

# Answers

## Theme 1: What Makes Our Land Ch-1: Large Numbers

### Main Coursebook

#### I am ready

- 26,677 – Twenty-six thousand six hundred seventy-seven ✓  
 8,37,234 < 8,73,214 ✓ The smallest 6-digit even number is 12347 ✗  
 The face value of 6 in 9,06,292 is 6. ✓  
 The Roman numeral of 335 is CCXIV ✗  
 6,765 rounded off to nearest hundreds is 6,800. ✓  
 317,456 – Three hundred seventeen thousand four hundred fifty-six. ✓  
 82,643 rounded off to nearest tens is 82,650 ✗

**Icebreaker:** 878976; Answer may vary.

- 99,87,509 – Ninety-nine lakh eighty-seven thousand five hundred nine
  - 3,41,82,117 – Three crore forty-one lakh eighty-two thousand one hundred seventeen
  - 8,79,61,534 – Eight crore seventy-nine lakh sixty-one thousand five hundred thirty-four
  - 8,95,33,482 – Eight crore ninety-five lakh thirty-three thousand four hundred eighty-two
- 52,00,300
  - 1,87,00,009
  - 7,11,002
  - 70,01,005

#### In-text Question

- 99,99,999
  - 1,00,00,000
- $30,00,000 + 4,00,000 + 20,000 + 6,000 + 100 + 0 + 6$
  - $80,00,00,000 + 1,00,00,000 + 0 + 2,00,000 + 50,000 + 0 + 700 + 30 + 2$
  - $70,00,000 + 5,00,000 + 80,000 + 1,000 + 300 + 0 + 0$
  - $20,00,000 + 3,00,000 + 0 + 9,000 + 400 + 60 + 8$
  - $50,00,000 + 0 + 0 + 2,000 + 600 + 10 + 1$
- 35,036
  - 2,00,41,506
  - 34,84,000

5.

	Number	Successor	Predecessor
a.	5,00,823	<b>5,00,824</b>	<b>5,00,822</b>
b.	2,29,69,199	<b>2,29,69,200</b>	<b>2,29,69,198</b>
c.	87,16,500	<b>87,16,501</b>	<b>87,16,499</b>

- >
  - >
  - >
  - =
- $3,44,561 < 4,18,56,789 < 6,49,08,401 < 29,87,12,345$
  - $2,28,34,384 < 4,22,41,222 < 23,71,34,810 < 26,99,12,025$

- $29,27,22,415 > 4,92,34,240 > 3,28,61,237 > 23,44,567$
  - $24,21,31,323 > 21,19,23,524 > 5,23,33,642 > 5,21,31,202$
- 18,000,000
  - 76,005,002
  - 8,357,248
- Fifty-eight million one hundred twenty-three thousand seven hundred twenty-six
  - Twenty-nine million seven hundred seventeen thousand two hundred twenty-two
  - Forty-nine million one hundred eleven thousand two hundred eight
  - Nine hundred ninety-nine thousand nine hundred twenty-one

11.

Numbers	Indian system	Number names
45393738	4,53,93,738	Four crore fifty-three lakh ninety-three thousand seven hundred thirty-eight
98124670	9,81,24,670	Nine crore eighty-one lakh twenty-four thousand six hundred seventy
92663212	9,26,63,212	Nine crore twenty-six lakh sixty-three thousand two hundred twelve
82006210	8,20,06,210	Eight crore twenty lakh six thousand two hundred ten

Numbers	International system	Number names
45393738	45,393,738	Forty-five million three hundred ninety-three thousand seven hundred thirty-eight
98124670	98,124,670	Ninety-eight million one hundred twenty-four thousand six hundred seventy
92663212	92,663,212	Ninety-two million six hundred sixty-three thousand two hundred twelve
82006210	82,006,210	Eighty-two million six thousand two hundred ten

- >
  - >
  - >
  - >
- 4,140
  - 7,680
  - 5,320
  - 23,400
  - 98,440
  - 3,99,000
- 6,200
  - 6,100
  - 3,800
  - 34,800
  - 94,200
  - 5,11,200
- 5,000
  - 25,000
  - 79,000
  - 54,000
  - 7,92,000
  - 3,05,000
- XI
  - LXXVIII
  - CXLVI
  - CCVII
  - CCCXLV
  - DLXXXIX

17. a. 14      b. 93      c. 84      d. 255  
e. 311      f. 461

### Mental Maths

- a. 10      b. 20,00,006      c. 1,00,00,000  
d. 9,76,700; 9,77,000  
e. 410      f. 5 ten thousand

### I am a learner

- A. 1. d      2. b      3. c      4. a      5. a  
B. 1. 3,47,790      7,000  
2. 964,815      900,000  
3. 6,00,488      8  
4. 733,901      30,000  
5. 2,426,571      500  
C. 1. <      2. >      3. >      4. >  
D. 1. 26,28,673 < 35,28,829 < 38,49,873 < 72,73,786  
2. 93,40,374 < 2,74,34,837 < 4,93,77,344 < 8,67,47,545  
3. 5,63,82,834 < 6,38,36,386 < 7,52,78,673 < 7,64,37,623  
E. 1. 83,72,881 > 78,27,321 > 73,23,882 > 67,32,901  
2. 5,94,59,344 > 3,04,84,038 > 84,04,347 > 78,49,394  
3. 8,63,63,836 > 4,67,73,263 > 3,65,28,384 > 2,57,87,763

F.

	Number	Nearest 10	Nearest 100	Nearest 1000
1.	35,82,917	35,82,920	35,82,900	35,83,000
2.	34,58,789	34,58,790	34,58,800	34,59,000
3.	43,67,361	43,67,360	43,67,400	43,67,000
4.	2,33,67,433	2,33,67,430	2,33,67,400	2,33,67,000
5.	8,92,53,549	8,92,53,550	8,92,53,500	8,92,54,000

- G. 1. LXXXVII; 87      2. CXCIII; 193  
3. CX; 110      4. XLI; 41  
5. DCCCLXXX; 880      6. LXVI; 66

**I am an artist:** Try yourself

**My Secret Journal:** Try yourself

**I am a thinker:** 4,34,810

**I am an all-rounder**

- A. **English** – Ascending, Predecessor, Roman Numerals, Successor  
B. **Science** – 4,368 kg;      4,368  $\approx$  4,000  
C. **Social Studies** – Area = 25,00,000 sq. km  
Indian system - 25,00,000 – Twenty-five lakh  
International system – 2,500,000 – Two million five hundred thousand

## Students' Worksheets

### Worksheet 1

- A. 1. 94,219,071 – Ninety-four million two hundred nineteen thousand seventy-one  
2. 82,350,925 – Eighty-two million three hundred fifty thousand nine hundred twenty-five  
3. 39,232,510 – Thirty-nine million two hundred thirty-two thousand five hundred ten  
4. 55,527,993 – Fifty-five million five hundred twenty-seven thousand nine hundred ninety-three  
5. 14,705,234 – Fourteen million seven hundred five thousand two hundred thirty-four  
B. 1. 100      2. 98,500      3. 0 hundred  
4. 2,00,034      5. 75,00,00,403  
C. 1. LXXII      2. CXVII      3. CCXXXVIII  
4. DXIV      5. CML

### Worksheet 2

- A. 1. 4,76,39,602      47,639,602  
2. 8,29,66,450      82,966,450  
3. 6,40,11,509      64,011,509  
4. 5,79,15,602      57,915,602  
5. 3,87,47,819      38,747,819

B.

	Numbers	Successor	Predecessor
1.	41,52,625	41,52,626	41,52,624
2.	37,48,280	37,48,281	37,48,279
3.	2,73,48,312	2,73,48,313	2,73,48,311
4.	5,27,18,072	5,27,18,073	5,27,18,071
5.	7,16,97,840	7,16,97,841	7,16,97,839

- C. 1. False      2. True      3. True  
4. False      5. True

### Worksheet 3

- A. 1. Twenty-four lakh thirty-two thousand eight hundred seventy-five  
2. Sixty-seven lakh ninety-nine thousand eight hundred eighty-five  
3. Four crore fifty-nine lakh seventy-five thousand eight hundred thirty  
4. Five crore thirty-one lakh twenty-seven thousand five hundred twenty-six  
5. Seventy-four crore four lakh eight hundred twelve

- B. 1. 88,88,750                      50,00,078  
 2. 99,99,841                      11,11,489  
 3. 77,77,632                      22,22,367  
 4. 88,88,740                      40,00,078  
 5. 99,99,531                      11,11,359

C.

	Numbers	Nearest 10	Nearest 100
1.	4,135	4,140	4,100
2.	21,543	21,540	21,500
3.	7,00,171	7,00,170	7,00,200
4.	92,65,783	92,65,780	92,65,800
5.	1,37,22,505	1,37,22,510	1,37,22,500

### Worksheet 4

- A. 1. Ninety-nine million eight hundred one thousand three hundred sixty-seven  
 2. Seventy-six million thirty-one thousand six hundred fifty-four  
 3. Thirty-eight million two hundred thirteen thousand eight hundred seventy-nine  
 4. Six hundred sixty-eight million seven hundred ninety-five thousand thirty-five  
 5. Two hundred eighty-five million six hundred twenty-two thousand one hundred thirteen
- B. 1. 70,028      2. 6,700,005      3. 20,07,015  
 4. 81,70,004      5. 6,09,40,010
- C. 1. 458      2. 84      3. 312      4. 92      5. 265

### Teacher's Worksheets

#### Worksheet 1

- A. 1. Greatest possible number – 986510;  
 Smallest possible number - 105689  
 2.  $43869851 > 43680851 > 43679851$   
 3. Eighty-three lakhs forty thousand three hundred ninety-two  
 4.  $300000 + 50000 + 9000 + 800 + 0 + 7$   
 5. 79,620,356 - Seventy-nine million six hundred twenty thousand three hundred fifty-six
- B. 1. 9,24,00,000      2. 10,00,000      3. 9,99,99,850  
 4. 48,10,999      5. 1,00,00,001
- C. 1. 27                      2. 61  
 3. 259                      4. 438

#### Worksheet 2

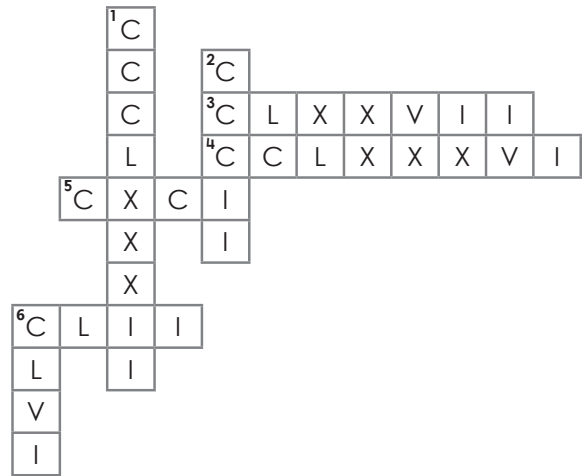
- A. 1. >      2. >      3. <      4. >  
 B. 1. 150      2. 120      3. 130  
 C. 1. 8600      2. 9400      3. 3200      4. 12,700  
 D. 1. 9000      2. 29,000      3. 66,000      4. 5,13,000

## Theme 1: What Makes Our Land

### Ch-2: Operations with Large Numbers

### Main Coursebook

I am ready



Icebreaker:  $187 \div 2$

1. a. 38,56,535      b. 61,82,135      c. 77,29,572  
 2. a. 64,45,221      b. 47,12,551      c. 81,90,719  
 3. Sum – 1,09,99,999  
 Difference – 89,99,999

In-text Question

1. No                      2. No  
 4. a. 2,23,43,234 pencils      b. 2,59,08,466  
 c. ₹14,277,001                      d. 28,97,545 bags  
 5. a. 2,38,67,368                      b. 1,01,71,469  
 c. 7,83,99,204  
 6. a. Q = 23,125      R = 15      b. Q = 8,480      R = 10  
 c. Q = 6,220      R = 27  
 7. a. 15,20,08,950 breads      b. 45,110 packets  
 8. a. 41,15,995                      b. 4,88,69,514  
 c. 236                      d. 35,06,305  
 e. 61,26,325

In-text Question

1. 750                      2. 175  
 9. a. 10                      b. 82                      c. 292                      d. 0

Mental Maths

- a. >                      b. =                      c. <  
 d. <                      e. <                      f. >

I am a learner

- A. 1. b      2. b      3. a      4. b      5. d  
 B. 1. False      2. False      3. True  
 4. False      5. False  
 C. 1. 1,65,53,779      2. 7,61,06,356      3. 6,82,087  
 4. 92,52,181      5. 9,79,75,455      6. 2,12,040

- D. 1. 29,72,88,324      2. 7,61,41,520  
 3. 25,66,63,890      4. 12,18,76,887
- E. 1. Q = 2,30,912; R = 15  
 2. Q = 7,69,171; R = 81  
 3. Q = 1,20,448; R = 202
- F. 1. 4,35,28,002 females  
 2. 6,79,41,205      3. 7,52,50,116  
 4. 7,486      5. 5,47,259
- G. 1. 21      2. 11      3. 20

**I am an artist:** Try yourself

**My Secret Journal:** Try yourself

**I am a doer:** Recyclable waste; 3,291 g

**I am an all-rounder**

**A. English –**

- Subject – Naveen; Object - learns tables every day.
- Subject - I love; Object - to solve multiplication word problems.

**B. Science –** 2,26,317 cartons

**C. Social Studies –** 1,152 hours

**Students' Worksheets**

**Worksheet 1**

- A. 1. → c    2. → e    3. → b    4. → a    5. → d
- B. 1. 7,78,05,251      2. 90,05,29,252  
 3. 47,13,23,680      4. 68,58,94,455  
 5. 22,98,01,534
- C. 1. 0      2. 58,65,42,300  
 3. 8,23,59,621      4. 1  
 5. 3,43,86,008

**Worksheet 2**

- A. 1. subtrahend      2. successor  
 3. multiplier      4. Division  
 5. predecessor
- B. 1. 53,67,86,386      2. 7,54,81,568  
 3. 6,69,67,092      4. 88,61,80,767  
 5. 44,45,29,213
- C. 1. True      2. False      3. False  
 4. False      5. False

**Worksheet 3**

- A. 1. 0      2. 1      3. 13,77,895  
 4. 1      5. 81,49,22,897
- B. 1. 45,67,98,033      2. 42,22,66,095  
 3. 94,12,501      4. 22,34,25,332  
 5. 26,395

C.

÷	34,41,084	2,14,92,625	9,25,75,570	1,70,36,239
1. 6	Q = 5,73,514; R = 0	Q = 35,82,104; R = 1	Q = 1,54,29,261; R = 4	Q = 28,39,373; R = 1
2. 25	Q = 137,643; R = 9	Q = 8,59,705; R = 0	Q = 37,03,022; R = 20	Q = 6,81,449; R = 14
3. 34	Q = 1,01,208; R = 12	Q = 6,32,136; R = 1	Q = 27,22,810; R = 30	Q = 5,01,065; R = 29
4. 50	Q = 68,821; R = 34	Q = 4,29,852; R = 25	Q = 18,51,511; R = 20	Q = 3,40,724; R = 39
5. 87	Q = 39,552; R = 60	Q = 2,47,041; R = 48	Q = 10,64,087; R = 1	Q = 1,95,818; R = 73

**Worksheet 4**

- A. 1. a    2. c    3. a    4. d    5. c
- B. 2. 10,77,37,512      2. 28,33,91,865  
 3. 17,15,89,810      4. 37,25,77,530  
 5. 14,67,79,176
- C. 1. 43,45,251      2. 43,256  
 3. 37,08,054      4. 1,27,34,565  
 5. 0

**Teacher's Worksheets**

**Worksheet 1**

- A. 1. 9100    2. 100    3. 0    4. 38415
- B. 1.
- $$\begin{array}{r} 7 \ 2 \ 3 \ 4 \ 7 \ 8 \\ - \ 4 \ 2 \ 3 \ 2 \ 4 \ 3 \\ \hline 3 \ 0 \ 0 \ 2 \ 3 \ 5 \end{array}$$
- 2.
- $$\begin{array}{r} 7 \ 5 \ 4 \ 2 \ 4 \ 7 \\ - \ 4 \ 3 \ 2 \ 0 \ 0 \ 7 \\ \hline 3 \ 2 \ 2 \ 2 \ 4 \ 0 \end{array}$$
- 3.
- $$\begin{array}{r} 9 \ 3 \ 4 \ 6 \ 5 \ 5 \\ + \ 0 \ 5 \ 3 \ 3 \ 1 \ 0 \\ \hline 9 \ 8 \ 7 \ 9 \ 6 \ 5 \end{array}$$
- 4.
- $$\begin{array}{r} 5 \ 9 \ 5 \ 5 \ 3 \ 3 \\ + \ 2 \ 0 \ 2 \ 3 \ 6 \ 5 \\ \hline 7 \ 9 \ 7 \ 8 \ 9 \ 8 \end{array}$$

- C. 1. ₹4,51,125      2. ₹8,433; ₹28,122

**Worksheet 2**

- A. 1. 27    2. 37    3. 40    4. 0
- B. 1. 19    2. 7    3. 34    4. 2
- C. 1. 3,92,700 apples    2. ₹17,13,985  
 3. ₹2,48,39,000    4. ₹1,99,980  
 5. ₹20,86,000

## Theme 2: What Helps Us Survive

### Ch-3: Factors and Multiples

#### Main Coursebook

#### I am ready

a.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

b. 3

**Icebreaker:** 6 ways  $\rightarrow 5 \times 4 = 20; 4 \times 5 = 20; 10 \times 2 = 20; 2 \times 10 = 20; 20 \times 1 = 20; 1 \times 20 = 20$

#### In-text Question

1. false      2. true      3. false
  1. a. 1, 3, 5, 15    b. 1, 2, 3, 5, 6, 10, 15, 30  
c. 1, 2, 4, 5, 8, 10, 20, 40  
d. 1, 5, 11, 55    e. 1, 2, 4, 5, 10, 20, 25, 50, 100  
f. 1, 5, 25, 125
  2. a. 6, 12, 18, 24, 30    b. 12, 24, 36, 48, 60  
c. 15, 30, 45, 60, 75    d. 17, 34, 51, 68, 85  
e. 25, 50, 75, 100, 125    f. 30, 60, 90, 120, 150
- 3.

Number	2	3	4	5	6	8	9	10	11	12	15
2,625	x	✓	x	✓	x	x	x	x	x	x	✓
2,121	x	✓	x	x	x	x	x	x	x	x	x
18,018	✓	✓	x	x	✓	x	✓	x	✓	x	x
36,000	✓	✓	✓	✓	x	✓	✓	✓	x	✓	✓
1,00,406	✓	x	x	x	x	x	x	x	x	x	x

4. a. false    b. false    c. true    d. true

#### In-text Question

1. false      2. true      3. true
5. 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97
6. 29, 31 and 71, 73 are twin primes.
7. a.  $2 \times 31$       b.  $7 \times 13$   
c.  $2 \times 2 \times 3 \times 3 \times 3$     d.  $2 \times 2 \times 2 \times 2 \times 3 \times 3$   
e.  $13 \times 13$
8. a.  $2 \times 2 \times 2 \times 2 \times 3$     b.  $3 \times 3 \times 7$   
c.  $3 \times 29$       d.  $2 \times 2 \times 2 \times 3 \times 5$   
e.  $2 \times 2 \times 47$
9. a. 13      b. 18      c. 1      d. 8
10. a. 7      b. 21      c. 5      d. 25
11. a. 56      b. 60      c. 36      d. 192

12. a. 225    b. 63      c. 6930    d. 2160
13. a. 15 L    b. 300  
c. 20th day    d. 135

#### Mental Maths

	Number 1	Number 2	HCF	LCM	Product of the numbers	Product of HCF and LCM
a.	12	40	4	120	480	480
b.	15	45	15	45	675	675
c.	35	105	35	105	3675	3675
d.	48	84	12	336	4032	4032
e.	66	99	33	198	6534	6534

#### I am a learner

1. b      2. c      3. d      4. d      5. a
1. 1, 2, 5 and 10      2. 1, 6 and 12  
3. 3      4. 20      5. 1 and 5
1. 5      2. 7      3. 6  
4. 7      5. 5      6. 48
1. 5 litres      2. 40

**I am an artist:** 30, 60, 90; LCM = 30

**My Secret Journal:** Accept all relevant responses.

**I am a thinker:** 106 marbles

#### I am an all-rounder

- English** – 'ew' words new, flew; new – 3 letters, flew – 4 letters, HCF = 1, LCM = 12
- Science** – 560 flats
- Social Studies** – 10:00 pm

#### Students' Worksheets

##### Worksheet 1

1. false      2. true      3. true  
4. true      5. false
1. 1, 3, 5, 15      2. 1, 5, 25  
3. 1, 2, 3, 5, 6, 10, 15, 30  
4. 1, 3, 17, 51      5. 1, 5, 13, 65
1. 8, 16, 24, 32, 40    4. 12, 24, 36, 48, 60  
3. 30, 60, 90, 120, 150  
4. 50, 100, 150, 200, 250  
5. 70, 140, 210, 280, 350

##### Worksheet 2

1. true      2. true      3. true  
4. true      5. true
1. yes      2. yes      3. no  
4. no      5. no
1. 1, 2, 11, 22      2. 1, 3, 9, 27  
3. 1, 2, 4, 5, 8, 10, 20, 40  
4. 1, 5, 17, 85  
5. 1, 2, 3, 4, 6, 12, 13, 26, 39, 52, 78, 156

### Worksheet 3

- A. 1. false      2. true      3. true  
 4. true      5. false
- B. 1. itself      2. 1      3. 1  
 4. 2 and 1      5. odd
- C. 1.  $2 \times 3 \times 5$       2. 19, 38, 57  
 3. 7, 21, 35, 49, 63  
 4. 11, 31, 41, 61, 71      5. 5 and 15

### Worksheet 4

- A. 1. even      2. 3 and 5      3. 2 and 3  
 4. factor      5. 0, 4
- B. 1. Numbers that have only two factors that is 1 and the number itself are called prime numbers.  
 2. Co-prime numbers are pairs of numbers that do not have any common factor other than 1.  
 3. Numbers that have more than two factors are called composite numbers.  
 4. 1  
 5. To find the multiple of a number we multiply it by 1, 2, 3, 4 and so on.
- C. Sample answer:  
 1.  $2 \times 2 \times 2 \times 3$        $4 \times 2 \times 3$        $2 \times 2 \times 6$   
 $4 \times 6$        $8 \times 3$        $12 \times 2$   
 2.  $2 \times 3 \times 5$        $6 \times 5$        $2 \times 15$   
 $10 \times 3$   
 3.  $7 \times 5$        $5 \times 7$   
 4.  $3 \times 3 \times 5$        $9 \times 5$        $3 \times 15$   
 5.  $2 \times 2 \times 2 \times 2 \times 5$        $4 \times 2 \times 2 \times 5$        $2 \times 4 \times 10$   
 $8 \times 2 \times 5$

### Teacher's Worksheets

#### Worksheet 1

- A. 1. 40      2. 1      3. 12      4. 27  
 B. 1.  $2 \times 2 \times 3$       2.  $3 \times 3 \times 3$   
 C. 1. 4      2. 2      3. 5      4. 2

#### Worksheet 2

- A. 1. 260      2. 450, 138      3. 513, 900

B.

12	1	2	3	4	6	12	-	-
18	1	2	3	6	9	18	-	-
30	1	2	3	5	6	10	15	30
40	1	2	4	5	8	10	20	40
60	1	3	7	9	21	63	-	-

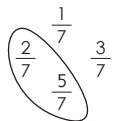
- C. 1. 5      2. 36

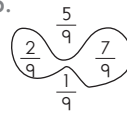
## Theme 3: Different Yet Alike

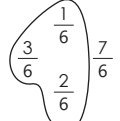
### Ch-4: Fractions

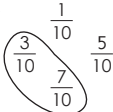
#### Main Coursebook

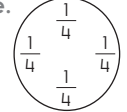
#### I am ready

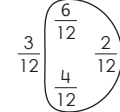
a. 

b. 

c. 

d. 

e. 

f. 

Icebreaker:  $\frac{4}{12} = \frac{1}{3}$

#### In-text Question

1. No      2. Yes
1. b. 1      c. 6      d. 2
2. a. Yes      b. No      c. Yes      d. Yes
3. a.  $\frac{5}{6}$       b.  $\frac{1}{3}$       c.  $\frac{8}{5}$       d.  $\frac{11}{13}$       e.  $\frac{28}{65}$
4. a.  $\frac{2}{7}$       b.  $\frac{3}{5}$       c.  $\frac{1}{3}$       d.  $\frac{5}{2}$       e.  $\frac{2}{5}$
5. a. <      b. >      c. <      d. <
6. a.  $\frac{4}{15} < \frac{4}{13} < \frac{4}{11} < \frac{4}{9}$       b.  $\frac{1}{2} < \frac{6}{11} < \frac{2}{3} < \frac{4}{5}$   
 c.  $\frac{6}{10} < \frac{4}{6} < \frac{4}{5} < \frac{6}{7}$
7. a.  $\frac{8}{5} > \frac{8}{7} > \frac{8}{10} > \frac{8}{11}$       b.  $\frac{5}{4} < \frac{6}{5} < \frac{12}{20} < \frac{1}{2}$   
 c.  $\frac{14}{14} < \frac{11}{14} < \frac{17}{28} < \frac{4}{7}$
8. a.  $\frac{11}{9}$       b.  $\frac{67}{40}$       c.  $\frac{83}{12}$       d.  $\frac{91}{18}$
9. a.  $\frac{3}{5}$  km      b.  $\frac{31}{20}$       c.  $4\frac{23}{54}$  km
10. a.  $\frac{11}{19}$       b.  $\frac{1}{42}$       c.  $\frac{7}{3}$       d.  $8\frac{74}{80}$
11. a.  $\frac{31}{35}$       b.  $14\frac{1}{4}$  kg      c.  $\frac{116}{11}$
12. a.  $\frac{2}{3}$       b.  $\frac{3}{2}$       c.  $\frac{7}{2}$       d.  $\frac{1}{2}$   
 e.  $\frac{72}{25}$
13. a.  $\frac{32}{7}$  m      b. ₹756      c.  $107\frac{1}{2}$

14. a.  $\frac{1}{6}$     b.  $\frac{5}{2}$     c.  $\frac{8}{7}$     d.  $\frac{10}{9}$     e.  $\frac{31}{29}$
15. a. 20    b.  $\frac{27}{32}$     c.  $\frac{3}{35}$
- d.  $\frac{1}{4}$     e.  $\frac{27}{4}$

### In-text Question

1.  $\frac{1}{25}$     2.  $\frac{8}{9}$
16. a. 245 gift packs    b. ₹  $\frac{675}{91}$
- c. 57 pieces

### Mental Maths

1. a.  $\frac{30}{45}$     b.  $\frac{72}{108}$     c.  $\frac{54}{81}$     d.  $\frac{90}{135}$
2. a.  $9\frac{10}{63}$     b.  $3\frac{5}{12}$     c.  $\frac{1}{10}$     d.  $15\frac{7}{12}$

### I am a learner

- A. 1. d    2. b    3. a    4. c    5. a
- B. 1. → c    2. → d    3. → a    4. → e    5. → b
- C. 1.  $\frac{3}{4}$     2.  $\frac{3}{4}$     3.  $\frac{14}{15}$
4.  $\frac{29}{48}$     5.  $\frac{609}{1000}$
- D. 1. <    2. >    3. >    4. <
- E. 1.  $\frac{7}{28} < \frac{7}{25} < \frac{7}{20} < \frac{7}{18}$
2.  $\frac{1}{3} < \frac{3}{6} < \frac{14}{24} < \frac{8}{12}$
3.  $\frac{10}{20} < \frac{3}{5} < \frac{7}{10} < \frac{4}{5}$
- F. 1.  $\frac{52}{60}$     2.  $4\frac{19}{35}$     3.  $\frac{10}{36}$     4.  $1\frac{7}{25}$
5. 14    6.  $\frac{1}{8}$     7.  $\frac{1}{12}$     8.  $\frac{44}{9}$
- G. 1.  $7\frac{6}{20}$  km    2.  $\frac{1}{4}$  litres
3. 20 metres    4.  $\frac{13}{5}$  pieces

I am an artist: Try yourself

My Secret Journal: Try yourself

I am a doer:  $\frac{1}{3}$  km

I am an all-rounder

- A. English –
- Rashi will shade equal parts in the figures.
  - Gautam arranged fractions in ascending and descending order.

B. Science –  $\frac{3}{10}, \frac{6}{20}, \frac{9}{30}$  (Answer may vary)

C. Social Studies –

DEMOCRATIC REPUBLIC of Congo - 25






Fraction of 'O' =  $\frac{3}{25}$     Fraction of 'C' =  $\frac{4}{25}$

## Students' Worksheets

### Worksheet 1

- A. 1.  $\frac{1}{7}$     2.  $\frac{5}{7}$     3.  $\frac{3}{5}$
4. multiplicative inverse    5. Proper

B.

Figure	Total number of equal parts	Number of shaded parts	Fraction of unshaded parts
1. 	5	3	$\frac{2}{5}$
2. 	6	2	$\frac{4}{6}$
3. 	6	3	$\frac{3}{6}$
4. 	3	1	$\frac{2}{3}$
5. 	9	4	$\frac{5}{9}$

- C. 1. >    2. >    3. <    4. <    5. >

### Worksheet 2

- A. 1. → c    2. → d    3. → a    4. → e    5. → b
- B. 1.  $\frac{6}{17}$     2.  $\frac{7}{15}$     3.  $\frac{8}{9}$     4.  $\frac{4}{5}$     5.  $\frac{3}{5}$
- C.

	Multiply the numerator and denominator by				
	4	7	9	11	15
1. $\frac{2}{6}$	$\frac{8}{24}$	$\frac{14}{42}$	$\frac{18}{54}$	$\frac{22}{66}$	$\frac{30}{90}$
2. $\frac{5}{8}$	$\frac{20}{32}$	$\frac{35}{56}$	$\frac{45}{72}$	$\frac{55}{88}$	$\frac{75}{120}$
3. $\frac{1}{7}$	$\frac{4}{28}$	$\frac{7}{49}$	$\frac{9}{63}$	$\frac{11}{77}$	$\frac{15}{105}$
4. $\frac{4}{13}$	$\frac{16}{52}$	$\frac{28}{91}$	$\frac{36}{117}$	$\frac{44}{143}$	$\frac{60}{195}$
5. $\frac{16}{9}$	$\frac{64}{36}$	$\frac{112}{63}$	$\frac{144}{81}$	$\frac{176}{99}$	$\frac{240}{135}$

### Worksheet 3

- A. 1. b    2. a    3. c    4. d    5. b  
 B. 1.  $\frac{48}{64}$     2.  $\frac{48}{84}$     3.  $\frac{48}{78}$     4.  $\frac{48}{21}$     5.  $\frac{48}{50}$   
 C. 1.  $\frac{6}{3}$     2.  $\frac{8}{5}$     3. 7    4.  $\frac{9}{8}$     5.  $\frac{11}{10}$

### Worksheet 4

- A. 1. True    2. True    3. False  
 4. True    5. False  
 B. 1.  $\frac{3}{4}$     2.  $\frac{3}{4}$     3.  $\frac{5}{9}$     4.  $\frac{3}{5}$     5.  $\frac{1}{2}$

C.

		Divide the numerator and denominator by			
		2	3	5	6
1.	$\frac{60}{30}$	$\frac{30}{15}$	$\frac{20}{10}$	$\frac{12}{6}$	$\frac{10}{5}$
2.	$\frac{150}{300}$	$\frac{75}{150}$	$\frac{50}{100}$	$\frac{30}{60}$	$\frac{25}{50}$
3.	$\frac{240}{120}$	$\frac{120}{60}$	$\frac{80}{40}$	$\frac{48}{24}$	$\frac{40}{20}$
4.	$\frac{420}{210}$	$\frac{210}{105}$	$\frac{140}{70}$	$\frac{84}{42}$	$\frac{70}{35}$
5.	$\frac{600}{300}$	$\frac{300}{150}$	$\frac{200}{100}$	$\frac{120}{60}$	$\frac{100}{50}$

### Teacher's Worksheets

#### Worksheet 1

- A. 1.  $\frac{1}{15}$     2.  $\frac{11}{21}$     3.  $\frac{1}{2}$     4.  $\frac{2}{3}$   
 B. 1.  $\frac{8}{24}, \frac{12}{36}$     2.  $\frac{10}{80}, \frac{15}{120}$     3.  $\frac{6}{10}, \frac{9}{15}$   
 4.  $\frac{4}{6}, \frac{6}{9}$     5.  $\frac{2}{4}, \frac{3}{6}$   
 C. 1. <    2. <    3. =  
 4. >    5. <    6. <  
 D. 1.  $\frac{1}{5}$     2.  $\frac{9}{2}$     3.  $\frac{14}{15}$     4.  $\frac{19}{22}$

#### Worksheet 2

- A. 1.  $\frac{16}{20}$     2.  $\frac{12}{15}$     3.  $\frac{20}{25}$   
 B. 1.  $\frac{7}{27}, \frac{11}{27}, \frac{17}{27}, \frac{19}{27}$     2.  $\frac{31}{29}, \frac{31}{23}, \frac{31}{13}, \frac{31}{7}$   
 C. 1.  $\frac{12}{13}, \frac{11}{13}, \frac{9}{13}, \frac{7}{13}$     2.  $\frac{18}{5}, \frac{18}{7}, \frac{18}{13}, \frac{18}{17}$

## Theme 3: Different Yet Alike

### Ch-5: Decimals

#### Main Coursebook

#### I am ready

- a. 486.13 – Four hundred eighty-six point one three  
 b. 247.35 – Two hundred forty-seven point three five  
 c. 812.62 – Eight hundred twelve point six two

#### Icebreaker: 3

1. a. 0.03    b. 10.052    c. 507.489  
 2. a. 3.6    3.7    3.8  
 b. 15.11    15.12    15.13  
 c. 47.070    47.071    47.072  
 3. a. 0.5    b. 3.8    c. 3.67  
 d. 4.691    e. 8.485  
 4. a.  $\frac{38}{10}$     b.  $\frac{453}{100}$     c.  $\frac{7}{100}$     d.  $\frac{93402}{100}$   
 e.  $\frac{1}{1000}$     f.  $\frac{88712}{1000}$   
 5. a.  $5 + 0.4;$      $5 + \frac{4}{10}$   
 b.  $60 + 7 + 0.9;$      $60 + 7 + \frac{9}{10}$   
 c.  $50 + 1 + 0.6 + 0.02;$      $50 + 1 + \frac{6}{10} + \frac{2}{100}$   
 d.  $300 + 20 + 1 + 0 + 0.07;$      $300 + 20 + 1 + 0 + \frac{7}{100}$   
 e.  $2 + 0 + 0 + 0.005;$      $2 + 0 + 0 + \frac{5}{1000}$   
 f.  $70 + 3 + 0.4 + 0.05 + 0;$   
 $70 + 3 + \frac{4}{10} + \frac{5}{100} + 0$   
 6. a. 78.058    b. 67.03    c. 0.809

#### In-text Question

1. 0.099    2. 2  
 7. a. 0.20    0.200    b. 82.600    82.6000  
 c. 41.20    41.200    d. 7.0    7.00  
 e. 68.1050    68.10500  
 8. a. 6.30; 6.16    b. 7.530; 13.400; 313.086  
 c. 5.900; 32.170; 80.045  
 9. a. >    b. <    c. >    d. =

#### In-text Question

1. No    2. 5.607  
 10. a. 5.798    b. 14.329  
 c. 44.184    d. 92.14  
 11. ₹694.16  
 12. a. 937.125    b. 3.946  
 c. 19.186    d. 43.24  
 13. 1.13 km



14. a. 17                      b. 206.5                      c. 316.44  
       d. 449.19                      e. 2307.026
15. 76.5 cm
16. a. 10.82                      b. 14.47  
       c. 336.63                      d. 377.52
17. a. 6.515                      b. 5.725
18. a. 27.4                      b. 873.9                      c. 4390
19. a. 10                      b. 100                      c. 1000

### Mental Maths

1. a. 21                      b. 5.58  
       c. 4.5724                      d. 0.1264
2. a. 35.175                      b. 100  
       c. 2.1375                      d. 1000

### I am a learner

- A. 1. b      2. a      3. b      4. a      5. b
- B. 1. 2450.0      2. 91.3      3. 100  
       4. 0.014      5. 1.732      6. 41.250
- C. 1. 4.723, 2.320, 24.070, 56.200  
       2. 91.880, 124.167, 935.120, 21.293  
       3. 62.900, 430.350, 216.915, 122.330  
       4. 1.047, 222.100, 58.220, 78.700
- D. 1. 132.018      2. 294.236      3. 5131.558
- E. 1. 160.135      2. 7.073      3. 369.244
- F. 1. 837.52      2. 134.406      3. 0.224  
       4. 2.531      5. 1070      6. 66276.11

**I am an artist:** Try yourself

**My Secret Journal:** Try yourself

**I am a thinker:**

0.8	1.1	1.1
1.8	0.5	0.7
0.4	1.4	1.2

**I am an all-rounder**

- A. **English** – 1. thirst                      2. third
- B. **Science** – Yes,  $\frac{2}{9}$ ; 0.22
- C. **Social Studies** –  $\frac{215}{10}$

## Students' Worksheets

### Worksheet 1

- A. Answers may vary.
- B.

	Decimal numbers	÷ 10	÷ 100	÷ 1000
1.	9.3	0.93	0.093	0.0093
2.	85.6	8.56	0.856	0.0856
3.	98.77	9.877	0.9877	0.09877
4.	308.94	30.894	3.0894	0.30894
5.	62.331	6.2331	0.62331	0.062331

- C. 1. 0.046      2. Zero and forty-six thousandths  
       3.  $0.0 + 0.04 + 0.006$   
       4.

Ones	Decimal point	Tenths	Hundredths	Thousandths	Decimal number
0	.	0	4	6	0.046

5.  $0.640 - 0.046 = 0.594$

### Worksheet 2

- A. 1. True                      2. True                      3. True  
       4. False                      3. False

B.

	Decimal numbers	× 10	× 100	× 1000
1.	9.9	99	990	9900
2.	31.5	315	3150	31500
3.	67.70	677	6770	67700
4.	988.81	9888.1	98881	988810
5.	766.375	7663.75	76637.5	766375

- C. 1. 3.90      3.900      2. 20.20      20.200  
       3. 19.40      19.400      4. 45.30      45.300  
       5. 364.20      364.200

### Worksheet 3

- A. 1. 893.200      2. 4.5                      3. 2  
       4. 436.7                      5. 80.005
- B. 1. Sixty and thirty-five hundredths  
       2.  $60 + 0 + \frac{3}{10} + \frac{5}{100}$   
       3. 0                      4. 60.350  
       5.  $60 + 0 + 0.3 + 0.05$
- C. 1. 7.8                      2. 19.6                      3. 4.58  
       4. 9.243                      5. 14.89

### Worksheet 4

- A. 1. Decimals with the same number of digits after the decimal point are called like decimals.  
       2. Decimals with different number of digits after the decimal point are called unlike decimals.  
       3. The dot which separates fractional part and the whole number part in a decimal form is called decimal point.  
       4. A way of writing numbers in decimal form is called decimal expansion.  
       5. Two decimals are said to be equivalent, when they have the same value.
- B. 1. 5006.002      2. 0.308                      3. 54.015  
       4. 905.081      5. 14.075
- C. 1.  $\frac{24}{10}$                       2.  $\frac{790}{100}$                       3.  $\frac{60105}{1000}$   
       4.  $\frac{29284}{100}$                       5.  $\frac{93147}{1000}$

## Teacher's Worksheets

### Worksheet 1

	Decimal	Fractional
1.	0.4	$\frac{4}{100}$
2.	8.92	$\frac{9}{10} + \frac{2}{100}$
3.	16.032	$0 + \frac{3}{100} + \frac{2}{1000}$
4.	0.552	$\frac{5}{10} + \frac{5}{100} + \frac{2}{1000}$
5.	6.7	$\frac{7}{10}$

- B. 1. 2.020, 5.113, 7.000, 4.100  
 2. 25.100, 12.530, 2.200, 41.789  
 C. 1. 161.71 2. 2.258.7 3. 45.98 4. 148.15  
 D. 1. 140 cm 2. 2.5 km 3. Rs1,306.305

### Worksheet 2

- A. 1. 51.4 2. 8.06 3. 0.043  
 B. 1. True 2. False 3. True 4. False  
 C. 1. 4.356, 43.56, 43.65, 435.6  
 2. 21.385, 23.185, 213.85, 281.35  
 D. 1. 102.5 m 2. 1.6 kg 3. 38.5 l

## Theme 4: Living With Changes Ch-6: Percentage

### I am ready

- a.  $\frac{10}{100}$ ; 0.10 b.  $\frac{14}{100}$ ; 0.14 c.  $\frac{37}{100}$ ; 0.37  
 d.  $\frac{30}{100}$ ; 0.30

Icebreaker:  $\frac{20}{100}$ ,  $\frac{2}{10}$ ,  $\frac{1}{5}$

### In-text Question

1. Yes 2. No  
 1. a. 48% b. 2.59% c. 68%  
 d. 25% e. 735%  
 2. a.  $\frac{28}{100}$  b.  $\frac{74}{100}$  c.  $\frac{99}{100}$   
 d.  $\frac{167}{100}$  e.  $\frac{218}{100}$   
 3. a. 570% b. 2460% c. 6821%  
 d. 15312% e. 438660%  
 4. a. 0.54 b. 0.82 c. 1.43  
 d. 2.66 e. 3.85

5. a. 3.85% b. 4% c. 2% d. 44%  
 6. 80% 7. 40%  
 8. Bela – 72; Tanya – 68; Pranoy – 66

### Mental Maths

Fraction	Per cent	Decimal	Per cent
$\frac{15}{2}$	750	0.56	56
$\frac{1}{4}$	25%	$\frac{98}{125}$	78.4%
$\frac{36}{180}$	20%	1.41	141%

### I am a learner

- A. 1. c 2. c 3. a 4. b 5. d  
 B.

Fraction	Decimal	Per cent
$\frac{1}{10}$	0.1	10%
$\frac{45}{100}$	0.45	45%
$\frac{82}{100}$	0.82	82%
$\frac{256}{100}$	2.56	256%

- C. 1. 168 2. 232 3.  $\frac{59}{100}$   
 4. 2356% 5. 1008 6. 4.38  
 D. a. 500 marks b. 108 pages  
 c. 40% d. 37.4 l

I am a doer: 15 plants

### I am an all-rounder

- A. **English** –  
**sw** – swap, swat, swing, swans, swirl, swear, sweep, sweet, swift, switch, sword, sweater – 60%  
**oe** – toe, doer, shoe, shoes, poem, poetry, tomatoes – 35%  
 B. **Science** – less than 1%  
 C. **Social Studies** – 42%;  $\frac{42}{100}$

## Students' Worksheets

### Worksheet 1

- A. 1. 150% 2. 2140 3. 6734  
 4. 16537 5. 317568  
 B. 1. 23% 2. 67% 3. 145%  
 4. 80% 5. 325%  
 C. 2

### Worksheet 2

- A. 1. Latin 2. % 3.  $\frac{90}{100}$   
 4. 78% 5. 100

- B. 1. 0.22      2. 0.96      3. 1.89  
 4. 0.0592      5. 0.7642  
 C. 5

### Worksheet 3

- A. 1. 44      2. 105.6      3. 270  
 4. 366      5. 1,250  
 B. 1. 115%      2. 318%      3. 24%  
 4. 620%      5. 470%  
 C. 2

### Worksheet 4

- A. 1. 27%      2. 56%      3. 68%  
 4. 82%      5. 97%  
 B. 1. 2%      2. 2%      3. 4%  
 4. 5%      5. 2%  
 C. 4

## Teacher's Worksheets

### Worksheet 1

- A. 1.  $\frac{43}{100}$       2.  $\frac{34}{100}$       3.  $\frac{72}{100}$   
 4.  $\frac{63}{100}$       5.  $\frac{9}{100}$       6.  $\frac{27}{100}$   
 B. 1.  $\frac{10}{20}$ ; 50%      2.  $\frac{23}{50}$ ; 46%      3.  $\frac{19}{100}$ ; 19%  
 C. 1. 93%      2. 492%      3. 683%  
 4. 2945%      5. 4864%      6. 8%  
 D. 1. 100      2. 36      3. 200  
 4. 76      5. 320      6. 186

### Worksheet 2

- A. 1. 50 days      2. 57 pages      3. 15.30 m  
 4. 7.2 l      5. 6 km      6. 54 kg  
 B. 1. 2.5%      2. 1%      3. 30%  
 4. 120 p      5. 5%      6. 35 kg  
 C. 1. 60%      2. 80%      3. 2,782 girls

## Theme 4: Living With Changes

### Ch-7: Geometry

## Main Coursebook

### I am ready

- a. C      b. B      c. S  
 d. S      e. B      f. C

### Icebreaker: Line

1. a. OQ, OR, OS, OP, OU, OT  
 b. RT  
 c. OQ, OR, OS, OP, OU, OT, RT  
 2. Try yourself      3. Try yourself

4. a. open curve      b. open curve  
 c. closed curve      d. closed curve  
 e. open curve

### In-text Question

1. No      2. Yes  
 5. Try yourself      6. Try yourself  
 7. a. Intersecting lines      b. Perpendicular lines  
 c. Parallel lines  
 8. diameter: AB; radius: OA; chord: OE;  
 circumference: OBCAE; centre: O; arc: ACB

### Mental Maths

1. A 3      K 3      M 3      N 2      Z 2  
 2. H 4      L 1      T 2      F 4      Q 0  
 3. M, E, V, Y: straight; G, P, J: both curved and straight; S: Curved

### I am a learner

- A. 1. c      2. b      3. b      4. b      5. d  
 B. 1. c      2. d      3. e      4. a      5. b  
 C. Try yourself  
 D. 1. intersecting lines      2. parallel lines  
 3. perpendicular lines      4. parallel lines  
 5. intersecting lines  
 E. 1. Obtuse      2. Right      3. Acute  
 4. Acute      5. Obtuse  
 F. Try yourself

### I am a thinker

- a. right angle  
 b. 1. Straight angle      2. Right angle  
 3. Obtuse angle      4. Acute angle

### I am an all-rounder

- A. **English** – 1. What      2. Which  
 B. **Science** – river  
 C. **Social Studies** – H & E

## Students' Worksheets

### Worksheet 1

- A. 1. closed      2. Parallel      3. ray  
 4. 10      5. 180  
 B. 1. intersecting      2. parallel      3. intersecting  
 4. perpendicular      5. intersecting  
 C. 1. OA, OB; O      2. QP, QR; Q      3. LM, MN; M  
 4. ST, SR; S      5. OM, ON; O

### Worksheet 2

- A. 1. e      2. d      3. a      4. b      5. c  
 B. 1. pentagon      2. decagon      3. triangle  
 4. octagon      5. square  
 C. 1. A      2. S      3. O      4. R      5. A

### Worksheet 3

- A. 1. no 2. semi-circular  
3. straight lines 4. Line  
5. circumference
- B. 1. False 2. True 3. False  
4. False 5. True
- C. Try yourself

### Worksheet 4

- A. 1. Octagon 2. Triangle 3. Decagon  
4. Hexagon 5. Nonagon
- B. 1. Right angle 2. Obtuse angle  
3. Straight angle 4. Acute angle  
5. Acute angle
- C. 1. O 2. C 3. O 4. C 5. O

## Teacher's Worksheets

### Worksheet 1

- A. 1. Obtuse angle 2. Acute angle  
3. Straight angle 4. Right angle
- B. Try yourself
- C. 1. Centre 2. radius 3. diameter  
4. circumference 5. semicircle

### Worksheet 2

- A. 1. intersecting 2. parallel  
3. perpendicular 4. straight angle  
5. protractor
- B. Try yourself
- C. 1. 9 cm 2. 15.6 cm 3. 7 cm  
D. 1. 5 cm 2. 4.4 cm 3. 4.5 cm



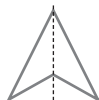
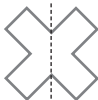
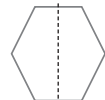





## Theme 5: Living Across Ages

### Ch-8: Symmetry, Patterns and Nets

## Main Coursebook

**I am ready:** Try yourself
















**Icebreaker:** Rectangle, square, triangle

1. a.  b.  c. 
- d.  e. 
2. a.  b.  c. 
- d.  e. 

### In-text Questions

1. Yes 2. No

3.

Shape	$\frac{1}{4}$ turn	$\frac{1}{2}$ turn
a. 		
b. 		
c. 		
d. 		
e. 		

4. a. 12 b. 122222  
c. 57 d. 23,440

### In-text Question

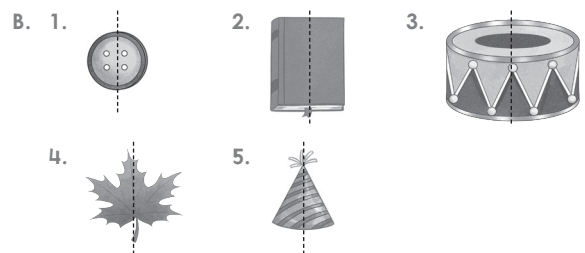
1. 6 2. Half turn  
5. Try yourself  
6. a. Front, side, top b. Top, front, side  
c. Top, front, side d. Front, side, top

### Mental Maths

1. a. 6 b. triangle and semicircle  
c. four d. H

### I am a learner

- A. 1. b 2. a 3. d 4. c 5. c



- C. Try yourself  
D. 1. a 2. a 3. c 4. b

### I am a doer: A

### I am an all-rounder

- A. **English** – puff huff  
B. **Science** – Try yourself  
C. **Social Studies** – Try yourself

## Students' Worksheets

### Worksheet 1

- A. 1. equal 2. asymmetrical  
3. infinite 4. 90 5. six
- B. 5  
C. 3

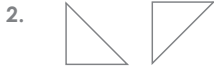
### Worksheet 2

- A. 1, 3, 5  
B. 5  
C. Try yourself

### Worksheet 3

A. Regular polygons: 1, 2, 5  
Irregular polygon: 3, 4

B. 1. 3:15; 3:45



3. 123454321; 12345654321

4. 25; 36



C. 2

### Worksheet 4

A. 4

B. Try yourself

C. 1. a      2. b      3. a      4. a      5. c

## Teacher's Worksheets

### Worksheet 1

A. 1, 4, 6

B. Try yourself

C. 1. One      2. One      3. Infinite  
4. Two      5. One

### Worksheet 2

A.

	Shape	on $\frac{1}{4}$ turn	on $\frac{1}{2}$ turn
1.			
2.			
3.			
4.			
5.			

B. 1. Front      Side      Top  
2. Top      Front      Side  
3. Side      Top      Front

### ENRICHMENT ACTIVITIES

- A. 1. 9876543      2. 1023456  
3. a.  $9876543 = 9000000 + 800000 + 70000 + 6000 + 500 + 40 + 3$   
b.  $1023456 = 1000000 + 000000 + 20000 + 3000 + 400 + 50 + 6$   
4. 10,899,999  
5. 10,108,207,192,608  
B. 1. 12, 24, 36, ...      2. 12, 24, 36, ...  
3. 12      4. Grey

C.

1. There are 2,460 boys and 1,475 girls in a school. Find the total number of students.      i. multiply ( $\times$ )      1. 2,62,922
2. 600 crayons are placed equally in 25 boxes. Find the number of crayons in each box.      ii. add (+)      2. 3,935
3. One speaker costs ₹3,599. Find the cost of 18 such speakers.      iii. subtract (-)      3. 24
4. The population of a town is 4,56,600. Out of these, 1,93,678 are females. Find the number of males.      iv. divide ( $\div$ )      4. 64,782

### REVISION WORKSHEET

- A. 1. Ascending - 7,58,739; 8,65,472; 20,87,650; 27,64,887; 47,89,587  
Descending - 47,89,587; 27,64,887; 20,87,650; 8,65,472; 7,58,739
2. Ascending - 3,54,837; 4,74,578; 35,10,384; 38,63,485; 65,45,875  
Descending - 65,45,875; 38,63,485; 35,10,384; 4,74,578; 3,54,837;
3. Ascending - 76,507; 1,01,238; 3,75,898; 87,59,832; 94,23,219  
Descending - 94,23,219; 87,59,832; 3,75,898; 1,01,238; 76,507
4. Ascending - 5,670; 34,567; 51,804; 4,36,840; 15,02,522  
Descending - 15,02,522; 4,36,840; 51,804; 34,567; 5,670
5. Ascending - 57,53,080; 25,07,848; 1,52,653; 5,45,089; 4,72,925  
Descending - 1,52,653; 4,72,925; 5,45,089; 25,07,848; 57,53,080
- B. 1. 68      2. 60      3. 246  
4. 3      5. 5000      6. 190
- C. 1. i, ii, iv      2. iv      3. i, ii, iv  
4. iii      5. i, iv
- D. 1. 1      2. 30      3. 18  
4. 4      5.  $\frac{1}{63}$       6. 27

E.

Fraction	Decimal	Per cent
$\frac{5}{100}$	0.05	5%
$\frac{95}{100}$	0.95	95%
$\frac{100}{100}$	1	1%
$\frac{78}{100}$	0.78	78%
$\frac{117}{100}$	1.17	117%

F. 1. iii      2. iv      3. ii      4. i

G. Try yourself

## Worksheets

### Lattice (Chinese) Method

#### Page 3-4

- 378
- 304
- 450
- 5525
- 3318
- 8,352
- 1,400
- 5,886
- 3,428
- 1,340
- 1,134
- 372
- 29,380
- 45,780
- 65,512
- 166,848
- 5,886
- 3,428

## Theme 6: Living Together

### Ch-9: Profit and Loss

#### Main Coursebook

##### I am ready

- a. ₹100                      b. ₹281.25                      c. ₹123  
d. ₹109                      e. ₹561                      total = ₹1174.25

##### Icebreaker: ₹210

##### In-text Question

1. Yes    2. No  
1. a. profit = ₹48                                      b. profit = ₹315  
    c. profit = ₹1,715                                      d. loss = ₹2,414  
    e. loss = ₹3,271                                      f. loss = ₹11,041  
2. Loss = ₹18,154                                      3. Profit = ₹239.5  
4. ₹3,800    5. ₹232.5

##### In-text Question

1. Cost price    2. Selling price  
6. a. ₹605    b. ₹965.12    c. ₹1,087.68  
7. a. ₹299.25    b. ₹597.06    c. ₹1,386  
8. a. 40%    b. 50%    c. 11.11%  
9.

ITEM	QUANTITY (QTY)	RATE (IN ₹)	AMOUNT (QTY × RATE)
Cookies	5	110	₹550
Breads	2	40	₹80
Buns	5	35	₹175
Pastries	10	62.50	₹625
Cup cakes	20	24	₹480
<b>Total</b>			<b>₹1,910</b>

₹90

##### 10. a.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Oranges	2 kg	₹120	₹240
Grapes	2 ½ kg	₹150	₹375
Bananas	5 dozen	₹60	₹300
Watermelons	8	₹45	₹360
<b>Total</b>			<b>₹1275</b>

##### b.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Ice cream bars	4	₹15	₹60
Ice cream cups	10	₹10	₹100
Ice cream sandwiches	5	₹35	₹175
Brick ice creams	2	₹225	₹450
<b>Total</b>			<b>₹785</b>

#### Mental Maths

- a. less    b. Selling price  
c. overhead charges                                      d. subtract  
e. Cost price

##### I am a learner

- A. 1. c                      2. a                      3. b                      4. c                      5. a  
B. a. iv                      b. v                      c. ii                      d. i  
    e. vi                      f. iii  
C. a. ₹5139                      b. ₹20,490                      c. ₹950.4  
    d. ₹1666                      e. ₹16,380  
D. a.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Biscuits	5	₹6.50	₹32.5
Raisins	7	₹86.50	₹605.5
Chocobar	4	₹15.25	₹61
Coconut water	10	₹25	₹50
<b>Total</b>			<b>₹949</b>

##### b.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Notebooks	8	₹142	₹1136
Pens	6	₹67	₹402
Calculators	3	₹180	₹540
Rulers	10	₹12	₹120
<b>Total</b>			<b>₹2198</b>

##### c.

ITEM	QUANTITY	RATE (IN ₹)	AMOUNT
Shirts	5	₹499	₹2495
Frocks	6	₹859	₹5154
shoes	4 pairs	₹499	₹1996
Handkerchiefs	10	₹20	₹200
<b>Total</b>			<b>₹9845</b>

I am a thinker: ₹96 profit

##### I am an all-rounder

###### A. English:

**SELLING PRICE:** The price at which they sell the goods to their customers is called the selling price (SP).

**COST PRICE:** The price at which a shopkeeper buys goods from the market is called the cost price (CP).

**LOSS:** The loss is the amount lost by selling an article at a price less than its cost price.

**PROFIT:** The profit is the amount gained by selling an article at a price greater than its cost price.

- B. Science: ₹1.25  
C. Social Science: ₹85

## Students' Worksheets

### Worksheet 1

- A. A. Cost price B. price C. additional  
4. profit 5. cost price  
B.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹2,432	₹2,558	₹126	
2.	₹3,211	₹2,772		₹439
3.	₹10,635	₹15,096	₹4,461	
4.	₹12,224	₹12,224	₹0	₹0
5.	₹23,246	₹17,614		₹5,632

C.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹315	₹563	₹248	
2.	₹1744	₹856		₹888
3.	₹2457	₹2547	₹90	
4.	₹5632.50	₹1250.50		₹4,382
5.	₹25,335	₹29,657	₹4,322	

### Worksheet 2

- A. 1. ₹501 2. ₹4,307 3. ₹10,261  
4. ₹22,097 5. ₹29,571  
B. 1. ₹774 2. ₹1,006 3. ₹7,900  
4. ₹10,136 5. ₹19,248

C.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹472	₹717	₹245	
2.	₹1,553	₹1,642	₹89	
3.	₹6,582	₹6,582		0
4.	₹15,347	₹8,765		₹6,582
5.	₹21,011	₹34,211	₹13,200	

### Worksheet 3

- A. 1. profit 2. profit 3. loss  
4. loss 5. profit  
B. 1. ₹686 2. ₹1,345 3. ₹1,560  
4. ₹9,299 5. ₹27,439  
C. 1. ₹120 2. ₹1,600 3. ₹4,380  
4. ₹5,530 5. ₹48,322

## Worksheet 4

A.

	Cost price (CP)	Selling price (SP)	Profit	Loss
1.	₹398	₹524	₹126	
2.	₹4,421	₹5,074	₹653	
3.	₹16,111	₹16,111	₹0	
4.	₹26,232	₹23,621		₹2,611
5.	₹65,166	₹65,166		₹0

- b. 1. true 2. false 3. true  
4. true 5. true  
C. 1. c 2. e 3. b 4. a 5. d

## Teacher's Worksheets

### Worksheet 1

- A. 1. ₹107 2. ₹425 3. ₹160  
4. ₹790 5. ₹1215  
B. 1. 20% 2. 10% 3. 87.5%  
4. 8%  
C. 1. 20% 2. 20% 3. 25%  
4. 50%

### Worksheet 2

1. Stationery 2. MG Road, Bengaluru  
3. Cardboard, pen, notebook, colour box, pencil box  
4. 5 items 5. 2 boxes 6. ₹125  
7. 23/08/2013 8. ₹695

## Theme 6: Living Together

### Ch-10: Mapping Skills

## Main Coursebook

### I am ready

North	East	South	West
Delhi	Bihar	Andhra Pradesh	Maharashtra
Haryana	Jharkhand	Karnataka	Gujarat
Himachal Pradesh	Orissa	Kerala	Goa
Punjab	West Bengal	Tamil Nadu	
Rajasthan			
Uttar Pradesh			
Uttarakhand			
Chandigarh			

### Icebreaker: West, North and South

In-text Question: 1. yes 2. no

1. Try yourself  
2. a. south b. East c. Post office  
3. a. Telangana  
b. Arabian Sea and Indian Ocean  
c. East



## Mental Maths

1. a. 330 km                      b. 81 cm  
c. 520 km                        d. 27 cm

## I am a learner

- A. 1. d      2. c      3. b      4. a      5. c
- B. 1. A legend displays the meaning of the symbols, colors and styles used to represent geographic data on the map.  
2. Five benefits of a map:  
• People understand them independently of their language  
• Map contains much more information than words  
• Everyone can make a basic one  
• The understanding of them is improved by own knowledge and experience  
• Map can be folded easily and we can carry every where
- C. 1. arid and semi-arid  
2. tropical wet and dry  
3. Sub-tropical wet and dry  
4. Sub-tropical wet and dry  
5. Panji and Thiruvananthapuram
- D. 1. 1.8 cm; 2.7 km  
2. 1.4 cm; 2.1 km  
3. 3.7 cm; 5.55 km

**I am an artist:** Accept all relevant responses.

**My Secret Journal:** Accept all relevant responses.

**I am a doer:** 15 km;

When an appliance is on standby, it still consumes power. This is why we should turn off the switch of your TV, desktop, phone charger, and even your microwave when it isn't being used.

## I am an all-rounder

- A. **English:**
1. A map is a visual representation of places on a flat surface.
  2. Scale helps us represent the picture of anything.
- B. **Science:** Accept all relevant responses.
- C. **Social Studies:** Accept all relevant responses.

## Students' Worksheets

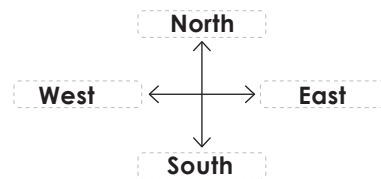
### Worksheet 1

- A. 1. Map keys use symbols, colours, lines and signs to represent various features on a map.

2. A map is a visual representation of places on a flat surface.
  3. Scale helps us represent the picture of anything, but in a smaller size, without affecting its shape.
  4. Direction helps in reading maps. The four main directions are North (N), South (S), East (E) and West (W).
  5. Online maps help to reach anywhere by keying in the address on it.
- B. 1. 3 km                      2. 6 km                      3. 8 km  
4. 12 km                     5. 36 km
- C. 1. false                      2. true                        3. true  
4. false                        5. true

### Worksheet 2

A.



- B. 1. hospital                      2. police station  
3. airport                        4. super market  
5. restaurant
- C. 1. false                        2. false                        3. false  
4. false                        5. true

### Worksheet 3

- A. 1. South  
2. Map keys use symbols, colours, lines and signs to represent various features on a map. They are usually located at the bottom left or right of a map.  
3. East, West, North and South. The angle between North and East is 90°.  
4. online maps  
5. scale
- B. 1. false                        2. false                        3. true  
4. true                         5. false
- C. 1. West                        2. East                        3. South  
4. North                        5. East

### Worksheet 4

- A. Accept all relevant responses.
- B. 1. top                        2. directions                3. map  
4. key                        5. scale
- C. 1. East                        2. West                        3. South  
4. North                        5. North

## Teacher's Worksheets

### Worksheet 1

- A. 3. Restaurant                      4. Railway Track

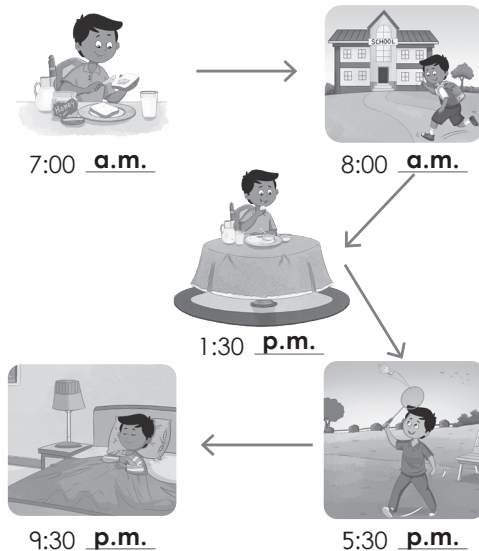
### Worksheet 2

- A. 1. b                      2. b  
 B. 1. SE                  2. E                      3. SW  
 4. S                      5. NE

## Theme 7: Keeping Us Strong Ch-11: Time and Temperature

### Main Coursebook

#### I am ready



#### Icebreaker: Accept all relevant responses.

- a. 180 min                      b. 720 min  
 c. 324 min                      d. 935 min
- a. 8 h 44 min                      b. 10 h 20 min  
 c. 12 h 25 min                      d. 23 h 20 min
- a. 900 sec                      b. 1560 sec  
 c. 760 sec                      d. 2710 sec
- a. 34 days                      b. 84 days  
 c. 39 days                      d. 88 days
- a. 6 years 3 months                      b. 26 years 10 months  
 c. 33 years 4 months                      d. 62 years 4 months
- 135 min
- 74 months

#### In-text Question: Accept all relevant responses.

- a. 14 h 20 min                      b. 13 h 40 min  
 c. 24 min 19 sec                      d. 24 h 25 min 35 sec
- a. 8 h 35 min                      b. 18 min 43 sec  
 c. 1 h 59 min 43 sec                      d. 5 h 44 min 55 sec
- a. 8 h 21 min                      b. Maria; 30 min 25 sec  
 c. 5 min
- a. 15 years 3 months                      b. 20 years 9 months  
 c. 28 years 10 months                      d. 26 years

- a. 5 years 9 months                      b. 2 years 9 months  
 c. 3 years 7 months                      d. 14 years 10 months
- a. 36 years                      b. 6 years 4 months
- a. 38 weeks 6 days                      b. 145 h 15 min 44 sec  
 c. 106 h 10 min                      d. 62 years 6 months
- a. 3 weeks 4 days  
 b. 4 weeks 2 days 6 hours  
 c. 6 h 54 min                      d. 9 h 3 min 48 sec
- a. 4:45 p.m.                      b. 11:53 a.m.  
 c. 5:00 p.m.                      d. 8:45 p.m.
- a. 4th July                      b. 16th October  
 c. 1 April                      d. 12 February

#### In-text Question

- Infrared thermometer
- mercury thermometer or Digital thermometer
- a. 55 °C                      b. 100 °C                      c. 2 °C
- a. extremely hot                      b. cold  
 c. very cold                      d. normal  
 e. very hot                      f. hot
- a. 68 °F                      b. 122 °F                      c. 167 °F                      d. 194 °F
- a. 65 °C                      b. 75 °C                      c. 35 °C                      d. 85 °C

#### Mental Maths

	Starting date	Duration	Finishing date
a.	9 November	50 Days	29 December
b.	6 June	17 days	23 June
c.	17 November	41 Days	28 December
d.	25 July	38 days	31 August
e.	5 April	35 days	9 May

#### I am a learner

1. c                      2. a                      3. a                      4. a                      5. a
1. c                      2. e                      3. a                      4. b                      5. d
1. 20 h 4 min                      2. 13 h  
 3. 26 h 24 min 24 sec
1. 7 h 22 min                      2. 19 h 24 min  
 3. 5 h 5 min 8 sec
1. 18 weeks 1 day 2 hours  
 2. 48 hours 40 minutes  
 3. 31 hours 2 minutes 0 seconds
1. 2 weeks 2 days 11.1 hours  
 2. 1 hour 32 minutes  
 3. 1 hour 21 minutes 6.6 seconds
1. 32 °F                      2. 50 °F                      3. 30 °C                      4. 21 °C
1. Manoj; 4 years 3 months 7 days  
 2. 2 h 10 min                      3. 1:50 p.m.  
 4. 6 years 11 months                      5. 2nd June

#### I am an artist: Accept all relevant responses.

#### My Secret Journal: Accept all relevant responses.

- I am a thinker: 1. 8:50                      2. 9:05

### I am an all-rounder

- A. **English:** near, carefully, quickly, completely  
B. **Science:** 98.6 °F or 37 °C  
C. **Social Studies:** 44 years

### Students' Worksheets

#### Worksheet 1

- A. 1. 60    2. 60    3. 24    4. 7    5. 12  
B. 1. 4    2. 11    3. 14    4. 16    5. 20  
C. 1. iii    2. v    3. iv    4. i    5. ii

#### Worksheet 2

- A. 1. false    2. true    3. true  
4. true    5. false  
B. 1. 21    2. 20    3. 4    4. 11    5. 84  
C. 1. v    2. iii    3. ii    4. i    5. iv

#### Worksheet 3

- A. 1. Thermometer    2. 100 °C  
3. 0 °C    4. Infrared thermometer  
5. 100 years  
B. 1. 45 days    2. 15 July    3. 30 days  
4. 24 October    5. 27 days  
C. 1. v    2. iv    3. iii    4. ii    5. i

#### Worksheet 4

- A. 1. iii    2. iv    3. ii    4. v    5. i  
B. 1. i    2. ii    3. ii    4. iii    5. iii  
C. 1. 3 hours    2. 2 hours    3. 2 hours  
4. 5 hours    5. 12 hours

### Teacher's Worksheets

#### Worksheet 1

- A. 1. 0515 hours    2. 0001 hours    3. 0000 hours  
4. 2230 hours    5. 0030 hours    6. 1245 hours  
7. 2005 hours    8. 0720 hours  
B. 1. 11 h 30 min    2. 11 years 1 month  
C. 1. 2 h 10 min 22 sec  
2. 4 h 59 min 30 sec  
D. 1. 60 weeks 4 days  
2. 44 weeks 2 days 16 hours  
E. 1. 2 weeks 1 day  
2. 26 weeks 7 hours

#### Worksheet 2

- A. 1. 7:45    2. 9:20    3. 3:30  
4. 12:20  
B. 1. 14 days    2. 1st June    3. 31 days  
4. 16 December    5. 25 days

## Theme 8: From Satellite to Satellite

### Ch-12: Measurement

### Main Coursebook

#### I am ready:

- a. 7    b. 11    c. 15

#### Icebreaker: Accept all relevant responses.

1. kilometre    2. multiplication  
1. a. 5.623 m = 56,230 dm = 5,62,300 cm = 56,23,000 mm  
b. 8.65 km = 865 dam = 8,650 m = 86,500 cm  
c. 65,252 cm = 652.52 m = 6.5252 hm = 0.65252 km  
d. 15,202 mm = 15.202 m = 1.5202 dam = 0.015202 km  
2. a. 3.5 km    b. 0.476 km    c. 10.775 km  
d. 847.62 km    e. 0.564 m  
3. 2.5 km    4. 1.53 m  
5. a. 100    b. 50    c. 40    d. 20  
6. a. 4500600 dag    b. 4500600 g  
c. 45,00,600000 cg    d. 4,50,06,000000 mg  
7. a. 14.572 kg    b. 145.72 hg  
c. 14,57,200 cg    d. 1,45,72,000 mg  
8. a. 62,000 g    b. 350.24 g  
c. 3,52,14,000 g    d. 75,420 g  
9. 8,600 g    10. 25.050 kg

#### In-text Question

1. 0.001 L    2. Division  
11. a. 3,56,000 l    b. 18,240 l  
c. 346 l    d. 3467.83 l  
12. a. 7862.5 l    b. 786.25 dl  
c. 78.625 hl    d. 78,62,500 ml  
13. 15,000 ml    14. 200 l  
15. a. 110 m 95 cm    b. 359 km 60 m  
c. 291 kg 505 g    d. 149 l 980 ml  
16. a. 57 m 20 cm    b. 180 km 33 m  
c. 134 kg 370 g    d. 23 l 855 ml  
17. a. 12 l 151 ml    b. 89 km 50 m  
c. 83 kg 566 g    d. 41 kg 950 g  
e. 10 l 191 ml  
18. a. 6,482 m 63 cm    b. 1,006 l 950 ml  
c. 2,35 g 683 mg    d. 5,175 km 84 m  
19. a. 41 l 076 ml    b. 42 m 51 cm  
c. 35 g 35 mg    d. 20,810 cm  
20. a. 13.5 km    b. 985 g  
c. 2.5 m    d. 1,179 l 750 ml  
21. a. g    b. l    c. m  
22. a. iii    b. iii    c. ii    d. iii

### Mental Maths

- a. 13.225 ml      b. 4,005 mg      c. 14.7 m  
d. 34,100 g      e. 1,70,000 m

### I am a learner

- A. 1. a      2. a      3. d      4. c      5. a  
B. 1. 4152 cm      2. 12 L 54 ml  
3. 36 kg 578 g      4. 145.20 m  
5. 1054 g  
C. 1. 403 m 5 cm      2. 114 km 304 m  
3. 545 kg 635 g      4. 840 L 898 mL  
D. 1. 290 kg 236 g      2. 274 kg 856 g  
3. 88 kg 190 g      4. 155 m 65 cm  
E. 1. 300 kg 432 g      2. 1,350 L 150 mL  
3. 1,575 km 625 m      4. 685 m 90 cm  
F. 1. 1 kg 002 g      2. 2 L 156 mL  
3. 2 km 117 m      4. 1 m 83 cm  
G. 1. 11 kg 500 g      2. 10 glasses  
3. 1110 kg 296 g      4. 6 kg 150 g  
5. 5406 km 900 m

**I am an artist:** Accept all relevant responses.

**My Secret Journal:** Accept all relevant responses.

### I am a doer

- a. 12 l; 3 l      b. 730 l      c. 1.5 l

### I am an all-rounder

- A. **English:** Jagan is at his shop. He has been sewing tablecloths since 10 o'clock. He sewed 1,200 cm of tablecloth in 2 hours. How many metres of tablecloths will he stitch in 6 hours?  
B. **Science:** 3,84,400,000 m  
C. **Social Studies:** 0.237 km

## Students' Worksheets

### Worksheet 1

- A. 1. false      2. true      3. true  
4. false      5. true  
B. 1. ii      2. iv      3. iv      4. i      5. i  
C. 1. 18 kg 100 g      2. 17 L 700 mL  
3. 27 km 900 m      4. 30 m 95 cm  
5. 44 kg 440 g

### Worksheet 2

- A. 1. true      2. false      3. false  
4. true      5. true  
B. 1. 6 cm 3 mm      2. 5345 m      3. 36,500  
4. B.090 km      5. 10.590 g  
C. 1. 4.897 kg      2. 27.727 L      3. 39.58 m  
4. 7.72 km      5. 17.498 L

### Worksheet 3

- A. 1. time      2. 100      3. 10,00,000  
4. multiply      5. divide  
B. 1. 6,000 mg      2. 250 g      3. 50,500 mL  
4. 200 mL      5. 8.555 L  
C. 1. c      2. b      3. c      4. c      5. b

### Worksheet 4

- A. 1. c      2. e      3. d      4. a      5. b  
B. 1. 48.79 g      2. 16A.680 kg  
3. 8C.962 mL      4. 12C.74 m  
5. 192 m 62 cm  
C. 1. 252 km      2. 455.4 m      3. 45251 cm  
4. 35247.5 ml      5. 12541 kg

## Teacher's Worksheets

### Worksheet 1

A.

	measurement	in bigger units	in smaller units
1.	9 m 40 cm	9.40 m	940 cm
2.	<b>8 kg 900 g</b>	8.900 kg	<b>8900 g</b>
3.	<b>75 cl</b>	<b>0.750 l</b>	750 ml
4.	5 L 426 ml	<b>5.426 l</b>	<b>5426 ml</b>
5.	4 m 23 cm	<b>4.23 cm</b>	<b>423 cm</b>
6.	<b>2 l 825 ml</b>	2.825 L	<b>2825 ml</b>
7.	<b>5 kg 56 g</b>	<b>5.056 kg</b>	5056 g
8.	23 kg 120 g	<b>23.120 kg</b>	23120 g

- B. 1. 286 m 88 cm      2. 430 kg 95 g  
C. 1. 3 l 049 ml      2. 138 m 51 cm  
D. 1. a. 80.1 decilitres      b. 801 centilitres  
c. 8010 millilitres  
2. a. 4080 hectograms  
b. 40800 decagram      c. 408000 grams

### Worksheet 2

- A. 1. b      2. b      3. a  
4. a      5. a  
B. 1. 13.575 km      2. 2 l 016 ml      3. ₹1,093.75  
4. 9 l 1 ml

## Theme 8: From Satellite to Satellite Ch-13: Perimeter, Area and Volume

## Main Coursebook

### I am ready

- a. 120 cm      b. 80 cm      c. 35 cm

**Icebreaker:** Accept all relevant responses.

### In-text Question

1. 20 cm      2. 20 cm  
1. a. 22 cm      b. 60 cm      c. 17.6 cm  
d. 75 cm

2. a. 10 cm      b. 7 cm      c. 45 cm  
3. 35 cm                      4. 25 cm

### In-text Question

1. yes                                      2. no  
5. a. 15 sq. cm                      b. 135 sq. cm  
    c. 1,050 sq. cm                      d. 188.65 sq. m  
6. a. 625 sq. cm                      b. 112.36 sq. cm  
    c. 129.85 sq. m                      d. 1,056.25 sq. m  
7. a. 97,500 sq. m; ₹341,250  
    b. ₹5,80,890                      c. square of side 8  
    d. 5 m  
8. a. 2 sq. cm      b. 4.5 sq. cm      c. 9 sq. cm  
9. a. 187.5 sq. cm                      b. 32.5 sq. cm  
    c. 103.75 sq. cm  
10. a. 34.375 sq. cm  
11. a. 14 sq. unit                      b. 12 sq. unit  
    c. 9 sq. unit                      d. 13 sq. unit  
    e. 13 sq. unit                      f. 17 sq. unit  
12. a. 141 sq. cm                      b. 440 sq. cm  
    c. 24 sq. m                      d. 112 sq. cm  
    e. 100 sq. cm                      f. 82 sq. cm

### In-text Question

1. Volume indicates the total amount of space covered by an object. Capacity refers to the ability of something to hold, absorb or receive by an object.  
2. 1 cu. km  
13. a. 12; 12 cu. cm                      b. 21; 21 cu. cm  
    c. 9; 9 cu. cm  
14. a. 576 cu. cm                      b. 2500 cu. cm  
    c. 1,601.25 cu. cm                      d. 3,095.75 cu. cm  
15. a. 3,375 cu. cm                      b. 8,000 cu. cm  
    c. 28,094.464 cu. cm                      d. 238.328 cu. m  
16. a. 60,000 cu. cm                      b. 640 cu. cm  
    c. 12,50,000 cu. cm                      d. 64

### Mental Maths

- a. 120 cu. cm                      b. 960 cu. cm  
c. 3,750 cu. m                      d. 210 cu. m  
e. 30,000 cu. cm

### I am a learner

- A. 1. d      2. b      3. c      4. a      5. d  
B. 1. Perimeter = 28 cm; Area = 48 sq. cm  
    2. Perimeter = 14 m; Area = 10 sq. m  
    3. Perimeter = 440 cm; Area = 12,000 sq. cm  
    4. Perimeter = 520 cm; Area = 16,800 sq. cm  
    5. Perimeter = 4,200 m; Area = 10,80,000 sq. m  
C. 1. 1,500 cu. cm                      2. 1,080 cu. cm  
    3. 7,500 cu. m                      4. 500 cu. m  
    5. 1,00,000 cu. cm

- D. 1. 3,375 cu. cm                      2. 6,434.856 cu. cm  
    3. 15,625 cu. m                      4. 27,000 cu. cm  
    5. 1,26,884.390625 cu. m  
E. 1. Perimeter = 3 km; Area = 0.5 sq. km  
    2. 6,000 bricks  
    3. 10,400 tiles                      4. ₹50; 14,000 sq. m  
    5. Perimeter = 320 cm; Area = 4,800 sq. cm

**I am an artist:** Accept all relevant responses.

**My Secret Journal:** Accept all relevant responses.

**I am a thinker:** 30 cubes

### I am an all-rounder

#### A. English:

1. True                                      2. True

B. **Science:** Perimeter = 100 m; Area = 600 sq. m

C. **Social Studies:** Area = 30,000 sq. m

## Students' Worksheets

### Worksheet 1

- A. 1. Side × Side                      2. Length × Breadth  
    3. Length × Breadth × Height  
    4. 4 × Side                      5. 2(Length+Breadth)  
B. 1. true                      2. false                      3. false  
    4. true                      5. false  
C. Accept all relevant responses.

### Worksheet 2

- A. 1.  $\frac{1}{2} \times \text{Base} \times \text{Height}$                       2. two  
    3. Side × Side × Side  
    4. Length × Breadth × Height                      5. 4  
B. 1. Length × Breadth  
    2. Length × Breadth × Height  
    3. Side × Side × Side  
    4. 2 (Length + Breadth)  
    5. Length × Breadth  
C. 1. 18 cm                      2. 16 cm                      3. 101 cm  
    4. 18 m                      5. 37 cm

### Worksheet 3

- A. 1. square                      2. 1 sq. cm  
    3. 4 cm                      4. perimeter  
    5. two  
B. 1. iv                      2. iii                      3. v                      4. ii                      5. i  
C. 1. 3                      2. 4                      3. 5                      4. 5                      5. 7

**Worksheet 4**

- A. 1. 6                                      2. Side  $\times$  Side  $\times$  Side  
 3.  $\frac{1}{2} \times \text{Base} \times \text{Height}$  4. 3  
 5. by multiply its length, breadth and height  
 B. 1. 9 sq. m      2. 6 sq. m      3. 6 sq. m  
 4. 4.5 sq. m      5. 13 sq. m  
 C. 1. 40 cm      2. 80 cm      3. 160 cm  
 4. 60 m      5. 48 m

**Teacher's Worksheets****Worksheet 1**

- A. 1. 32 cm      2. 96 km      3. 58 m  
 B. 1. 24 cm      2. 26 cm  
 C. 1. 750 cu. cm      2. 42,875 cu. cm  
 3. 19,080 cu. cm

**Worksheet 2**

- A. 1. 4,096 sq. cm      2. 10,404 sq. cm  
 B. 1. 70 sq units      2. 88 sq. units  
 C. 1. 180 cu. m      2. 2700 cu. Cm

**Theme 9: From Signs to Signals**  
**Ch-14: Data Handling****Main Coursebook****I am ready:** Try yourself

- a. Maths    b. 64    c. Science    d. 37

**Icebreaker:** 184 mangoes

1. Try yourself  
 2. a. black    b. 25    c. 105    d. pink  
 3. Try yourself  
 4. a. Music                                      b. Poetry recitation  
     c. Poetry recitation  
 5. Try yourself  
 6. a. 200      b. 250      c. Sunday  
     d. Wednesday and Friday      e. 1,500

**Mental Maths**

- a. Sheetal      b. Asifa      c. 200  
 d. 600      e. 5

**I am a learner**

- A. 1. b      2. d      3. a      4. c      5. a  
 B. Try yourself  
 C. Try yourself  
 D. a. VIII      b. 45      c. 145  
     d. III, IV, VI      e. V  
 E. a. Tuesday      b. 40  
     c. Friday      d. 50  
 F. Try yourself

**I am a doer:** Try yourself**I am an all-rounder****A. English:**

1. Jessica scored the highest marks among the four.  
 2. Ganesh's marks is lesser than Tina's and Jessica's.

**B. Science:** Try yourself**C. Social Studies:** Try yourself**Students' Worksheets****Worksheets 1**

- A. 3  
 B. 1. 20      2. 35      3. 30      4. 50      5. 65

Favourite sports	Number of students	Fraction
Cricket	50	$\frac{1}{2}$
Football	25	$\frac{1}{4}$
Basketball	25	$\frac{1}{4}$

**Worksheet 2**

- A. 5                                      B. 4                                      C. Try yourself

**Worksheet 3**

- A. 2                                      B. 1                                      C. 1

**Worksheet 4**

- A. 5                                      B. 3                                      C. Try yourself

**Teacher's Worksheets****Worksheet 1**

1. August                                      2. 1000 visitors  
 3. Accept all relevant responses  
 4. 800 visitors  
 5. ascending to descending  
 6. Accept all relevant responses

**Worksheet 2**

1. Blue                                      2. 35 students  
 3. 15 students                                      4. 15 students

## Enrichment Activities

- A. 1. on            2. Right            3. left  
4. Try yourself
- B. 1. 2:45    2. 7:40    3. 8:30    4. 3:25

C. 1.



2.



- D. 1. 10,000 ml    2. 20 kg    3. 500 cm  
4. 50,000 g    5. 200 ml    6. 15 cm
- E. Accept all relevant responses

## Revision Worksheet

- A. 1. 855 minutes            2. 3 hours 53 minutes  
3. 1228 seconds            4. 58 days  
5. 13 years
- B. 1. 594 m 60 cm            2. 21470 ml  
3. 187.50 kg            4. 1140 m  
5. 30 m            6. 7 km
- C. Try yourself
- D. 1. 45 °C            2. 38.3 °C
- E. 1. 42 km 600 m            2. 455 l 065 ml  
3. 130 kg 140 g            4. 1 m 10 cm
- F. 1. 225 sq. cm            2. 2600 cm  
3. 64 cu. cm            4. 77,000 cu. cm