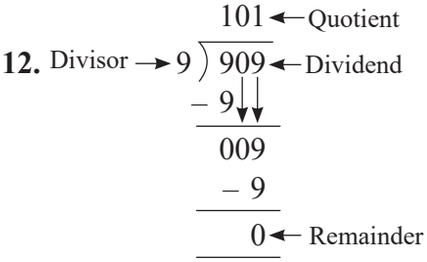
$777 = 7 \times 111 + 0$

$777 = 777 + 0$

$777 = 777$

Thus, the division is correct.

12.



Check: Dividend = Divisor × Quotient + Remainder

$909 = 9 \times 101 + 0$

$909 = 909 + 0$

$909 = 909$

Thus, the division is correct.

13. Divisor → 3) 607 ← Dividend

202 ← Quotient

− 6

007

− 6

1 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$607 = 3 \times 202 + 1$

$607 = 606 + 1$

$607 = 607$

Thus, the division is correct.

14. Divisor → 7) 708 ← Dividend

101 ← Quotient

− 7

008

− 7

1 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$708 = 7 \times 101 + 1$

$708 = 707 + 1$

$708 = 708$

Thus, the division is correct.

15. Divisor → 2) 509 ← Dividend

254 ← Quotient

− 4

10

− 10

09

− 8

1 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$509 = 2 \times 254 + 1$

$509 = 508 + 1$

$509 = 509$

Thus, the division is correct.

16. Divisor → 5) 508 ← Dividend

101 ← Quotient

− 5

008

− 5

3 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$508 = 5 \times 101 + 3$

$508 = 505 + 3$

$508 = 508$

Thus, the division is correct.

Exercise 5.7

1. (a) Divisor → 3) 79 ← Dividend

26 ← Quotient

− 6

19

− 18

1 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$79 = 3 \times 26 + 1$

$79 = 78 + 1$

$79 = 79$

Thus, the division is correct.

(b) Divisor → 5) 69 ← Dividend

13 ← Quotient

− 5

19

− 15

4 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

$69 = 5 \times 13 + 4$

$69 = 65 + 4$

$69 = 69$

Thus, the division is correct.

(c)

13 ← Quotient

Divisor → 7) 97 ← Dividend

− 7

27

− 21

6 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

97 = 7 × 13 + 6

97 = 91 + 6

97 = 97

Thus, the division is correct.

(d)

107 ← Quotient

Divisor → 9) 970 ← Dividend

− 9

070

− 63

7 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

970 = 9 × 107 + 7

970 = 963 + 7

970 = 970

Thus, the division is correct.

(e)

236 ← Quotient

Divisor → 3) 710 ← Dividend

− 6

11

− 9

20

− 18

2 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

710 = 3 × 236 + 2

710 = 708 + 2

710 = 710

Thus, the division is correct.

(f)

66 ← Quotient

Divisor → 6) 400 ← Dividend

− 36

040

− 36

4 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

400 = 6 × 66 + 4

400 = 396 + 4

400 = 400

Thus, the division is correct.

(g)

84 ← Quotient

Divisor → 5) 423 ← Dividend

− 40

023

− 20

3 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

423 = 5 × 84 + 3

423 = 420 + 3

423 = 423

Thus, the division is correct.

(h)

598 ← Quotient

Divisor → 8) 4789 ← Dividend

− 40

78

− 72

69

− 64

5 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

4789 = 8 × 598 + 5

4789 = 4784 + 5

4789 = 4789

Thus, the division is correct.

(i)

369 ← Quotient

Divisor → 7) 2583 ← Dividend

– 21

48

– 42

63

– 63

0 ← Remainder

Check: Dividend = Divisor × Quotient + Remainder

2583 = 7 × 369 + 0

2583 = 2583 + 0

2583 = 2583

Thus, the division is correct.

2. (a)

5 ← Quotient

Divisor → 10) 50 ← Dividend

– 50

0 ← Remainder

(b)

6 ← Quotient

Divisor → 10) 65 ← Dividend

– 60

5 ← Remainder

(c)

4 ← Quotient

Divisor → 10) 45 ← Dividend

– 40

5 ← Remainder

(d)

20 ← Quotient

Divisor → 10) 207 ← Dividend

– 20

7 ← Remainder

(e)

220 ← Quotient

Divisor → 10) 2208 ← Dividend

– 20

20

– 20

08 ← Remainder

(f)

88 ← Quotient

Divisor → 10) 888 ← Dividend

– 80

88

– 80

08 ← Remainder

(g)

859 ← Quotient

Divisor → 10) 8590 ← Dividend

– 80

59

– 50

90

– 90

0 ← Remainder

		Dividend	Quotient	Remainder
(a)	50 ÷ 10	50	5	0
(b)	65 ÷ 10	65	6	5
(c)	45 ÷ 10	45	4	5
(d)	207 ÷ 10	207	20	7
(e)	2208 ÷ 10	2208	22	8
(f)	888 ÷ 10	888	88	8
(g)	8590 ÷ 10	8590	859	0

Exercise 5.8

1. Total number of biscuits = 84

Number of children = 4

Biscuits given to each child = 84 ÷ 4

= 21

21

4) 84

– 8

04

– 4

0

Answer: 21 biscuits were given to each child.

2. Total number of pens = 904

Number of boxes = 8

Number of pens in each box = 904 ÷ 8

= 113

$$\begin{array}{r} 113 \\ 8\overline{)\,904} \\ -\,8\downarrow \\ \hline 10 \\ -\,8\downarrow \\ \hline 24 \\ -\,24 \\ \hline 0 \end{array}$$

Answer: Each box contains 113 pens.

3. Total number of chairs = 360

Number of rows = 9

Number of chairs in each row = 360 ÷ 9

= 40

$$\begin{array}{r} 40 \\ 9\overline{)\,360} \\ -\,36\downarrow \\ \hline 00 \end{array}$$

Answer: Each row has 40 chairs.

4. Total distance car travelled = 636

Number of days car travelled = 6

Total distance car travelled in 1 day = 636 ÷ 6

= 106

$$\begin{array}{r} 106 \\ 6\overline{)\,636} \\ -\,6\downarrow\downarrow \\ \hline 036 \\ -\,36 \\ \hline 0 \end{array}$$

Answer: The car travelled 106 km in one day

5. Cost of radio sets = 825

Number of radio sets = 3

Cost of 1 radio set = 825 ÷ 3

= 275

$$\begin{array}{r} 275 \\ 3\overline{)\,825} \\ -\,6\downarrow \\ \hline 22 \\ -\,21\downarrow \\ \hline 15 \\ -\,15 \\ \hline 0 \end{array}$$

Answer: Cost of one radio set is ₹ 275.

6. Total number of shirts = 680

Shirts in 1 pack = 6

Number of packs = 680 ÷ 6

= 116

Number of left over shirts = 2

Answer: 116 packs can be made by shopkeeper with 2 left over shirts.

$$\begin{array}{r} 113 \\ 6\overline{)\,680} \\ -\,6\downarrow \\ \hline 08 \\ -\,6\downarrow \\ \hline 20 \\ -\,18 \\ \hline 2 \end{array}$$

7. Total money Rohan had = ₹ 600

Cost of 1 shirt = ₹ 150

Total number of shirts = 600 ÷ 150

= 4

$$\begin{array}{r} 4 \\ 150\overline{)\,600} \\ -\,600 \\ \hline 000 \end{array}$$

Answer: Rohan bought 4 shirts of ₹150 each.

8. Total amount for producing mask = ₹2000

Cost of 1 mask = ₹4

Total number of masks = 2000 ÷ 4

= 500

$$\begin{array}{r} 500 \\ 4\overline{)\,2000} \\ -\,20\downarrow\downarrow \\ \hline 000 \end{array}$$

Answer: 500 masks can be produced in ₹2000, if cost of each mask is ₹4.

Learning Updates

1. (a) $18 \div \mathbf{2} = 9$ (b) $54 \div \mathbf{9} = 6$

(c) $36 \div \mathbf{4} = 9$ (d) $36 \div \mathbf{9} = 4$

(e) $20 \div \mathbf{5} = 4$ (f) $91 \div \mathbf{13} = 7$

(g) $36 \div \mathbf{6} = 6$ (h) $90 \div \mathbf{15} = 6$

2. (a) $\mathbf{48} \div 6 = 8$ (b) $\mathbf{32} \div 4 = 8$

(c) $\mathbf{117} \div 9 = 13$ (d) $\mathbf{78} \div 6 = 13$

(e) $\mathbf{44} \div 4 = 11$ (f) $\mathbf{140} \div 10 = 14$

(g) $\mathbf{42} \div 6 = 7$ (h) $\mathbf{108} \div 9 = 12$

3. (a)

$$\begin{array}{r} 4 \\ 6\overline{)24} \\ -24 \\ \hline 0 \end{array}$$

$24 \div 6 = \mathbf{4}$

(b)

$$\begin{array}{r} 17 \\ 5\overline{)85} \\ -5\downarrow \\ \hline 35 \\ -35 \\ \hline 0 \end{array}$$

$85 \div 5 = \mathbf{17}$

(c)

$$\begin{array}{r} 10 \\ 7\overline{)70} \\ -7\downarrow \\ \hline 00 \end{array}$$

$70 \div 7 = \mathbf{10}$

(d)

$$\begin{array}{r} 26 \\ 3\overline{)78} \\ -6\downarrow \\ \hline 18 \\ -18 \\ \hline 0 \end{array}$$

$78 \div 3 = \mathbf{26}$

(e)

$$\begin{array}{r} 30 \\ 3\overline{)90} \\ -9\downarrow \\ \hline 00 \end{array}$$

$90 \div 3 = \mathbf{30}$

(f)

$$\begin{array}{r} 10 \\ 10\overline{)100} \\ -10\downarrow \\ \hline 00 \end{array}$$

$100 \div 10 = \mathbf{10}$

(g)

$$\begin{array}{r} 114 \\ 8\overline{)912} \\ -8\downarrow \\ \hline 11 \\ -8\downarrow \\ \hline 32 \\ -32 \\ \hline 0 \end{array}$$

$912 \div 8 = \mathbf{114}$

(h)

$$\begin{array}{r} 49 \\ 2\overline{)98} \\ -8\downarrow \\ \hline 18 \\ -18 \\ \hline 0 \end{array}$$

$98 \div 2 = \mathbf{49}$

4. (a)

$$\begin{array}{r} 119 \\ 6\overline{)715} \\ -6\downarrow \\ \hline 11 \\ -6\downarrow \\ \hline 55 \\ -54 \\ \hline 1 \end{array}$$

Quotient = 119, Remainder = 1

Check: Dividend = Divisor × Quotient + Remainder

$715 = 6 \times 119 + 1$

$715 = 714 + 1$

$715 = 715$

Thus, the division is correct.

(b)

$$\begin{array}{r} 61 \\ 8\overline{)493} \\ -48\downarrow \\ \hline 13 \\ -8 \\ \hline 5 \end{array}$$

Quotient = 61, Remainder = 5

Check: Dividend = Divisor × Quotient + Remainder

$493 = 8 \times 61 + 5$

$493 = 488 + 5$

$493 = 493$

Thus, the division is correct.

(c)

$$\begin{array}{r} 176 \\ 4\overline{)705} \\ -4\downarrow \\ \hline 30 \\ -28\downarrow \\ \hline 25 \\ -24 \\ \hline 1 \end{array}$$

Quotient = 176, Remainder = 1

Check: Dividend = Divisor × Quotient + Remainder

$705 = 4 \times 176 + 1$

$705 = 704 + 1$

$705 = 705$

Thus, the division is correct.

(d)
$$\begin{array}{r} 292 \\ 4\overline{)1170} \\ -8\downarrow \\ \hline 37 \\ -36\downarrow \\ \hline 10 \\ -8 \\ \hline 2 \end{array}$$

Quotient = 292, Remainder = 2

Check: Dividend = Divisor × Quotient + Remainder

$1170 = 4 \times 292 + 2$

$1170 = 1168 + 2$

$1170 = 1170$

Thus, the division is correct.

(e)
$$\begin{array}{r} 988 \\ 3\overline{)2965} \\ -27\downarrow \\ \hline 26 \\ -24\downarrow \\ \hline 25 \\ -24 \\ \hline 1 \end{array}$$

Quotient = 987, Remainder = 1

Check: Dividend = Divisor × Quotient + Remainder

$2965 = 3 \times 988 + 1$

$2965 = 2964 + 1$

$2965 = 2965$

Thus, the division is correct.

(f)
$$\begin{array}{r} 122 \\ 9\overline{)1099} \\ -9\downarrow \\ \hline 19 \\ -18\downarrow \\ \hline 19 \\ -18 \\ \hline 1 \end{array}$$

Quotient = 122, Remainder = 1

Check: Dividend = Divisor × Quotient + Remainder

$1099 = 9 \times 122 + 1$

$1099 = 1098 + 1$

$1099 = 1099$

Thus, the division is correct.

5. (a)
$$\begin{array}{r} 27 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 3\overline{)82} \leftarrow \text{Dividend} \\ -6\downarrow \\ \hline 22 \\ -21 \\ \hline 1 \leftarrow \text{Remainder} \end{array}$$

(b)
$$\begin{array}{r} 15 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 5\overline{)79} \leftarrow \text{Dividend} \\ -5\downarrow \\ \hline 29 \\ -25 \\ \hline 4 \leftarrow \text{Remainder} \end{array}$$

(c)
$$\begin{array}{r} 147 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 6\overline{)882} \leftarrow \text{Dividend} \\ -6\downarrow \\ \hline 28 \\ -24\downarrow \\ \hline 42 \\ -42 \\ \hline 0 \leftarrow \text{Remainder} \end{array}$$

(d)
$$\begin{array}{r} 242 \leftarrow \text{Quotient} \\ \text{Divisor} \rightarrow 4\overline{)971} \leftarrow \text{Dividend} \\ -8\downarrow \\ \hline 17 \\ -16\downarrow \\ \hline 11 \\ -8 \\ \hline 3 \leftarrow \text{Remainder} \end{array}$$

(e) Divisor → 8) 800 ← Dividend

Quotient → 100

$$\begin{array}{r} 100 \\ 8\overline{)\,800} \\ -\ 8\downarrow\downarrow \\ \hline 000 \\ \hline \end{array}$$

Remainder → 000

(f) Divisor → 10) 892 ← Dividend

Quotient → 89

$$\begin{array}{r} 89 \\ 10\overline{)\,892} \\ -\ 80\downarrow \\ \hline 92 \\ -\ 90 \\ \hline 02 \\ \hline \end{array}$$

Remainder → 02

	Dividend	Divisor	Quotient	Remainder
(a)	82	3	27	1
(b)	79	5	15	4
(c)	882	6	147	0
(d)	971	4	242	3
(e)	800	8	100	0
(f)	892	10	89	2

6. (a) Total number of hours = 72

Number of hours in a day = 24

$$\begin{array}{r} 3 \\ 24\overline{)\,72} \\ -\ 72 \\ \hline 0 \\ \hline \end{array}$$

Number of days in 72 hours = 72 ÷ 24

= 3

Answer: 72 hours make 3 days.

(b) Total number of umbrellas = 5

Cost of umbrellas = 500

$$\begin{array}{r} 100 \\ 5\overline{)\,500} \\ -\ 5\downarrow\downarrow \\ \hline 000 \\ \hline \end{array}$$

Cost of 1 umbrella = 500 ÷ 5

= 100

Answer: Cost of 1 umbrella is ₹ 100.

(c) Product of 2 numbers = 720

First number = 8

$$\begin{array}{r} 90 \\ 8\overline{)\,720} \\ -\ 72\downarrow \\ \hline 00 \\ \hline \end{array}$$

Second number = 720 ÷ 8

= 90

Answer: Second number is 90.

(d) Number of trees planted = 891

Number of people planted trees = 9

$$\begin{array}{r} 99 \\ 9\overline{)\,891} \\ -\ 81\downarrow \\ \hline 81 \\ -\ 81 \\ \hline 0 \\ \hline \end{array}$$

Number of trees planted by each of them

= 891 ÷ 9

= 99

Answer: 99 trees were planted by each of them.

(e) Total number of notebooks distributed = 865

Notebook given to each child = 6

$$\begin{array}{r} 144 \\ 6\overline{)\,865} \\ -\ 6\downarrow \\ \hline 26 \\ -\ 24 \\ \hline 25 \\ -\ 24 \\ \hline 1 \\ \hline \end{array}$$

Number of children got the notebook

= 865 ÷ 6 = 144

Number of notebook left = 1

Answer: 144 children got the notebook with 1 left over notebook.

7. (a) $8 \div 4 \neq 2$

$2 \neq 10$

Hence, the statement is false.

$$\begin{array}{r} 2 \\ 4\overline{)\,8} \\ -\,8 \\ \hline 00 \end{array}$$

(b) $80 \div 8 = 10$

$10 = 10$

Hence, the statement is true.

$$\begin{array}{r} 10 \\ 8\overline{)\,80} \\ -\,8\downarrow \\ \hline 00 \end{array}$$

(c) This statement is true as a we cannot divide a smaller number from a greater number.

(d) This statement is false as any number divided by itself is 1.

(e) This statement is false as any remainder is always smaller than divisor.

Multiple Choice Questions

1. Divisor → 2 ☐☐ ← Dividend, Quotient ← 15

Dividend = Divisor × Quotient + Remainder

$= 2 \times 15 + 0$

$= 30$

42	30 ✓	28	49

2. Divisor → 5 ☐☐☐ ← Dividend, Quotient ← 27

Dividend = Divisor × Quotient + Remainder

$= 5 \times 27 + 0$

$= 135$

422	102	103	135 ✓

3. Divisor → 3 ☐☐ ← Dividend, Quotient ← 18

Dividend = Divisor × Quotient + Remainder

$= 3 \times 18 + 0$

$= 54$

58	30	54 ✓	49

4. Divisor → 9 ☐☐☐ ← Dividend, Quotient ← 89

Dividend = Divisor × Quotient + Remainder

$= 9 \times 89 + 0$

$= 801$

801 ✓	695	810	758

Skills Check

1.

$$\begin{array}{r} \boxed{2}\ 4 \\ 4\overline{)\,9\ 6} \\ -\,8\ \downarrow \\ \hline 1\ \boxed{6} \\ -\ \boxed{1}\ \boxed{6} \\ \hline 0 \end{array}$$

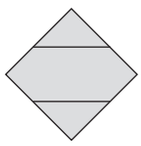
2.

$$\begin{array}{r} 1\ \boxed{0}\ 5 \\ 6\overline{)\,6\ 3\ 5} \\ -\ \boxed{6}\ \downarrow \\ \hline 0\ 3 \\ -\ 0 \\ \hline 3\ 5 \\ -\ \boxed{3}\ \boxed{0} \\ \hline \boxed{5} \end{array}$$

6 Fractions

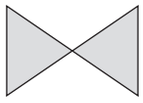
Exercise 6.1

1. (a)



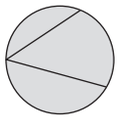
No

(b)



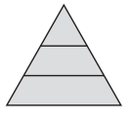
Yes

(c)



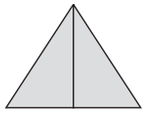
No

(d)



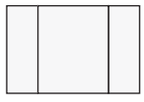
No

(e)



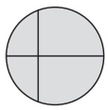
Yes

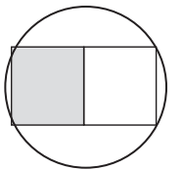
(f)

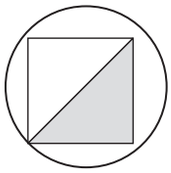


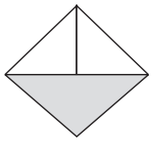
No

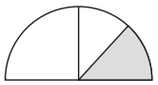
(g)  Yes

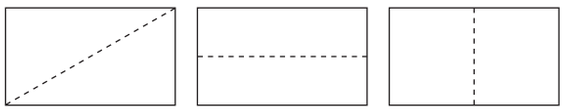
(h)  No

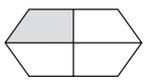
2. (a) 

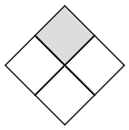
(b) 

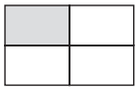
(c) 

(d) 

3. 

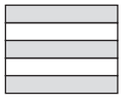
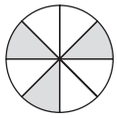
4. (a) 

(b) 

(c) 

(d) 

5.

	Figure	Number of coloured parts	Total number of equal parts	Fraction for shaded parts	Fraction for unshaded parts
(a)		3	5	$\frac{3}{5}$	$\frac{2}{5}$
(b)		7	10	$\frac{7}{10}$	$\frac{3}{10}$
(c)		3	8	$\frac{3}{8}$	$\frac{5}{8}$

Exercise 6.2

1. (a) 2 halves make a whole

$$\frac{1}{2} + \frac{1}{2} = \frac{1+1}{2}$$

$$\Rightarrow \quad \frac{2}{2} = 1$$

(b) Three thirds make a whole

$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{1+1+1}{3}$$

$$\Rightarrow \quad \frac{3}{3} = 1$$

(c) one quarter = $\frac{1}{4}$

Four quarter makes a whole

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{1+1+1+1}{4}$$

$$\Rightarrow \quad \frac{4}{4} = 1$$

(d) Five one-fifth make a whole

$$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{1+1+1+1+1}{5}$$

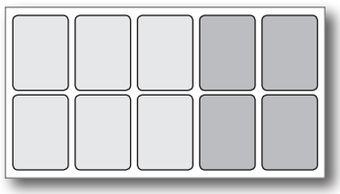
$$\Rightarrow \quad \frac{5}{5} = 1$$

2. (a) Total number of white papers = 10

Number of papers Vanya want for colouring = 6

Number of papers left = 10 – 6 = 4

(b) Number of papers taken by Vanya = 6



3. (a) Colour one leaf in every 4 leaves

$= \frac{2}{8}$

(b) Colour 3 balls in every 4 balls

$= \frac{6}{8}$

(c) Colour 1 apple in every 2 balls

$= \frac{5}{10}$

(d) Colour 2 ice creams in every 3 each ice creams

$= \frac{8}{12}$

Exercise 6.3

1. (b) $12 \div 2 = 6$

$\frac{1}{2}$ of $12 = 6$

(c) $6 \div 2 = 3$

$\frac{1}{2}$ of $6 = 2$

(d) $14 \div 2 = 7$

$\frac{1}{2}$ of $14 = 7$

2. (b) $15 \div 3 = 5$

$\frac{1}{3}$ of $15 = 5$

(c) $12 \div 3 = 4$

$\frac{1}{3}$ of $12 = 4$

(d) $6 \div 3 = 2$

$\frac{1}{3}$ of $6 = 2$

3. (b) $12 \div 4 = 3$

$\frac{1}{4}$ of $12 = 3$

(c) $16 \div 4 = 4$

$\frac{1}{4}$ of $16 = 4$

(d) $8 \div 4 = 2$

$\frac{1}{4}$ of $8 = 2$

4. (a) $\frac{1}{2}$ of 14 = **7**

(b) $\frac{1}{3}$ of 24 = **8**

(c) $\frac{1}{4}$ of 20 = **5**

(d) $\frac{1}{2}$ of 46 = **23**

(e) $\frac{1}{3}$ of 69 = **23**

(f) $\frac{1}{4}$ of 44 = **11**

(g) $\frac{1}{2}$ of 84 = **42**

(h) $\frac{1}{3}$ of 90 = **30**

(i) $\frac{1}{4}$ of 88 = **22**

Exercise 6.4

1. Total number of frocks Natasha has = 10

Number of pink frocks = 7

Number of yellow frocks = Total number frocks – Number of pink frocks

$= 10 - 7$

$= 3$

Fraction representing total frocks = $\frac{10}{10}$

Fraction representing pink frocks = $\frac{7}{10}$

Fraction representing yellow frocks = $\frac{3}{10}$

2. Total questions = 20

Number of questions solved = 12

Number of unsolved questions = Total questions – Number of questions solved

$= 20 - 12$

$= 8$

Fractions representing unsolved questions = $\frac{8}{20}$

3. Raju's total pocket money = ₹ 90

(a) Money spent on stationery = $\frac{1}{3}$ of 90 (or $90 \div 3$)

= ₹ 30

Money spent on toys = $\frac{1}{3}$ of 90 (or $90 \div 3$)

= ₹ 30

Money spent on stationery and toys together

= ₹ 30 + ₹ 30

= ₹ 60

(b) Money left with him = Total money – (Money spent on stationery and toys together

$= 90 - 60$

= ₹ 30

Thus, Raju spent ₹ 60 on toys and stationery together and ₹ 30 were left with him.

4. Total number of pages in book = 32

Number of pages read = 15

Number of pages left to read = Total number of pages – Number of pages read

$= 32 - 15$

= 17 pages

Fraction of pages left for him to read = $\frac{17}{32}$

5. Total number of birds = 12

(a) Birds sitting upon the branches of guava tree

$= \frac{1}{3}$ of 12 (or $12 \div 3$)

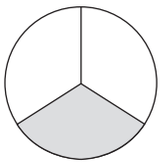
= 4 birds

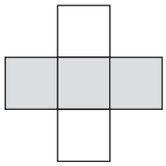
(b) Birds sitting upon the branches of mango tree

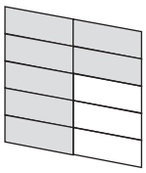
$= \frac{1}{6}$ of 12 (or $12 \div 6$)

= 2 birds

Learning Updates

1. (a) 

(b) 

(c) 

2. (a) To find $\frac{1}{2}$, we have to divide 86 by 2.

$86 \div 2 = 43$

Therefore, $\frac{1}{2}$ of $86 = 43$

(b) To find $\frac{1}{4}$ of 32, we have to divide 32 by 4.

$32 \div 4 = 8$

Therefore, $\frac{1}{4}$ of $32 = 8$

(c) To find $\frac{1}{3}$ of 60, we have to divide 60 by 3.

$60 \div 3 = 20$

Therefore, $\frac{1}{3}$ of $60 = 20$

(d) To find $\frac{1}{3}$ of 99, we have to divide 99 by 3.

$99 \div 3 = 33$

Therefore, $\frac{1}{3}$ of $99 = 33$

(e) To find $\frac{1}{4}$ of 68, we have to divide 68 by 4.

$68 \div 4 = 17$

Therefore, $\frac{1}{4}$ of $68 = 17$

(f) To find $\frac{1}{9}$ of 63, we have to divide 63 by 9.

$63 \div 9 = 7$

Therefore, $\frac{1}{9}$ of $63 = 7$

3. (b) Three (c) Two

(d) Six (e) Ten

(f) Seven

4. (a) Number of pens in a packet = 12

Number of pens used = $\frac{1}{4}$ of total pens

$= \frac{1}{4}$ of 12 (or $12 \div 4$)

$= 3$ pens

Number of pens left with her = Total number of pens – Number of pens usesd

$= 12 - 3$

$= 9$ pens

(b) Total number of students in class = 25

Number of girls = 10

Fraction girls have = $\frac{10}{25}$

(c) Total number of candles on cake = 9

Number of candles blown = $\frac{1}{\cancel{3}} \times \cancel{9}^{3}$

$= \frac{1}{3}$ of total candles

$= \frac{1}{3}$ of 9 (or $9 \div 3$)

$= 3$ candles

Thus, Shruti blowed 10 candles.

5. (a) Number of hours in a day = 24

$\frac{1}{2}$ of day $= \frac{1}{2}$ of 24 or $24 \div 2$

$= 12$ hours

(b) 1 dozen = 12

$\frac{1}{4}$ of dozen $= \frac{1}{4}$ of 12 or $12 \div 4$

$= 3$

(c) 1 year = 12 months

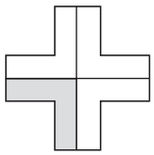
$\frac{1}{3}$ of a year $= \frac{1}{3}$ of 12 or $12 \div 3$

$= 4$ months

Multiple Choice Questions

1. (b) 

2. (b) $\frac{1}{4}$



3. Total alphabet in the word MATHEMATICS = 11

Number of time alphabet 'A' occurs in the word MATHEMATICS = 2

Fraction represented by letter A in the word MATHEMATICS = $\frac{2}{11}$

Answer: (c) $\frac{2}{11}$

4. Total number of colours in a rainbow = 7

Fraction for each colour in rainbow = $\frac{1}{7}$

Answer: (d) $\frac{1}{7}$

5. Total number of colours in our National Flag = 3

Number of times white colour comes in our National Flag = 1

Fraction of our National Flag is white = $\frac{1}{3}$

Answer: (b) $\frac{1}{3}$

Skills Check

Total number of toffees with Garima = 30

Toffees given to Kareena = $\frac{1}{3}$ of 30 or $30 \div 3$

= 10 toffees

Toffees given to Saransh = $\frac{1}{6}$ of 30 or $30 \div 6$

= 5 toffees

Thus, Garima gave 10 toffees to Kareena and 5 toffees to Saransh.

7 Geometry

Exercise 7.1

1. (a) Line (b) Ray
(c) Line segment (d) Line

2. (a) $\overline{AB}$, $\overline{BC}$, $\overline{AC}$
(b) $\overline{BE}$, $\overline{ES}$, $\overline{ST}$, $\overline{TB}$
(c) $\overline{AL}$, $\overline{LE}$, $\overline{EG}$, $\overline{GN}$, $\overline{NA}$

3. 8 Rays OA, OB, OE, OD, OC, OF, OG, OH

4. (a) No (b) $\overline{AB}$
(c) Two (d) Point
(e) Positions (f) definite

Exercise 7.2

1. (a) Circle (b) Triangle
(c) Square (d) Rectangle

2. (a) 3 (b) 4

3. (a) 2 (b) 8
(c) 4

4. (a) Rectangle (b) Rectangle
(c) Circle (d) Rectangle
(e) Circle (f) Triangle

Exercise 7.3

1. (a) No (b) Yes
(c) Yes (d) 2
(e) No (f) No
(g) 0

2. Lunch Box, Eraser

3. Ball, Pearl

4.

		Number of faces	Number of plane face	Number of cured faces	Number of edges	Number of vertices
(a)	Cylinder	3	2	1	2	0
(b)	Cuboid	6	6	–	12	8
(c)	Cube	6	6	–	12	8
(d)	Cone	2	1	1	1	1

Learning Updates

1. (a) Opposite (b) Curved
(c) 3, 3 (d) 0
(e) 4, 4

2. (a) Cuboid (b) Cube
(c) Cylinder (d) Cone
(e) Sphere (f) Hemispher

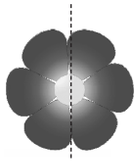
3. (a) △ = 5, □ = 1, ▭ = 2
(b) △ = 12, □ = 2, ▭ = 1

Multiple Choice Questions

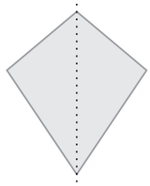
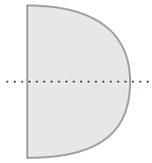
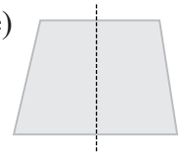
1. (a) 4
2. (a) 2
3. (d) None of these
4. (c) Ray
5. (b) 3

8 Symmetry and Pattern

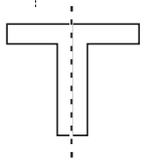
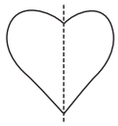
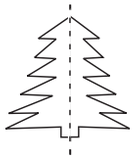
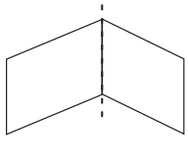
Get Started

Exercise 8.1

1. (b) 
(c) 
(e) 

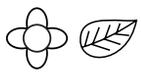
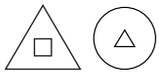
2. (a) 
(b) 
(c) 
(d) 
(e) 
(f) 

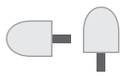
3. (a) 
(b) 
(c) 
(d) 
(e) 
(f) 

Exercise 8.2

1. (a)  (b) 

(c)  (d) 

2. (a)  (b) 

(c)  (d) 

3. (a) fg, gh, hi, ij (b) 47, 53, 59

(c) 15, 14, 13 (d) 40, 48, 56

(e) Ee, Ff, Gg (f) 25, 30, 35

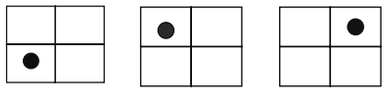
(g) 1041, 1051, 1061

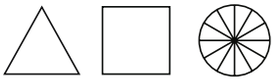
Learning Updates

1. (a)  (b) 

(c)  (d) 

2. Infinite

3. (a) 

(b) 

(c) D14 E15 F16

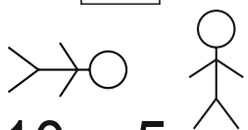
(d) 5 4 3

(e) MNO PQR STU

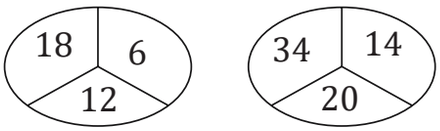
4. (a)

9	3
27	

9	4
36	

(b) 

(c) 10 5

(d) 

Skills Check

1. B, C, D, E, K, O, H, Z

9 Measurement of Length

Get Started

cm, cm, km, m, cm

Exercise 9.1

1. (a) km (b) cm

(c) m (d) cm

(e) cm (f) m

2. (a)  = 11.38cm

(b)  = 12.70cm

(c)  = 12.90cm

(d)  = 6cm

(e)  = 5.60cm

(f)  = 2.32cm

Exercise 9.2

1. (a) 8 m into cm

1 m = 100 cm

8 m = (8 × 100) cm = 800 cm

Answer: 8 m = 800 cm

(b) 32 m into cm

1 m = 100 cm

32 m = (32 × 100) cm = 3200 cm

Answer: 32 m = 3200 cm

(c) 97 m into cm

1 m = 100 cm

97 m = (97 × 100) cm = 9700 cm

Answer: 97 m = 9700 cm

(d) 6 m 4 cm into cm

1 m = 100 cm

6 m = (6 × 100) cm + 40 cm

= 600 cm + 40 cm = 640 cm

Answer: 6 m 40 cm = 640 cm

(e) 19 m 7 cm into cm

1 m = 100 cm

19 m 7 cm = (19 × 100) cm + 7 cm

= 1900 cm + 7 cm = 1907 cm

Answer: 19 m 7 cm = 1907 cm

(f) 52 m 47 cm into cm

1 m = 100 cm

52 m 47 cm = (52 × 100) cm + 47 cm

= 5200 cm + 47 cm = 5247 cm

Answer: 52 m 47 cm = 5247 cm

(g) 75 m 46 cm into cm

1 m = 100 cm

75 m 46 cm = (75 × 100) cm + 46 cm

= 7500 cm + 46 cm = 7546 cm

Answer: 75 m 46 cm = 7546 cm

2. (a) 3 km

1 km = 1000 m

3 km = (3 × 1000) m = 3000 m

Answer: 3 km = 3000 m

(b) 8 km

1 km = 1000 m

8 km = (8 × 1000) m = 8000 m

Answer: 8 km = 8000 m

(c) 5 km

1 km = 1000 m

5 km = (5 × 1000) m = 5000 m

Answer: 5 km = 5000 m

(d) 5 km 400 m

1 km = 1000 m

5 km 400 m = (5 × 1000) m + 400 m

= 5000 m + 400 m = 5400 m

Answer: 5 km 400 m = 5400 m

(e) 8 km 715 m

1 km = 1000 m

8 km 715 m = (8 × 1000) m + 715 m

= 8000 m + 715 m = 8715 m

Answer: 8 km 715 m = 8715 m

(f) 2 km 5 m

1 km = 1000 m

2 km 5 m = (2 × 1000) m + 5 m

= 2000 m + 5 m = 2005 m

Answer: 2 km 5 m = 2005 m

(g) 6 km 105 m

1 km = 1000 m

6 km 105 m = (6 × 1000) m + 105 m

= 6000 m + 105 m = 6105 m

Answer: 6 km 105 m = 6105 m

Exercise 9.3

1. (a)

	m			cm	
	(1)				
	3	7	9	2	6
+	7	0	4	4	1
1	0	8	3	6	7

Answer: 1083 m 67 cm

(b)

	m			cm	
(1)	(1)			(1)	
7	4	8		4	8
+	9	5		3	9
8	4	3		8	7

Answer: 843 m 87 cm

(c)

	m			cm	
	(1)	(1)	(1)	(1)	
	2	1	6	7	3
+	9	8	8	8	9
	1	2	0	5	6	2

Answer: 1205 m 62 cm

(d)

	km			m		
				(1)	(1)	
	2	6	4	1	6	6
+	4	0	5	7	4	5
	6	6	9	9	1	1

Answer: 669km 911m

(e)

	km			m		
	(1)	(1)		(1)		
	6	3	7	9	6	0
+	2	0	8	0	8	5
	8	4	6	0	4	5

Answer: 846 km 45 m

(f)

	km				m		
	(1)	(1)	(1)		(1)		
	9	6	6		7	1	7
+	3	7	8		9	0	9
	1	3	4	5	6	2	6

Answer: 1345 km 626 m

2. An almirah can be measured m not in km.
Hence, the correct measurement is 24 m 16 cm.

Exercise 9.4

1. (a)

	m			cm	
	5	14		7	11
2	~~6~~	~~4~~		~~8~~	~~1~~
– 1	2	5		2	8
1	3	9		5	3

Answer: 139 m 53 cm

(b)

	m			cm	
	8	16			
	~~9~~	~~6~~	8	4	9
–	5	7	4	2	4
	3	9	4	2	5

Answer: 394 m 25 cm

(c)

	m			cm	
	5	13			
	~~6~~	~~3~~	8	1	6
–	3	4	5	0	4
	2	9	3	1	2

Answer: 293 m 12 cm

(d)

	km			m	
				9	
		6		11	~~10~~ 10
	3	~~7~~		~~2~~	~~0~~ ~~0~~
–	1	5		4	0 4
	2	1		7	9 6

Answer: 21 km 796 m

(e)

	km			m	
		6		10	3 12
	7	~~7~~		~~0~~	~~4~~ ~~2~~
–	2	2		7	0 3
	5	4		3	3 9

Answer: 54 km 339 m

(f)

	km			m	
				14	
				1	~~4~~ 16
	3	9	8	~~2~~	~~5~~ ~~6~~
–		5	6	0	8 7
	3	4	2	1	6 9

Answer: 342 km 169 m

2. (a)

	m			cm	
	4	5		1	3
–	2	4		1	0
	2	1		0	3

Answer: 21 m 3 cm

(b)

	m			cm	
		9	9		
	7	~~10~~	~~10~~	10	15
	~~8~~	~~0~~	~~0~~	~~1~~	~~5~~
–				7	8
	7	9	9	3	7

Answer: 799 m 37 cm

(c)

	km				m	
		9				
	5	~~10~~	10		2	14
	~~6~~	~~0~~	~~0~~	7	~~3~~	~~4~~
–	1	5	6		1	6
	4	4	4	7	1	8

Answer: 444 m 718 cm

(d)

		km			m	
		10			7	12
	~~1~~	~~0~~	3	9	~~8~~	~~2~~
–		7	0	9	5	8
		3	3	0	2	4

Answer: 330 m 24 cm

Exercise 9.5

1. Length of cotton cloth bought by Garwit's mother = 109 m 38 cm

Length of rayon cloth bought by Garwit's mother = 236 m 72 cm

Cloth she bought together

= 109 m 38 cm + 236 m 72 cm

	m			cm	
		(1)	(1)	(1)	
	1	0	9	3	8
+	2	3	6	7	2
	3	4	6	1	0

Answer: Garwit's mother bought 346 m 10 cm of cloth.

2. Height of first wall = 821 m 69 cm

Height of second wall = 832 m 5 cm

821 m 69 cm < 832 m 5 cm

First wall < Second wall

	m			cm	
				9	
			1	~~10~~	15
	8	3	~~2~~	~~0~~	~~5~~
–	8	2	1	6	9
	0	1	0	3	6

Answer: Wall measuring 832 m 5 cm is longer by 10 m 36 cm

3. Height of first tree = 122 m 90 cm

Height of second tree = 120 m 12 cm

Height of third tree = 146 m 74 cm

Total height 122 m 90 cm + 120 m 12 cm + 146 m 74 cm

	m			cm	
			(1)		
	1	2	2	9	0
	1	2	0	1	2
+	1	4	6	7	4
	3	8	9	7	6

Answer: The total height of the 3 trees is 389 m 76 cm

4. Distance between railway station and house

= 428 km 206 m

Distance between airport and house

= 419 km 80 m

Kilometres of railway station farther than airport from house

= 428 km 206 m – 419 km 80 m

= 9 km 126 m

	km			m		
		1	18	1	10	
	4	~~2~~	~~8~~	~~2~~	~~0~~	6
–	4	1	9	0	8	0
	0	0	9	1	2	6

Answer: Railway station is 9 km 126 m farther than airport from house.

5. Distance of first side of the park = 5 m 20 cm
Distance of second side of the park = 18 m 16 cm
Distance of third side of the park = 32 m 46 cm
Distance of fourth side of the park = 47 m 8 cm
Distance Mr. Agroha run in one round
= 5 m 20 cm + 18 m 16 cm + 32 m 46 cm + 47 m 8 cm
= 102 m 90 cm

	m			cm	
	(2)			(2)	
		5		2	0
	1	8		1	6
	3	2		4	6
+	4	7		0	8
	1 0	2		9	0

Answer: Mr. Agroha run 102 m 90 cm in one round.

Learning Updates

1. (a) 1 m = (100) cm (b) 1 km = (1000) m

2. (a) 6 m into cm
1 m = 100 cm
6 m = (6 × 100) cm = 600 cm

(b) 35 m into cm
1 m = 100 cm
35 m = (35 × 100) cm = 3500 cm

(c) 19 m 5 cm into cm
1 m = 100 cm
19 m 5 cm = (19 × 100) cm + 5 cm
= 1900 cm + 5 cm
= 1905 cm

(d) 56 m 52 cm into cm
1 m = 100 cm
56 m 52 cm = (56 × 100) cm + 52 cm
= 5600 cm + 52 cm
= 5652 cm

3. (a) 2 km 102 m into m
1 km = 1000 m
2 km 102 m = (2 × 1000) m + 102 m
= 2000 m + 102 m
= 2102 m

(b) 5 km 816 m into m
1 km = 1000 m
5 km 816 m = (5 × 1000) m + 816 m
= 5000 m + 816 m
= 5816 m

(c) 3 km 76 m into m
1 km = 1000 m
3 km 76 m = (3 × 1000) m + 76 m
= 3000 m + 76 m
= 3076 m

(d) 8 km 19 m into m
1 km = 1000 m
8 km 19 m = (8 × 1000) m + 19 m
= 8000 m + 19 m = 8019 m

4. (a)

	m			cm	
	(1)	(1)		(1)	
	3	5		8	7
+	0	7		1	3
	4	3		0	0

Answer: 43 cm

(b)

	m			cm	
	(1)			(1)	
	2	9		0	8
+	5	3		0	7
	8	2		1	5

Answer: 82 m 15 cm

(c)

	km			m		
	(1)			(1)	(1)	
	0	9		3	0	6
+	1	2			9	8
	2	1		4	0	4

Answer: 21 km 404 m

(d)

	km			m	
				(1)	
	2	1	7	2	2
+	5	2		4	9
	7	3	7	7	1

Answer: 73 km 771 m

5. (a)

	m		cm	
		11		
	8	~~1~~	10	
	~~9~~	~~2~~	~~0~~	7
–	1	8	8	6
	7	3	2	1

Answer: 73 m 21 cm

(b)

	m		cm	
		11		
	5	~~1~~	18	
	~~6~~	~~2~~	~~8~~	8
–	2	8	9	8
	3	3	9	0

Answer: 33 m 90 cm

(c)

	km		m		
				8	10
	9	8	9	~~9~~	0
–	8	4	3	3	3
	1	4	6	5	7

Answer: 14 km 657 m

(d)

	km			m		
		16	9			
	5	~~6~~	~~10~~	10		
	~~6~~	~~7~~	~~0~~	~~0~~	7	6
–		7	9	4	2	2
	5	9	0	6	5	4

Answer: 590 km 654 m

6. Length of red ribbon = 8 m 28 cm

Length of green ribbon = 7 m 32 cm

Total length bought by Sanjana = Length of red ribbon + Length of green ribbon

= 8 m 28 cm + 7 m 32 cm

= 15 m 60 cm

	m		cm	
	(1)		(1)	
	0	8	2	8
+	0	7	3	2
	1	5	6	0

Answer: Total length covered by Sanjana is 15 m 60 cm.

7. Total distance Suresh's boat sailed = 198 km

Distance Suresh's boat sailed in one day

= 19 km 348 m

Distance Suresh's boat sailed on another

= Total distance – Distance covered in one day

= 198 km – 19 km 348 m

	km			m		
			17	9	9	
		8	~~7~~	~~10~~	~~10~~	10
	1	~~9~~	~~8~~	~~0~~	~~0~~	~~0~~
–		1	9	3	4	8
	1	7	8	6	5	2

Answer: Total distance Suresh's boat sailed is 178 km 652 m.

8. Distance covered by Kavita = 72 m 26 cm

Distance covered by Sonika = 64 m 42 cm

72 m 26 cm > 64 m 42 cm

Kavita > Sonika

Distance Sonika jogged less than Kavita

= Distance covered by Kavita – Distance covered by Sonika

= 72 m 26 cm – 64 m 42 cm

= 7 m 84 cm

	m		cm	
		11		
	6	~~1~~	12	
	~~7~~	~~2~~	~~2~~	6
–	6	4	4	2
	0	7	8	4

Answer: Sonika jogged less than Kavita by 7 m 84 cm.

Multiple Choice Questions

1. (c) cm **2.** (b) km **3.** (b) meter

4. 42 m 67 cm into cm

1 m = 100 cm

42 m 67 cm = (42 × 100) cm + 67 cm

= 4200 cm + 67 cm

= 4267 cm

Answer: (a) 4267

5. 19 km 58 m into m

1 km = 1000 m

19 km 58 m = (19 × 1000) m + 58 m

= 19000 m + 58 m

= 19058 m

Answer: (b) 19058 m

10 Measurement of Weight

Get Started

2g 40 kg 2 kg 2 mg

Exercise 10.1

1. (a) g (b) g (c) g (d) kg (e) g (f) g (g) kg (h) kg

2. To be done by students

Exercise 10.2

1. (a) 4 kg into g

1 kg = 1000 g

4 kg = (4 × 1000) g

= 4000 g

Answer: 4 kg = 4000 g

(b) 6 kg into g

1 kg = 1000 g

6 kg = (6 × 1000) g

= 6000 g

Answer: 6 kg = 6000 g

(c) 9 kg into g

1 kg = 1000 g

9 kg = (9 × 1000) g

= 9000 g

Answer: 9 kg = 9000 g

(d) 3 kg into g

1 kg = 1000 g

3 kg = (3 × 1000) g

= 3000 g

Answer: 3 kg = 3000 g

(e) 7 kg into g

1 kg = 1000 g

7 kg = (7 × 1000) g

= 7000 g

Answer: 7 kg = 7000 g

(f) 2 kg into g

1 kg = 1000 g

2 kg = (2 × 1000) g

= 2000 g

Answer: 2 kg = 2000 g

2. (a) 7 kg 810 g into g

1 kg = 1000 g

7 kg = (7 × 1000) g + 810 g

= 7000 g + 810 g

= 7810 g

Answer: 7 kg 810 g = 7810 g

(b) 3 kg 602 g into g

1 kg = 1000 g

3 kg = (3 × 1000) g + 602 g

= 3000 g + 602 g

= 3602 g

Answer: 3 kg 602 g = 3602 g

(c) 2 kg 18 g into g

1 kg = 1000 g

2 kg = (2 × 1000) g + 18 g

= 2000 g + 18 g

= 2018 g

Answer: 2 kg 18 g = 2018 g

(d) 5 kg 409 g into g

1 kg = 1000 g

5 kg = (5 × 1000) g + 409 g

= 5000 g + 409 g

= 5409 g

Answer: 5 kg 409 g = 5409 g

(e) 8 kg 5 g into g

1 kg = 1000 g

8 kg = (8 × 1000) g + 5 g

= 8000 g + 5 g

= 8005 g

Answer: 8 kg 5 g = 8005 g

(f) 9 kg 76 g into g

1 kg = 1000 g

9 kg = (9 × 1000) g + 76 g

= 9000 g + 76 g

= 9076 g

Answer: 9 kg 76 g = 9076 g

3. 3 kg 5 g < 2 kg 770 g < 2 kg 78 g < 2 kg < 1 kg 520 g < 1 kg 70 g = DIYTRA

Exercise 10.3

1. (a)

	kg			g		
	(1)					
	4	2		2	0	6
+		8		3	0	0
	5	0		5	0	6

Answer: 50 kg 506 g

(b)

	kg			g		
	5	2		6	1	0
+	3	4		2	5	4
	8	6		8	6	4

Answer: 86 kg 864 g

(c)

	kg			g		
				(1)		
	1	1	4	2	1	8
+		3	3	3	4	2
	1	4	7	5	6	0

Answer: 147 kg 560 g

(d)

	kg			g		
	(1)	(1)				
	1	0	5	5	6	0
+		9	5	1	3	2
	2	0	0	6	9	2

Answer: 200 kg 692 g

(e)

	kg			g		
		(1)	(1)			
		6	2	8	0	0
+		9	6	4	4	4
+		8	2	6	0	4
	2	4	1	8	4	8

Answer: 241 kg 848 g

(f)

	kg			g		
		(1)				
		9	2	2	3	0
+		6	4	1	0	6
+			9	2	0	3
	1	6	5	5	3	9

Answer: 165 kg 539 g

(g)

	kg			g		
				(1)		
		3	3		0	5
+		4	5		5	6
+		9	0	6	0	1
	1	6	8	6	6	2

Answer: 168 kg 662 g

(h)

	kg			g		
		(1)	(1)	(1)	(1)	
		8	4	5	7	6
+		1	2	2	4	0
+		0	9	4	6	9
	1	0	6	2	8	5

Answer: 106 kg 285 g

2. (a)

kg		g		
	(1)			
	7	2	3	0
+	3	8	3	4
1	1	0	6	4

Answer: 11 kg 64 g

(b)

kg		g		
(1)		(1)		
	3	4	5	0
1	5	0	6	0
+ 1	2	1	0	0
3	0	6	1	0

Answer: 30 kg 610 g

(c)

kg		g		
		(1)		
6	0		7	0
+ 1	6	0	5	1
+		3	6	5
7	6	4	8	6

Answer: 76 kg 486 g

(d)

kg			g		
	(1)	(1)			
	7	4	4	3	0
+	5	9	6	4	3
1	3	4	0	7	3

Answer: 134 kg 73 g

Exercise 10.4

1. (a)

kg		g		
			11	
		3	~~1~~	10
6	9	~~4~~	~~2~~	~~0~~
– 3	5	1	2	4
3	4	2	9	6

Answer: 34 kg 296 g

(b)

kg		g		
7	16		7	10
~~8~~	~~6~~	4	~~8~~	~~0~~
–	9	2	0	6
7	7	2	7	4

Answer: 77 kg 274 g

(c)

kg			g		
		15			
	1	~~5~~	10	6	13
3	~~2~~	~~6~~	~~0~~	~~7~~	~~3~~
– 1	0	9	1	1	6
2	1	6	9	5	7

Answer: 216 kg 957 g

(d)

kg			g		
			9	9	
5	10	3	~~10~~	~~10~~	13
~~6~~	~~0~~	~~4~~	~~0~~	~~0~~	~~3~~
– 4	5	3	0	9	4
1	5	0	9	0	9

Answer: 150 kg 909 g

2. (a)

kg		g		
			2	12
7	6	4	~~3~~	~~2~~
– 4	5	3	0	9
3	1	1	2	3

Answer: 31 kg 123 g

(b)

kg			g		
	14				
8	~~4~~	11			
~~9~~	~~5~~	~~1~~	9	2	2
– 5	8	6	6	2	1
3	6	5	3	0	1

Answer: 365 kg 301 g

(c)

kg			g		
7	14	3	10		
~~8~~	~~4~~	~~4~~	~~0~~	7	7
– 3	5	0	2	0	0
4	9	3	8	7	7

Answer: 493 kg 877 g

(d)

kg			g		
4	15		0	15	
~~5~~	~~5~~	5	~~1~~	~~5~~	0
– 2	7	5		6	0
2	8	0	0	9	0

Answer: 280 kg 90 g

Exercise 10.5

1. Total weight of rice = 6 kg 750 g

Total weight of sugar = 4 kg 850 g

Total weight of onions = 2 kg 250 g

Total weight of all the items = Total weight of rice + Sugar + Onions

= 6 kg 750 g + 4 kg 850 g + 2 kg 250 g

= 13 kg 850 g

kg		g		
	(1)	(1)		
	6	7	5	0
+	4	8	5	0
+	2	2	5	0
1	3	8	5	0

Answer: Total weight of all the items is 13 kg 850 g

2. Total weight of sugar = 75 kg 750

Weight of sugar sold = 38 kg 485 g

Weight of sugar left = Total weight of sugar – Weight of sugar sold

= 75 kg 750 g – 38 kg 485 g

= 37 kg 265 g

kg		g		
			14	
6	15	6	~~4~~	10
~~7~~	~~5~~	~~7~~	~~5~~	~~0~~
– 3	8	4	8	5
3	7	2	6	5

Answer: 37 kg 265 g of sugar is left with him.

3. Weight of tin fill with biscuits = 13 kg 60 g

Weight of empty tin = 6 kg 125 g

Weight of biscuits in the tin = Weight of tin fill with biscuits – Weight of empty tin

= 13 kg 60 g – 6 kg 125 g

= 6 kg 935 g

kg		g		
	12			
0	~~2~~	10	5	10
~~1~~	~~3~~	~~0~~	~~6~~	~~0~~
–	6	1	2	5
0	6	9	3	5

Answer: Weight of biscuits in the tin is 6 kg 935 g

4. Mayuri weighed = 64 kg

Weight gained by Mayuri = 2 kg 115 g

Mayuri's weight now = Mayuri weighed + Weight gained by Mayuri

= 64 kg + 2 kg 115 g

= 66 kg 115 g

kg		g		
6	4	0	0	0
+ 0	2	1	1	5
6	6	1	1	5

Answer: Mayuri's weight is 66 kg 115 g.

5. Total weight of 3 bags = 460 kg

Weight of 2 bags = 67 kg 700 g + 60 kg 950 g

Weight of third bag = Total weight of 3 bags – Weight of 2 bags

= 460 kg – 128 kg 650 g

= 321 kg 350 g

kg			g		
		(1)			
	6	7	7	0	0
+	6	0	9	5	0
1	2	8	6	5	0

kg			g		
		9	9		
	5	~~10~~	~~10~~	10	
4	~~6~~	~~0~~	~~0~~	~~0~~	0
– 1	2	8	6	5	0
3	3	1	3	5	0

Answer: Weight of third bag is 331 kg 350 g.

Learning Updates

1. (a) 2 kg into g

1 kg = 1000 g

2 kg = (2 × 1000) g

= 2000 g

(b) 5 kg into g

1 kg = 1000 g

5 kg = (5 × 1000) g

= 5000 g

(c) 7 kg 165 g into g

1 kg = 1000 g

7 kg 165 g = (7 × 1000) g + 165 g

= 7000 g + 165 g

= 7165 g

(d) 9 kg 70 g into g

1 kg = 1000 g

9 kg 70 g = (9 × 1000) g + 70 g

= 9000 g + 70 g

= 9070 g

(e) 14 kg 970 g into g

1 kg = 1000 g

14 kg 970 g = (14 × 1000) g + 970 g

= 14000 g + 970 g

= 14970 g

(f) 33 kg 8 g into g

1 kg = 1000 g

33 kg 8 g = (33 × 1000) g + 8 g

= 33000 g + 8 g

= 33008 g

(g) 45 kg 220 g into g

1 kg = 1000 g

45 kg 220 g = (45 × 1000) g + 220 g

= 45000 g + 220 g

= 45220 g

(h) 68 kg 579 g into g

1 kg = 1000 g

68 kg 579 g = (68 × 1000) g + 579 g

= 68000 g + 579 g

= 68579 g

2. (a)

kg	g		
5	0	0	0
+	9	0	0
5	9	0	0

Answer: 5 kg 900 g

(b)

kg			g		
	(1)				
4	2	8	0	0	0
+ 5	0	7	0	0	0
9	3	5	0	0	0

Answer: 935 kg

(c)

kg			
(1)	(2)	(1)	
4	3	9	2
+	8	9	5
+		6	3
5	3	5	0

Answer: 5350 kg

(d)

kg			g		
	(1)	(1)		(1)	
		5	7	0	1
+	1	3	6	2	1
+ 2	3	1	0	6	9
2	5	0	3	9	1

Answer: 250 kg 391 g

3. (a)

g		
	17	
5	~~7~~	18
~~6~~	~~8~~	~~8~~
– 1	9	9
4	8	9

Answer: 489 g

(b)

g		
	9	
5	~~10~~	10
~~6~~	~~0~~	~~0~~
– 2	4	7
3	5	3

Answer: 353 g

(c)

kg		g		
5	12	5	13	
~~6~~	~~2~~	~~6~~	~~3~~	8
– 2	9	0	8	7
3	3	5	5	1

Answer: 33 kg 551 g

(d)

kg			g		
				15	
	3	13	8	~~5~~	13
8	~~4~~	~~3~~	~~9~~	~~6~~	~~3~~
– 4	1	4	1	9	8
4	2	9	7	6	5

Answer: 429 kg 765 g

4. Weight of first bag = 13 kg 372 g

Weight of second bag = 14 kg 610 g

Total weight of both the bags = Weight of first bag + Weight of second bag

= 13 kg 372 g + 14 kg 610 g

= 27 kg 982 g

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

Answer: Total weight carried by coolie is 27 kg 982 g.

5. Weight of each motorcycle = 90 kg

Weight of 1st motorcyclist = 54 kg

Weight of 2nd motorcyclist = 60 kg

Weight of 3rd motorcyclist = 58 kg

Weight of 1st motorcyclist with motorcycle

= Weight of motorcycle + Weight of 1st motorcyclist

= 90 kg + 54 kg

= 144 kg

kg		
	9	0
+	5	4
1	4	4

Weight of 2nd motorcyclist with motorcycle

= Weight of motorcycle + Weight of 2nd motorcyclist

= 90 kg + 60 kg = 150 kg

kg		
	9	0
+	6	0
1	5	0

Weight of 3rd motorcyclist with motorcycle

= Weight of motorcycle + Weight of 3rd motorcyclist

= 90 kg + 58 kg = 148 kg

kg		
	9	0
+	5	8
1	4	8

Answer: Weight of all three motorcyclist with the weight of their motorcycle is 144 kg, 150 kg and 148 kg respectively.

6. Weight of machine = 77 kg 656 g

Weight of one part = 58 kg 735 g

Weight of another part = Weight of machine – Weight of one part

= 77 kg 656 – 58 kg 735 g

= 18 kg 921 g

kg		g		
	16			
6	~~6~~	16		
~~7~~	~~7~~	~~6~~	5	6
– 5	8	7	3	5
1	8	9	2	1

Answer: Weight of another part is 18 kg 921 g.

Multiple Choice Questions

1. (d) Kilogram

2.

kg		g		
(1)		(1)	(2)	
1	6	2	8	9
+ 2	4	0	5	7
+ 0	5	0	0	6
4	5	3	5	2

Answer: (c) 45 kg 352 g

3.

kg			g		
	9	9			
3	~~10~~	~~10~~	11	2	10
~~4~~	~~0~~	~~0~~	~~1~~	~~3~~	~~0~~
– 1	2	5	4	2	6
2	7	4	7	0	4

Answer: (b) 274 kg 704 g

4. 3 kg 278 g into g

1 kg = 1000 g

3 kg 278 g = (3 × 1000) g + 278 g

= 3000 g + 278 g

= 3278 g

Answer: (d) 3278 g

5. (a) g

11 Measurement of Capacity

Get Started

(a) 200 m*l* (b) 5 *l* (c) 1 *l* (d) 10 m*l*

Exercise 11.1

1. (a) Cold drink in a bottle = 300 **m*l***

(b) 2 pouches of milk = 2 ***l***

(c) Sanitizer in a bottle = 100 **m*l***

(d) Tea in a cup = 150 **m*l***

(e) Water in your water bottle = 400 **m*l***

2.

Exercise 11.2

1. (a) 3 *l* into m*l*

1 *l* = 1000 m*l*

3 *l* = (3 × 1000) m*l*

= 3000 m*l*

(b) 7 *l* into m*l*

1 *l* = 1000 m*l*

7 *l* = (7 × 1000) m*l*

= 7000 m*l*

(c) 4 *l* into m*l*

1 *l* = 1000 m*l*

4 *l* = (4 × 1000) m*l*

= 4000 m*l*

(d) 8 *l* into m*l*

1 *l* = 1000 m*l*

8 *l* = (8 × 1000) m*l*

= 8000 m*l*

2. (a) 2 *l* 145 m*l* into m*l*

1 *l* = 1000 m*l*

2 *l* 145 m*l* = (2 × 1000) m*l* + 145 m*l*

= 2000 m*l* + 145 m*l*

= 2145 m*l*

(b) 5 *l* 901 m*l* into m*l*

1 *l* = 1000 m*l*

5 *l* 901 m*l* = (5 × 1000) m*l* + 901 m*l*

= 5000 m*l* + 901 m*l*

= 5901 m*l*

(c) 7 *l* 56 m*l* into m*l*

1 *l* = 1000 m*l*

7 *l* 56 m*l* = (7 × 1000) m*l* + 56 m*l*

= 7000 m*l* + 56 m*l*

= 7056 m*l*

(d) 9 *l* 60 m*l* into m*l*

1 *l* = 1000 m*l*

9 *l* 60 m*l* = (9 × 1000) m*l* + 60 m*l*

= 9000 m*l* + 60 m*l*

= 9060 m*l*

Exercise 11.3

1. (a)

	l		m*l*		
	(1)				
	3	3	7	0	
+	2	2	4	6	
	5	6	1	6	

Answer: 56 *l* 16 m*l*

(b)

	l			m*l*		
	(1)				(1)	
	4	6	6	0	6	
+	2	8	3	5	8	
	7	4	9	6	4	

Answer: 74 *l* 964 m*l*

(c)

	l			m*l*		
		(1)			(1)	
		7	4	0	0	2
+	1	0	9	8	0	9
	1	8	3	8	1	1

Answer: 183 *l* 811 m*l*

(d)

	l			m*l*		
		(1)		(1)	(1)	
	4	6	5	3	7	9
+	7	0	7	0	4	5
1	1	7	2	4	2	4

Answer: 1172 *l* 424 m*l*

2. (a)

	l		m*l*		
	(1)			(1)	
	2	5	8	2	5
+	6	3	3	0	6
	8	9	1	3	1

Answer: 89 *l* 131 m*l*

(b)

	l		m*l*		
	(1)		(1)		
	8	3	7	5	9
+	2	0	3	6	0
1	0	4	1	1	9

Answer: 104 *l* 119 m*l*

(c)

	l			m*l*		
	(1)	(2)		(1)		
1	1	9		6	9	7
+	1	3		7	5	0
+				9	5	2
1	3	4		3	9	9

Answer: 134 *l* 399 m*l*

(d)

	l			m*l*		
	(1)			(1)	(1)	
3	0	2		0	5	5
+ 0	4	8		6	6	8
+ 0	0	9		2	7	0
3	5	9		9	9	3

Answer: 359 *l* 993 m*l*

3. Milk drunk by Priyanka = 480 m*l*

Milk drunk by Madhur = 380 m*l*

Total milk drunk by both of them = Milk drunk by Priyanka + Milk drunk by Madhur

= 480 m*l* + 380 m*l*

= 860 m*l*

	m*l*		
	(1)		
	4	8	0
+	3	8	0
	8	6	0

Answer: Total milk drunk by both of them is 860 m*l*.

Exercise 11.4

1. (a)

	l		m*l*		
	6	5	7	4	0
–	2	2	2	1	0
	4	3	5	3	0

Answer: 43 *l* 530 m*l*

(b)

l			m*l*		
	11				
4	~~1~~	11		4	10
~~5~~	~~2~~	~~1~~	5	~~5~~	~~0~~
–	7	8	1	4	6
4	4	3	4	0	4

Answer: 443 *l* 404 m*l*

(c)

l			m*l*		
	9	9			
5	~~10~~	~~10~~	10		
~~6~~	~~0~~	~~0~~	~~0~~	6	8
–	5	1	4	6	0
5	4	8	6	0	8

Answer: 548 *l* 608 m*l*

(d)

l			m*l*		
	15				
7	~~5~~	14	6	10	
~~8~~	~~6~~	~~4~~	~~7~~	~~0~~	4
–	6	9		4	0
7	9	5	6	6	4

Answer: 795 *l* 664 m*l*

2. (a)

l		m*l*	
9	6	9	6
– 9	5	6	1
0	1	3	5

Answer: 1 *l* 35 m*l*

(b)

l		m*l*		
			9	
8	15	0	~~10~~	10
~~9~~	~~5~~	~~1~~	~~0~~	~~0~~
– 7	6		9	9
1	9	0	0	1

Answer: 19 *l* 1 m*l*

(c)

l			m*l*		
	9	9	9	9	
1	~~10~~	~~10~~	~~10~~	~~10~~	10
~~2~~	~~0~~	~~0~~	~~0~~	~~0~~	~~0~~
– 1	0	3	9	9	5
0	9	6	0	0	5

Answer: 96 *l* 5 m*l*

(d)

l		m*l*		
	9			
4	~~10~~	10		
~~5~~	~~0~~	~~0~~	5	0
– 1	6	2	5	0
3	3	8	0	0

Answer: 33 *l* 800 m*l*

3. Total juice in the bottle = 750 m*l*

Juice left after drinking = 600 m*l*

Juice Sameer drank = Juice in the bottle – Juice left after drinking

= 750 m*l* – 600 m*l*

= 150 m*l*

m*l*		
7	5	0
– 6	0	0
1	5	0

Answer: Sameer drank 150 m*l* juice on that day.

Exercise 11.5

1. Capacity of 1st drum = 2 *l* 600 m*l*

Capacity of 2nd drum = 3 *l* 100 m*l*

Capacity of 3rd drum = 900 m*l*

Capacity of bigger = Sum of capacity of first drum + Capacity of second drum + Capacity of third drum

= 2 *l* 600 m*l* + 3 *l* 100 m*l* + 900 m*l*

= 6 *l* 600 m*l*

l	m*l*		
(1)			
2	6	0	0
+ 3	1	0	0
+ 0	9	0	0
6	6	0	0

Answer: The capacity of the bigger drum in which all the oil contained in the small drums is poured is 6 *l* 600 m*l*.

2. Quantity of tank before the starting of journey

= 35 *l*

Quantity of tank at the end of journey

= 18 *l* 350 m*l*

Quantity of diesel used in the journey = Quantity of tank before the starting of journey – Quantity of tank at the end of journey

= 35 *l* – 18 *l* 350 m*l*

= 16 *l* 650 m*l*

l		m*l*		
	14	9		
2	~~4~~	~~10~~	10	
~~3~~	~~5~~	~~0~~	~~0~~	0
– 1	8	3	5	0
1	6	6	5	0

Answer: 16 *l* 650 m*l* of diesel is used in the journey.

3. Petrol filled on Monday = 19 *l* 500 m*l*

Petrol filled on Tuesday = 16 *l* 250 m*l*

Petrol filled altogether in two days = Petrol filled on Monday + Petrol filled on Tuesday

= 19 *l* 500 m*l* + 35 *l* 250 m*l*

= 35 *l* 750 m*l*

l		m*l*		
(1)				
1	9	5	0	0
+ 1	6	2	5	0
3	5	7	5	0

Answer: 35 *l* 450 m*l* of petrol is filled in car altogether in 2 days.

4. Quantity of first bottle of Coke = 370 m*l*

Quantity of second bottle of Coke = 405 m*l*

370 m*l* < 405 m*l*

First bottle < Second bottle

Quantity more in second bottle than quantity in first bottle = Quantity of second bottle – Quantity of first bottle

= 405 m*l* – 370 m*l*

= 35 m*l*

m*l*		
3	10	
~~4~~	~~0~~	5
– 3	7	0
0	3	5

Answer: Bottle with 405 m*l* of capacity has more quantity than the bottle with 370 m*l* by 35 m*l*.

5. Quantity of mango syrup poured in the jug

= 1 *l* 150 m*l*

Quantity of water poured in the jug

= 1 *l* 405 m*l*

Quantity of mango drink = Quantity of mango syrup + Quantity of water

= 1 *l* 150 m*l* + 1 *l* 405 m*l*

= 2 *l* 555 m*l*

l	m*l*		
1	1	5	0
+ 1	4	0	5
2	5	5	5

Answer: Quantity of mango drink is 2 *l* 555 m*l*.

Learning Updates

1. (a) In short litre is written as ***l***.

(b) In short millilitre is written as **m*l***.

(c) 1 *l* = **1000** m*l* (d) 1000 m*l* = **1** *l*

2. (a) water in a tank ***l***.

(b) medicine in a syringe **m*l***.

(c) a glass of juice **m*l***.

(d) Dettol in a bottle **m*l***.

3. (a) 5 *l* into m*l*

1 *l* = 1000 m*l*

5 *l* = (5 × 1000) m*l*

= 5000 m*l*

(b) 7 *l* into m*l*

1 *l* = 1000 m*l*

7 *l* = (7 × 1000) m*l*

= 7000 m*l*

(c) 9 *l* 50 m*l* into m*l*

1 *l* = 1000 m*l*

9 *l* 50 m*l* = (9 × 1000) m*l* + 50 m*l*

= 9000 m*l* + 50 m*l*

= 9050 m*l*

(d) 4 *l* 875 m*l* into m*l*

1 *l* = 1000 m*l*

4 *l* 875 m*l* = (4 × 1000) m*l* + 875 m*l*

= 4000 m*l* + 875 m*l*

= 4875 m*l*

(e) 8 *l* 647 m*l* into m*l*

1 *l* = 1000 m*l*

8 *l* 647 m*l* = (8 × 1000) m*l* + 647 m*l*

= 8000 m*l* + 647 m*l*

= 8647 m*l*

(f) 5 *l* 28 m*l* into m*l*

1 *l* = 1000 m*l*

5 *l* 28 m*l* = (5 × 1000) m*l* + 28 m*l*

= 5000 m*l* + 28 m*l*

= 5028 m*l*

4. (a)

l	m*l*
(1)	(1)
2	6 0 2
+ 2	4 3 9
5	0 4 1

Answer: 5 *l* 41 m*l*

(b)

l	m*l*
(1) (1)	(1)
1 7	8 7 2
+ 8	3 7 1
2 6	2 4 3

Answer: 26 *l* 243 m*l*

(c)

l	m*l*
(1) (1)	
5 6	6 7 1
+ 7 8	6 0 0
1 3 5	2 7 1

Answer: 135 *l* 271 m*l*

(d)

l	m*l*
(1) (1)	
6 9	2 0 8
+ 2 4	8 9 1
9 4	0 9 9

Answer: 94 *l* 99 m*l*

5. (a)

l	m*l*
	9
6	~~10~~ 11
~~7~~	~~0~~ ~~1~~ 5
– 4	2 3 4
2	7 8 1

Answer: 2 *l* 781 m*l*

(b)

l	m*l*
9	14
8 ~~10~~	~~4~~ 15
~~9~~ ~~0~~	~~5~~ ~~5~~ 0
– 6 2	9 7 0
2 7	5 8 0

Answer: 27 *l* 580 m*l*

(c)

l	m*l*
3	10
6 ~~4~~	~~0~~ 0 0
– 3 3	9 0 0
3 0	1 0 0

Answer: 30 *l* 100 m*l*

(d)

l	m*l*
	0 10
7 6 8	~~1~~ ~~0~~ 7
– 4 2 8	0 3 5
3 4 0	0 7 2

Answer: 340 *l* 72 m*l*

6. Quantity of paint in the bucket

= 50 *l* 750 m*l*

Quantity of paint used by the painter

= 42 *l* 775 m*l*

Paint left with the painter = Paint in bucket – Paint used by the painter

= 50 *l* 75 m*l* – 42 *l* 775 m*l*

= 7 *l* 975 m*l*

l		m*l*		
	9	16	14	
4	~~10~~	~~6~~	~~4~~	10
~~5~~	~~0~~	~~7~~	~~5~~	~~0~~
– 4	2	7	7	5
0	7	9	7	5

Answer: 7 *l* 975 m*l* of paint is left with the painter.

7. Quantity of milk given to first family

= 8 *l* 820 m*l*

Quantity of milk given to second family

= 9 *l* 450 m*l*

Total milk given = Milk given to first family + Milk given to second family

= 8 *l* 820 m*l* + 9 *l* 450 m*l*

= 18 *l* 270 m*l*

l		m*l*		
	(1)			
8		8	2	0
+ 9		4	5	0
1	8	2	7	0

Answer: Ashwani gave 18 *l* 270 m*l* of milk to poor families on the birthday of his son.

Multiple Choice Questions

1. 4 *l* 76 m*l* into m*l*

1 *l* = 1000 m*l*

4 *l* 76 m*l* = (4 × 1000) m*l* + 76 m*l*

= 4000 m*l* + 76 m*l*

= 4076 m*l*

Answer: (b) 4076 m*l*

2.

l		m*l*		
	(1)	(1)	(1)	
2	0	7	9	8
+ 4	5	3	6	9
6	6	1	6	7

Answer: (d) 66 *l* 167 m*l*

3. (a) millilitres

4.

l		m*l*		
0		10		
~~1~~		~~0~~	0	0
–		9	0	0
0		1	0	0

Answer: (a) 100 m*l*

Skills Check

1. 1 *l* = 1000 m*l*

$\frac{1}{2}$ of 1 *l* = $\frac{1}{2}$ of 1000 m*l* [or 1000 ÷ 2]

= 500 m*l*

Answer: $\frac{1}{2}$ of 1 *l* in m*l* is 500 m*l*.

2. 4 *l* = $\frac{1}{4}$ of full capacity

4 *l* = $\frac{1}{4}$ of full or full capacity ÷ 4

Full capacity = 4 × 4 *l*

Full capacity = 16 *l*

Quantity of more water that can be filled in the bottle = Full capacity – $\frac{1}{4}$ of full capacity

= 16 – $\frac{1}{4}$ of 16 [or 16 ÷ 4]

= 16 – 4

= 12

Answer: 12 *l* of water can be filled more in the bottle.

or

4 *l* is $\frac{1}{4}$ of full

4 *l* = $\frac{1}{4}$ of full [or full ÷ 4]

According to question, Full = $\frac{4}{4}$

$\frac{4}{4} - \frac{1}{4} = \frac{3}{4}$

Answer: $\frac{3}{4}$ water can be filled more in the bottle.

12 Time

Exercise 12.1

1. (a) 2:30 half-past two (b) 9:00 or 9 o'clock
(c) 5:15 quarter-past 5
(d) 8:30 half-past eight

2. (a) 
5:45

(b) 
7:30

(c) 
3:00

(d) 
6:30

(e) 
8:00

(f) 
9:00

3. (a) Maths period on Monday starts at **9 o'clock**.
(b) The fourth period on Monday starts at **10:30** or **half-past ten**.
(c) The break starts at **10:15** or **quarter-past ten**.
(d) English period on Tuesday starts at **11:15** or **quarter-past eleven**.
(e) Maths period on Tuesday lasts at **10:15** or **quarter-past ten**.
(f) SST period on Tuesday starts at **10:30** or **half-past ten**.

Exercise 12.2

1. (a) 7:35 35 minutes past 7
(b) 4:45 45 minutes past 4
(c) 11:25 25 minutes past 11
(d) 9:15 15 minutes past 9

2. (a) 
10 minutes past 4

(b) 
20 minutes past 2

(c) 
45 minutes past 12

(d) 
40 minutes past 5

3. (a) 
45 minutes past 10

(b) 
5 minutes past 3

(c) 
50 minutes past 9

(d) 
Quarter past 6

4. (a) 13 minutes past 1 = **1:13**
(b) 42 minutes past 3 = **3:42**
(c) 45 minutes past 7 = **7:45**
(d) 5 minutes past 6 = **6:05**

Exercise 12.3

1. (a) 4:20 in the morning **4:20 a.m.**
(b) 6:15 in the evening **6:15 p.m.**
(c) 7:55 in the morning **7:55 a.m.**
(d) 10:40 before noon **10:40 a.m.**
(e) 11:10 in the night **11:10 p.m.**

(f) 6:00 in the evening **6:00 p.m.**

(g) 2:35 in the night **2:35 a.m.**

(h) 8:20 in the night **8:20 p.m.**

2. (a) A.M. (b) P.M.

3. (a) 7 months have exactly 31 days.

(b) 4 months have 30 days.

(c) July and August.

4. (a) 52 Fridays in the year

(b) 2028 = 2022 + 6 years = 2028

(c) 2018

(d) No

5. Example: Ramesh Birthday

1. 7/10/2012
2. 7th October 2012
3. October 07, 2012

Exercise 12.4

1. (a) 60 (b) 1 week (c) 24 (d) 366

2. (a) 7 months in days

1 month = 30 days

7 months = (7 × 30) days

= 210 days

(b) 10 months in days

1 month = 30 days

10 months = (10 × 30) days

= 300 days

(c) 15 months in days

1 month = 30 days

15 months = (15 × 30) days

= 450 days

(d) 5 weeks into days

1 week = 7 days

5 weeks = (5 × 7) days

= 35 days

(e) 12 weeks into days

1 week = 7 days

12 weeks = (12 × 7) days

= 84 days

(f) 24 weeks into days

1 week = 7 days

24 weeks = (24 × 7) days

= 168 days

(g) 35 months into days

1 month = 30 days

35 months = (35 × 30) days

= 1050 days

(h) 40 months into days

1 month = 30 days

40 months = (40 × 30) days

= 1200 days

3. (a) 4 days into hours

1 day = 24 hours

4 days = (4 × 24) hours

= 96 hours

(b) 6 days into hours

1 day = 24 hours

6 days = (6 × 24) hours

= 144 hours

(c) 10 days into hours

1 day = 24 hours

10 days = (10 × 24) hours

= 240 hours

(d) 13 days into hours

1 day = 24 hours

13 days = (13 × 24) hours

= 312 hours

(e) 20 days into hours

1 day = 24 hours

20 days = (20 × 24) hours

= 480 hours

(f) 25 days into hours

1 day = 24 hours

25 days = (25 × 24) hours

= 600 hours

(g) 33 days into hours

1 day = 24 hours

33 days = (33 × 24) hours

= 792 hours

(h) 46 days into hours

1 day = 24 hours

46 days = (46 × 24) hours

= 1104 hours

4. (a) 3 hours into minutes

1 hour = 60 minutes

3 hours = (3 × 60) minutes

= 180 minutes

(b) 7 hours into minutes

1 hour = 60 minutes

7 hours = (7 × 60) minutes

= 420 minutes

(c) 1 day into minutes

1 day = 24 hours

1 hour = 60 minutes

1 day = (24 × 60) minutes

= 1440 minutes

(d) 4 hours and 25 minutes into minutes

1 hour = 60 minutes

4 hours and 25 minutes = (4 × 60) minutes + 25 minutes

= 240 minutes + 25 minutes

= 265 minutes

(e) 9 hours and 42 minutes into minutes

1 hour = 60 minutes

9 hours and 42 minutes = (9 × 60) minutes + 42 minutes

= 540 minutes + 42 minutes

= 582 minutes

5. (a) 5 minutes into seconds

1 minute = 60 seconds

5 minutes = (5 × 60) seconds

= 300 seconds

(b) 23 minutes into seconds

1 minute = 60 seconds

23 minutes = (23 × 60) seconds

= 1380 seconds

(c) 3 minutes 40 seconds into seconds

1 minute = 60 seconds

3 minutes 40 seconds = (3 × 60) seconds + 40 seconds

= 180 minutes + 40 seconds

= 220 seconds

Learning Updates

1. (a) (iii) (b) (v) (c) (ii) (d) (i) (e) (iv)

2. (a) I wake up at 6:30 **am**.

(b) 6:30am + 10minutes

hours	minutes	
6	3	0
+	1	0
6	4	0a.m

= 6:40am

(c) 6:40a.m + 15minutes

hours	minutes	
6	4	0
+	1	5
6	5	5a.m

= 6:55am

(d) 6:55am + 15minutes

hours	minutes	
6	5	5
+	1	5
6	7	0a.m

or 7:10

= 7:10a.m

(e) 7:10am + 15minutes

hours	minutes	
7	1	0
+	1	5
7	2	5a.m

= 7:25am

(f) 7:25am + 10minutes

hours	minutes	
7	2	5
+	1	0
7	3	5a.m

= 07:35am

3. (a) November 26, 2022 26th November, 2022

(b) November 15, 2022 15/11/2022

4. First three months of a leap year are:

January, February and March

Days in January in a leap year = 31

Days in February in a leap year = 29

Days in March in a leap year = 31

Days in first three months of a leap year = Sum of days in January + Sum of days in February + Sum of days in March

= 31 + 29 + 31

= 91 days

Answer: There are 91 days in the first three months of a leap year.

5. Ankita's visit to Grandpa's house: 15th June

Ankita's departure from Grandpa's house: 14th August

She stayed therefore = Difference between 14th August and 15th June

= 61 days

Answer: Ankita stayed in her Grandpa's house for 61 days or 2 months.

6. (a) 4 hours into minutes

1 hour = 60 minutes

4 hours = (4 × 60) minutes

= 240 minutes

(b) 7 hours 32 minutes into minutes

1 hour = 60 minutes

7 hours 32 minutes = (7 × 60) minutes + 32 minutes

= 420 minutes + 32 minutes

= 452 minutes

(c) 9 hours 30 minutes into minutes

1 hour = 60 minutes

9 hours 30 minutes = (9 × 60) minutes + 30 minutes

= 540 minutes + 30 minutes

= 570 minutes

7. (a) 300 minutes into hours

1 hour = 60 minutes

$300 \text{ minutes} = \frac{300}{60} \text{ hours}$

= 5 hours

(b) 13 days into hours

1 day = 24 hours

13 days = (13 × 24) hours

= 312 hours

(c) 480 minutes into hours

1 hour = 60 minutes

$480 \text{ minutes} = \frac{480}{60} \text{ hours}$

= 8 hours

Multiple Choice Questions

1. (d) Quarter past 7 **2.** (c) 4:05

3. (c) 

4. (b) 25 **5.** (d) 3:30 → Half past 3

6. (c) 24

13 Money

Exercise 13.1

1. (a) Fifteen rupees and forty paise.

(b) Twenty five rupees and eighty eight paise.

(c) Forty one rupees and five paise.

(d) Sixty three rupees and Seventeen paise.

(e) Hundred rupees and Seventy five paise.

2. (a) ₹ 7.70 (b) ₹ 15.95

(c) ₹ 32.05 (d) ₹ 117.75

(e) ₹ 200.43 (f) ₹ 209.25

3. (a) ₹ 9 into paise

1 ₹ $= 100$ paise

9 ₹ $= (9 \times 100)$ paise

$= 900$ paise

(b) ₹ 1.35 into paise

1 ₹ $= 100$ paise

1.35 ₹ $= (1 \times 100)$ paise $+ 35$ paise

$= 100$ paise $+ 35$ paise

$= 135$ paise

(c) ₹ 0.78 into paise

1 ₹ $= 100$ paise

₹ $0.78 = (0.78 \times 100)$ paise

$= 78$ paise

(d) ₹ 47.30 into paise

1 ₹ $= 100$ paise

₹ $47.30 = (47 \times 100)$ paise $+ 30$ paise

$= 4730$ paise

(e) ₹ 99.50 into paise

1 ₹ $= 100$ paise

₹ $99.50 = (99 \times 100)$ paise $+ 50$ paise

$= 9950$ paise

(f) ₹ 387.18 into paise

1 ₹ $= 100$ paise

₹ $387.18 = (387 \times 100)$ paise $+ 18$ paise

$= 38718$ paise

4. (a) 400 paise into rupees

1 ₹ $= 100$ paise

$400 \text{ p} = \frac{400}{100}$ rupees

$=$ ₹ 4

(b) 3 paise into rupees

1 ₹ $= 100$ paise

$3 \text{ p} = \frac{3}{100}$ rupees

$=$ ₹ 0.03

(c) 2801 paise into rupees

1 ₹ $= 100$ paise

$2801 \text{ p} = \frac{2801}{100}$ rupees

$=$ ₹ 28.01

(d) 980 paise into rupees

1 ₹ $= 100$ paise

$980 \text{ p} = \frac{980}{100}$ rupees

$=$ ₹ 9.80

(e) 7395 paise into rupees

1 ₹ $= 100$ paise

$7395 \text{ p} = \frac{7395}{100}$ rupees

$=$ ₹ 73.95

(f) 6060 paise into rupees

1 ₹ $= 100$ paise

$6060 \text{ p} = \frac{6060}{100}$ rupees

$=$ ₹ 60.60

5. (a) 525 p into ₹ and p

1 ₹ $= 100$ p

$525 \text{ p} = \frac{525}{100}$ rupees

$=$ ₹ 5.25 or 5 rupees 25 paise

(b) 707 p into ₹ and p

$1 ₹ = 100 \text{ p}$

$707 \text{ p} = \frac{707}{100}$ rupees

$= ₹ 7.07$ or 7 rupees 7 paise

(c) 805 p into ₹ and p

$1 ₹ = 100 \text{ p}$

$805 \text{ p} = \frac{805}{100}$ rupees

$= ₹ 8.05$ or 8 rupees 5 paise

(d) 3259 p into ₹ and p

$1 ₹ = 100 \text{ p}$

$3259 \text{ p} = \frac{3259}{100}$ rupees

$= ₹ 32.59$ or 32 rupees 59 paise

Exercise 13.2

1. (a)

	₹				p	
					(1)	
	7	6	2	.	3	9
+	6	1	0	.	2	8
1	3	7	2	.	6	7

Answer: 1372 rupees and 67 paise.

(b)

	₹				p	
	(1)	(1)			(1)	
	4	3	7	.	7	4
+	1	2	4	.	4	6
	5	6	2	.	2	0

Answer: 562 rupees and 20 paise.

(c)

	₹				p	
					(1)	
	9	0	0	.	3	6
+	8	6	4	.	0	5
1	7	6	4	.	4	1

Answer: 1764 rupees and 41 paise.

(d)

	₹				p	
					(1)	
	1	3	2	.	0	6
+	2	4	2	.	8	7
	3	7	4	.	9	3

Answer: 374 rupees and 93 paise.

2. (a)

	₹				p	
					0	12
	4	3	.		~~1~~	~~2~~
–	1	0	.	0	7	
	3	3	.	0	5	

Answer: 33 rupees and 5 paise.

(b)

	₹				p	
	7	9			7	12
	~~8~~	~~0~~	.		~~8~~	~~2~~
–	7	1	.	0	5	
	0	8	.	7	7	

= 1₹ = 100p

Answer: 8 rupees and 77 paise.

(c)

	₹				p	
			4		10	
	2	7	~~5~~	.	~~0~~	0
–		4	3	.	2	0
	2	3	1	.	8	0

Answer: 231 rupees and 80 paise.

(d)

	₹				p	
			7		17	
	4	7	~~8~~	.	~~7~~	8
–	1	6	3	.	9	3
	3	1	4	.	8	5

Answer: 314 rupees and 85 paise.

3. (a)

	₹				p	
(1)					(1)	
	1	6	0	.	4	2
+	1	6	2	.	4	8
	3	2	2	.	9	0

Answer: 322 rupees and 90 paise.

(b)

	₹				p	
					(1)	
	3	0	6	.	7	8
+	7	4	2	.	0	6
1	0	4	8	.	8	4

Answer: 1048 rupees and 84 paise.

(c)

	₹				p	
		(1)	(1)		(1)	
	6	0	5	.	2	9
+	1	7	4	.	9	3
	7	8	0	.	2	2

Answer: 780 rupees and 22 paise.

(d)

	₹				p	
	(1)	(1)	(1)			
	8	4	1	.	7	0
+	8	8	8	.	8	1
1	7	3	0	.	5	1

Answer: 1730 rupees and 51 paise.

4. (a)

	₹				p	
		10	9		10	
	1	~~0~~	~~10~~		~~0~~	10
	~~2~~	~~1~~	~~0~~	.	~~1~~	~~0~~
–		7	6	.	9	8
	1	3	3	.	1	2

Answer: 133 rupees and 12 paise.

(b)

	₹				p	
					9	
			3		~~10~~	15
	3	2	~~4~~	.	~~0~~	~~5~~
–	2	1	3	.	4	7
	1	1	0	.	5	8

Answer: 110 rupees and 58 paise.

(c)

	₹				p	
	3	10				
	~~4~~	~~0~~	9	.	6	3
–		1	5	.	6	0
	3	9	4	.	0	3

Answer: 394 rupees and 3 paise.

(d)

	₹				p	
			4		10	
	8	9	~~5~~	.	~~0~~	1
–	7	8	4	.	2	0
	1	1	0	.	8	1

Answer: 110 rupees and 81 paise.

5. (a) Money spent by Anurag on purchasing mobile = ₹ 3790.75

Money spent by Anurag purchasing cover = ₹ 379.25

Total money spent = Money spent on purchasing mobile + Money spent on purchasing cover

= ₹ 3790.75 + ₹ 379.25

= ₹ 4170

	₹					p	
	(1)	(1)	(1)	(1)		(1)	
	3	7	9	0	.	7	5
+		3	7	9	.	2	5
	4	1	7	0	.	0	0

Answer: Total money spent by Anurag is ₹ 4170.

(b) Total money in Mr. Bhandari digital wallet = ₹ 700.20

Money spent = ₹ 432.45

Balance in his wallet = Total money – Money spent

= ₹ 700.20 – ₹ 432.45

= ₹ 267.75

	₹				p	
		9	9		11	
	6	~~10~~	~~10~~		~~1~~	10
	~~7~~	~~0~~	~~0~~	.	~~2~~	~~0~~
–	4	3	2	.	4	5
	2	6	7	.	7	5

Answer: Mr. Bhandari's wallet balance is ₹ 267.75.

(c) Money spent on buying milk = ₹ 12.50

Money spent on buying biscuits = ₹ 17.50

Money spent on buying butter = ₹ 10.75

Total money spent = Money spent on buying milk + Money spent on buying biscuits + Money spent on buying butter

= ₹ 12.50 + ₹ 17.50 + ₹ 10.75

= ₹ 40.75

	₹			p	
	(1)	(1)			
	1	2	.	5	0
+	1	7	.	5	0
+	1	0	.	7	5
	4	0	.	7	5

Answer: Total money spent is ₹ 40.75.

(d) Money required to buy an item = ₹ 300

Money in his Paytm account = ₹ 225.85

More money required to buy the item = Total money – Money in Paytm account

= ₹ 300 – ₹ 225.85

= ₹ 77.15

		₹			p	
		9	9		9	
	2	~~10~~	~~10~~		~~10~~	10
	~~3~~	~~0~~	~~0~~	.	~~0~~	~~0~~
–	2	2	5	.	8	5
	0	7	4	.	1	5

Answer: More money required is ₹ 74.15.

Exercise 13.3

1. (a)

₹			p	
(1)	(3)		(3)	
1	3	.	7	6
			×	5
6	8	.	8	0

Answer: ₹ 68.80

(b)

	₹			p	
		(1)			
	4	0	.	3	0
				×	5
2	0	1	.	5	0

Answer: ₹ 201.50

(c)

	₹			p	
	(1)	(2)		(1)	
1	1	4	.	7	5
				×	3
3	4	4	.	2	5

Answer: ₹ 344.25

(d)

	₹			p	
(1)				(1)	
3	9	0	.	3	6
				×	2
7	8	0	.	7	2

Answer: ₹ 780.72

2. (a) ₹ 128 ÷ 4

```
     32
 4 ) 128
   – 12↓
      08
     – 8
       0
```

Answer: ₹ 128 ÷ 4 = **32**

(b) ₹ 105.35 ÷ 5

```
     21.07
 5 ) 105.35
   – 10↓
      05
     – 5
      035
     – 35
        0
```

Answer: ₹ 105.35 ÷ 5 = **21.07**

(c) ₹ 475.12 ÷ 8

```
      59.39
  8 | 475.12
    - 40
      ----
       75
     - 72
      ----
       31
     - 24
      ----
        72
      - 72
      ----
         0
```

Answer: ₹ 475.12 ÷ 8 = **59.39**

3. (a) Cost of 1 calculator = ₹ 398.59

Cost of 3 calculators = ₹ 398.59 × 3

= ₹ 1195.77

	₹				p	
	(2)	(2)	(1)		(2)	
	3	9	8	.	5	9
					×	3
1	1	9	5	.	7	7

Answer: Amar has to pay ₹ 1195.77 for 3 calculators.

(b) Cost of 3 pizzas = ₹ 540

Cost of 1 pizza = ₹ 540 ÷ 3

= ₹ 180

```
      180
  3 | 540
    - 3
      ---
       24
     - 24
      ---
        00
```

Answer: 1 pizza cost is ₹ 180.

(c) Number of bags sold = 6

Cost of 1 school bag = ₹ 475.90

Total sale of the shopkeeper = Number of bags sold × Cost of 1 bag

= 6 × ₹ 475.90

= ₹ 2855.40

	₹				p	
	(4)	(3)	(5)			
	4	7	5	.	9	0
					×	6
2	8	5	5	.	4	0

Answer: Total sale of the shopkeeper is ₹ 2855.40

(d) Cost of 1 balloon = 95 paise

Cost of 12 balloons = 95 paise × 12

= 1140 paise

		p	
	(1)		
	9	5	
×	1	2	
(1)			
1	9	0	
+ 9	5	0	
1 1	4	0	

Cost of 12 balloons in ₹

= 1 ₹ = 100 paise

$1p = ₹\frac{1}{100}$

1140 paise = $\frac{1140}{100}$ rupees

= ₹ 11.40

Answer: Cost of 12 balloons is ₹ 11.40.

(e) Total amount = ₹ 200.75

Number of children = 5

Amount each children will get:

Total amount = Number of children

= 200.75 ÷ 5

= ₹ 40.15

```
      40.15
  5 | 200.75
    - 20
      ----
       07
     - 5
      ----
       25
     - 25
      ----
         0
```

Answer: Each children will get ₹ 40.15.

(f) Cost of 5 *l* sanitizer = ₹ 500.25

Cost of 1 *l* sanitizer = 500.25 ÷ 5

= ₹ 100.05

$$\begin{array}{r|l} & 100.05 \\ 5 & 500.25 \\ -\,5 & \\ \hline & 0025 \\ & -\,25 \\ \hline & 0 \\ \hline \end{array}$$

Answer: Cost of 1 *l* sanitizer is ₹ 100.05.

Learning Updates

1. (a) 1 ₹ coin = 1 coin of 100 paise

$$1 \text{ ₹ coin} = 4 \text{ coins of } \frac{100}{4} \text{ paise}$$

$$1 \text{ ₹ coin} = 4 \text{ coins of } 25 \text{ paise}$$

Answer: One rupee coin = four coins of **25** paise together.

(b) 2 coins of 50 p together = 2 × 50 p

= 100 p

1 ₹ = 100 p

Answer: Two coins of fifty paise together = **1** rupee coin.

(c) 5 coins of ₹ 1 = ₹ 1 × 5

= ₹ 5

Answer: Five coins of one rupee coins together = **5** rupee coins.

2. (a) Twenty rupees and one paise.

(b) Twenty five rupees and thirty paise.

(c) Ninety five paise.

(d) Hundred rupees and five paise.

3. (a) 459 p into ₹

1 rupee = 100 paise

$$459 \text{ p} = ₹ \frac{459}{100}$$

= ₹ 4.59

Answer: 459 p = ₹ **4.59**

(b) 3095 p into ₹

1 rupee = 100 paise

$$3095 \text{ p} = ₹ \frac{3095}{100}$$

= ₹ 30.95

Answer: 3095 p = ₹ **30.95**

(c) 4236 p into ₹

1 rupee = 100 paise

$$4236 \text{ p} = ₹ \frac{4236}{100}$$

= ₹ 42.36

Answer: 4236 p = ₹ **42.36**

(d) 7003 p into ₹

1 rupee = 100 paise

$$7003 \text{ p} = ₹ \frac{7003}{100}$$

= ₹ 70.03

Answer: 7003 p = ₹ **70.03**

4. (a)

	₹				p	
	(1)	(1)			(1)	
	9	0	0	.	4	7
+	7	6	9	.	7	5
1	6	7	0	.	2	2

Answer: ₹ 1670.22

(b)

	₹				p	
	(1)				(1)	
	4	6	0	.	0	5
+	4	9	0	.	3	5
	9	5	0	.	4	0

Answer: ₹ 950.40

(c)

	₹				p	
					5	13
	5	9	8	.	~~6~~	~~3~~
−	4	1	8	.	5	9
	1	8	0	.	0	4

Answer: ₹ 180.04

(d)

	₹				p	
			7		17	
	1	8	~~8~~	.	~~7~~	0
−	1	0	6	.	8	0
	0	8	1	.	9	0

Answer: ₹ 81.90

(e)

	₹				p	
	(2)	(4)	(4)		(3)	
	2	3	6	.	7	5
					×	6
1	4	2	0	.	5	0

Answer: ₹ 1420.50

(f)

	₹			p	
	(2)	(1)		(1)	
	6	8	.	6	5
				×	3
2	0	5	.	9	5

Answer: ₹ 205.95

(g)

```
      8.02
  7 ) 56.14
    - 56↓↓
       014
     - 14
         0
```

Answer: ₹ 8.02

(h)

```
      10.01
  9 ) 90.09
    - 9↓ ↓↓
       009
      - 9
         0
```

Answer: ₹ 10.01

(i)

```
      114
  8 ) 912
    - 8↓
      11
    - 8↓
      32
    - 32
       0
```

Answer: ₹ 114

5. (a) Cost of 5 books = ₹ 540.60

Cost of 1 book = ₹ 540.60 ÷ 5

= ₹ 108.12

```
      108.12
  5 ) 540.60
    - 5↓↓
      040
    - 40↓
       06
     - 5↓
       10
     - 10
        0
```

Answer: Cost of 1 book is ₹ 108.12.

(b) Money earned by Mr. Tanveer = ₹ 6879

Spent by Mr. Tanveer = ₹ 3278

Savings of Mr. Tanveer = Money earned – Money spent

= ₹ 6879 – ₹ 3278

= ₹ 3601

		₹				p	
	6	8	7	9	.	0	0
–	3	2	7	8	.	0	0
	3	6	0	1	.	0	0

Answer: Mr. Tanveer savings are ₹ 3601.

(c) Number of pockets = 3

Money in each pocket = ₹ 401.55

Total money = Number of pocket × Money in each pocket

= 3 × ₹ 401.55

= ₹ 1204.65

	₹				p	
			(1)		(1)	
	4	0	1	.	5	5
					×	3
1	2	0	4	.	6	5

Answer: ₹ 1204.65 is the total money in all pockets.

(d) Cost of sparklers Mayank bought for his son = ₹ 43.80

Cost of sparklers Mayank bought for his daughter = ₹ 39.60

Total money spent by Mayank on buying sparklers = Cost of sparklers bought for his son + Cost of sparklers bought for his daughter

= ₹ 43.80 + ₹ 39.60

= ₹ 83.40

	₹			p	
	(1)	(1)			
	4	3	.	8	0
+	3	9	.	6	0
	8	3	.	4	0

Answer: Total money spent by Mayank on buying sparklers is ₹ 83.40.

Multiple Choice Questions

1. 6 rupees 45 paise = ₹ **6.45**

1 ₹ = 100 paise

₹ 6.45 = 6.45 × 100 paise

(a) 645 paise

Answer: (c) both (a) and (b).

2. 1 ₹ = 100

$1\text{ p} = ₹\ \frac{1}{100}$

$5\text{ p} = ₹\ \frac{5}{100}$

= ₹ 0.05

Answer: (c) ₹ 0.05

3. 1 ₹ = 100 p

₹ 5 = 5 × 100 p

= 500 p

Number of 50 paise coins will make a 5 ₹ coins or 500 p coins

$= \frac{₹\ 5}{50\text{ p}}$ or $\frac{500\text{ p}}{50\text{ p}}$

= 10

Answer: (a) 10

4. Total amount Samira spent = ₹ 67.25

Total amount Naira spent = Amount spent by Samira – ₹ 20.75

= ₹ 67.25 – ₹ 20.75

= ₹ 46.50

	₹			p	
		6		12	
	6	~~7~~	.	~~2~~	5
–	2	0	.	7	5
	4	6	.	5	0

Answer: (c) 46.50

5. Number of chart papers = 4

Cost of each chart paper = ₹ 10

Total cost of chart papers = Cost of each chart paper × Number of chart papers

= ₹ 10 × 4

= ₹ 40

1	0	.	0	0	
			×	4	
4	0	.	0	0	

Number of posters = 5

Cost of each poster = ₹ 15

Total cost of posters = Cost of each poster × Number of posters

(2)					
1	5	.	0	0	
			×	5	
7	5	.	0	0	

= ₹ 15 × 5

= ₹ 75

Total money spent by Manjeet = Total cost of chart papers + Total cost of posters

= ₹ 40 + ₹ 75

= ₹ 115

		₹			p	
	4	0	.	0	0
+	7	5	.	0	0
1	1	5	.	0	0

Answer: (d) None of these.

Skills Check

Number of 5-rupee coins = 36

Total money = 36 × 5

= ₹ 180

Money spent on buying bat = ₹ 150

Money left = Total money – Money spent

= ₹ 180 – ₹ 150

= ₹ 30

	₹
	(3)
	3 6
	× 5
	1 8 0

	₹
	1 8 0
–	1 5 0
	0 3 0

Answer: Total money left after buying bat is ₹ 30.

14 Data Handling

Get Started

Animal	Number
Duck	5
Goat	3
Dog	2
Horse	2

Exercise 14.1

1.

Animals	Shows the different kinds animals
Lion	☺☺☺☺☺
Dog	☺☺☺☺☺☺☺☺☺
Rabit	☺☺☺☺☺☺
Parrot	☺☺☺☺
Rat	☺☺☺
Key: ☺ = 1 animal	

2. (a) GK

(b) 29 students

(c) 7

(d) cartoons

3. (a) 6 students

(b) Pepsi

(c) Cocacola

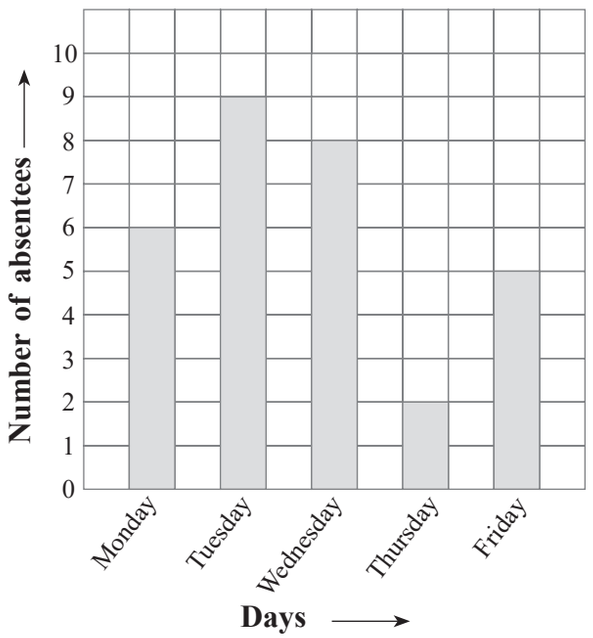
(d) 4

(e) 23

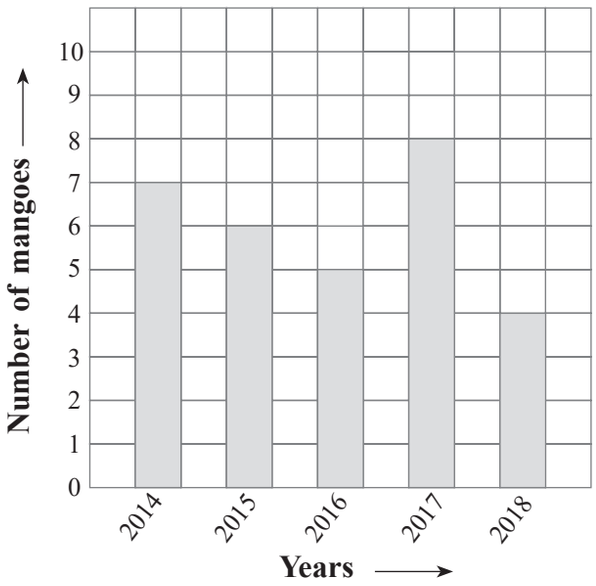
(f) 1 student

Exercise 14.2

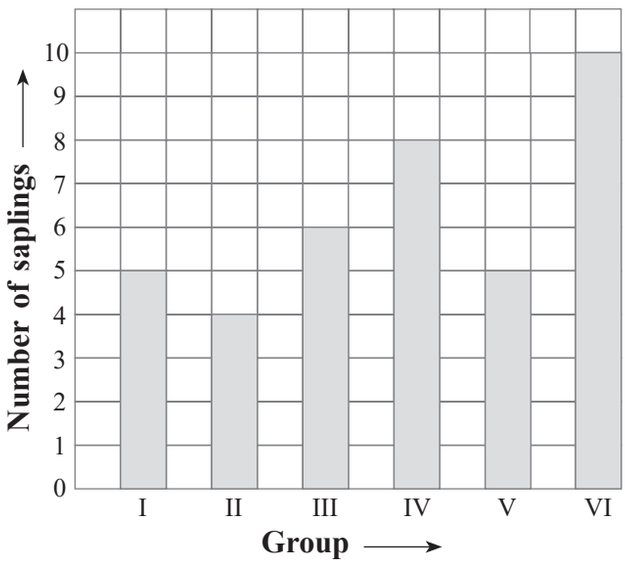
1.



2.



3.



4. (a) 15 (b) Bus (c) 30 (d) 40 – 20 = 20 (e) 20 + 35 = 55

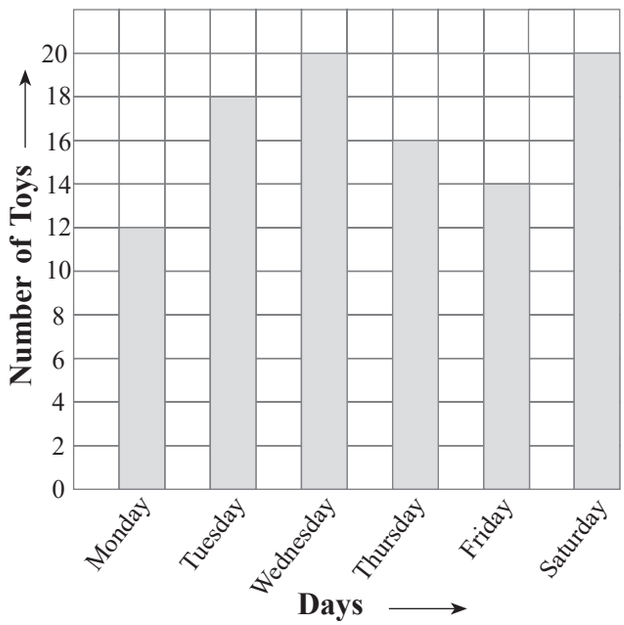
5. (a) 36 (b) week 2 (c) 48 books
(d) 6 books

Learning Updates

1. (a) 12 (b) 6 (c) Cartoon Network
(d) Zee TV and Music

2. (a) 2 students
(b) Favorite snacks of students of class 3
(c) Spring Rolls (d) Samosa (e) 50

3.



4.