

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

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

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

- $29,27,22,415 > 4,92,34,240 > 3,28,61,237 > 23,44,567$
 - $24,21,31,323 > 21,19,23,524 > 5,23,33,642 > 5,21,31,202$
- 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

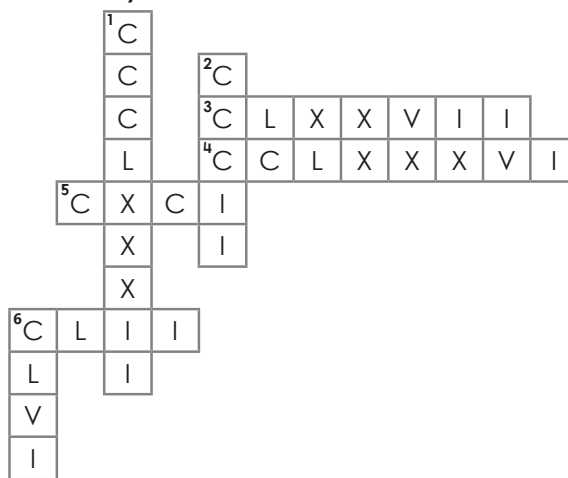
- A. 1. > 2. > 3. < 4. >
 B. 1. 150 2. 120 3. 130
 C. 1. 8600 2. 9400 3. 3200 4. 12,700
 D. 1. 9000 2. 29,000 3. 66,000 4. 5,13,000

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 | ✓ | ✓ |
| 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. 2×31 b. 7×13
c. $2 \times 2 \times 3 \times 3 \times 3$ d. $2 \times 2 \times 2 \times 2 \times 3 \times 3$
e. 13×13
8. a. $2 \times 2 \times 2 \times 2 \times 3$ b. $3 \times 3 \times 7$
c. 3×29 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. false 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. $2 \times 2 \times 2 \times 3$ $4 \times 2 \times 3$ $2 \times 2 \times 6$
 4×6 8×3 12×2
 2. $2 \times 3 \times 5$ 6×5 2×15
 10×3
 3. 7×5 5×7
 4. $3 \times 3 \times 5$ 9×5 3×15
 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 | - | - |

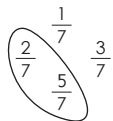
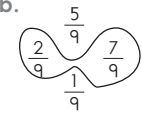
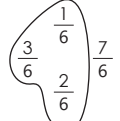
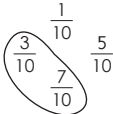
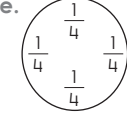
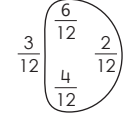
- C. 1. 5 2. 36

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. false 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

| A. | | Decimal | Fractional |
|----|--------|---|------------|
| 1. | 0.4 | $\frac{4}{100}$ | 0 |
| 2. | 8.92 | $\frac{9}{10} + \frac{2}{100}$ | 8 |
| 3. | 16.032 | $0 + \frac{3}{100} + \frac{2}{1000}$ | 10 + 6 |
| 4. | 0.552 | $\frac{5}{10} + \frac{5}{100} + \frac{2}{1000}$ | 0 |
| 5. | 6.7 | $\frac{7}{10}$ | 6 |

- 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

ENRICHMENT ACTIVITIES

- A. 1. 9876543 2. 1023456
 3. $9000000 + 800000 + 70000 + 6000 + 500 + 40 + 3$; $1000000 + 000000 + 20000 + 3000 + 400 + 50 + 6$
 4. $9876543 + 1023456 = 10899999$
 5. $9876543 \times 1023456 = 10108207192608$
 B. 1. 12, 24, 36, 48, ... 2. 12, 24, 36, 48, ...
 3. 12 4. In the centre
 C. 1. ii. b 2. iv. c
 3. i. d 4. iii. a

REVISION WORKSHEET

- A. 1. **Ascending order:** 7,58,739; 8,65,472; 20,87,650; 27,64,887; 47,89,587
Descending order: 47,89,587; 27,64,887; 20,87,650; 8,65,472; 7,58,739
 2. **Ascending order:** 3,54,837; 4,74,578; 35,10,384; 38,63,485; 65,45,875
Descending order: 65,45,875; 38,63,485; 35,10,384; 4,74,578; 3,54,837

3. **Ascending order:** 76,507; 1,01,238; 3,75,898; 87,59,832; 94,23,219
Descending order: 94,23,219; 87,59,832; 3,75,898; 1,01,238; 76,507
 4. **Ascending order:** 5,670; 34,567; 51,804; 4,36,840; 15,02,522
Descending order: 15,02,522; 4,36,840; 51,804; 34,567; 5,670
 5. **Ascending order:** 1,52,653; 4,72,925; 5,45,089; 25,07,848; 57,53,080
Descending order: 57,53,080; 25,07,848; 5,45,089; 4,72,925; 1,52,653
 B. 1. 68 2. 92 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

Answers

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 |
|------------------|----------|
| $\frac{15}{2}$ | 750 |
| $\frac{1}{4}$ | 25% |
| $\frac{36}{180}$ | 20% |

| Decimal | Per cent |
|---------|----------|
| 0.56 | 56 |
| 0.784 | 78.4% |
| 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%
- A. 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. a. 60° b. 90° c. 120°
d. 180° e. 30°
6. Try yourself
7. a. Intersecting lines b. Perpendicular lines
c. Parallel lines
8. diameter: AB; radius: OA, OB, OC; chord: AB, DE; circumference: ACBDE; centre: O; arc: ED, AC, AB, BC

Mental Maths

1. A 3 K 3 M 3 N 2 Z 2
2. H 4 L 1 T 2 F 4 I 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. 1. 45° 2. 60° 3. 120°
4. 150° 5. 180°

I am a thinker

1. right angle
2. a. Straight angle b. Right angle
c. Obtuse angle d. Acute angle

I am an all-rounder

- A. **English** – 1. What 2. Which
- B. **Science** – river
- C. **Social Studies** – H and 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. Arms- OA, OB; Vertex- Answer may vary
2. Arms- QP, QR; Vertex- Answer may vary
3. Arms- LM, MN; Vertex- Answer may vary
4. Arms- ST, SR; Vertex- Answer may vary
5. Arms- OM, ON; Vertex- Answer may vary

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. true 5. true
- C. 1. 56° 2. 89° 3. 102°
4. 136° 5. 170°

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

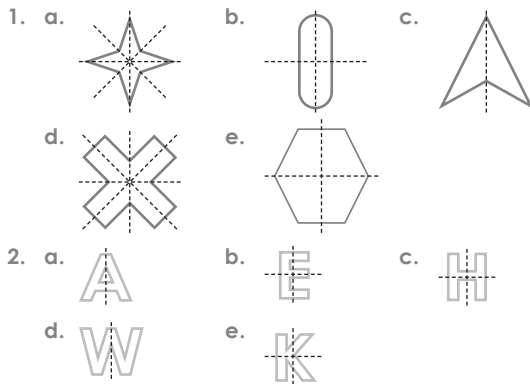
Theme 5: Living Across Ages

Ch-8: Symmetry, Patterns and Nets

Main Coursebook

I am ready: Try yourself

Icebreaker: Rectangle, square, triangle



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. 12222
 c. 57 d. 23,440

In-text Question

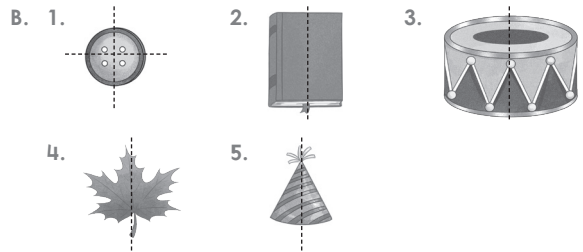
1. 6 2. Half turn
 5. Try yourself
 6. a. Front, side, top b. Top, front, side
 c. Top, front, side d. Front, side, top

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. 2, 4
 B. 5
 C. Try yourself

Worksheet 3

- A. Regular polygons: 1, 2, 5
 Irregular polygon: 3, 4
- B. 1. 3:15; 3:45
- 2.
3. 123454321; 12345654321
4. 25; 36
- 5.
- 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

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 |
| Total | | | ₹1,910 |

₹90

10. a.

| ITEM | QUANTITY | RATE (IN ₹) | AMOUNT |
|--------------|--------------------|-------------|--------------|
| Oranges | 2 kg | ₹120 | ₹240 |
| Grapes | 2 $\frac{1}{2}$ kg | ₹150 | ₹375 |
| Bananas | 5 dozen | ₹60 | ₹300 |
| Watermelons | 8 | ₹45 | ₹360 |
| Total | | | ₹1275 |

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 |
| Total | | | ₹785 |

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 | ₹250 |
| Total | | | ₹949 |

b.

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

c.

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

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.

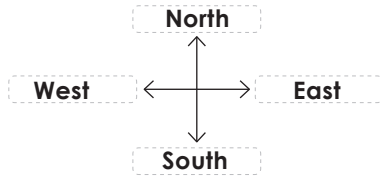
Students' Worksheets

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

ENRICHMENT ACTIVITIES

- A. Try yourself
 B. Try yourself
 C. Try yourself

REVISION WORKSHEET

A.

| Fraction | Decimal | Per cent |
|-------------------|---------|----------|
| $\frac{5}{100}$ | 0.05 | 5% |
| $\frac{95}{100}$ | 0.95 | 95% |
| $\frac{100}{100}$ | 1.0 | 100% |
| $\frac{78}{100}$ | 0.78 | 78% |
| $\frac{117}{100}$ | 1.17 | 117% |

- B. 1. ₹3220237 2. Profit of 25%
- C. 1. iii 2. iv 3. ii 4. i
- D. Try yourself
- E. 1. Profit of ₹197 2. Loss of ₹248
 3. Profit of ₹822 4. Profit of ₹335.10

F.

| ITEM | QUANTITY (QTY IN PACKET) | RATE (IN ₹) | AMOUNT (QTY × RATE) |
|--------------|--------------------------|-------------|---------------------|
| Bread | 5 | 40 | ₹200 |
| Milk | 6 | 52 | ₹312 |
| Biscuit | 8 | 12.50 | ₹100 |
| Muffins | 7 | 25.50 | ₹178.50 |
| Total | | | ₹790.50 |

Amount returned = ₹1209.50

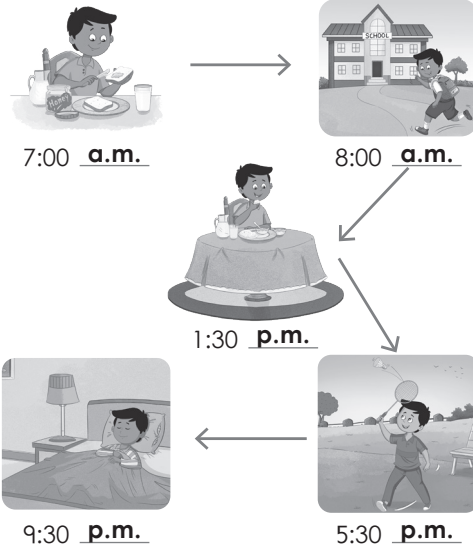
- G. 1. 3 cm 2. 4.1 cm 3. 7 cm
 4. 10.4 cm
- H. 1. 26.6 cm 2. 53.60 cm 3. 87 cm
 4. 158.8 cm
- I. 1. Obtuse 2. Acute 3. Right angle

Answers

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

- English:** near, carefully, quickly, completely
- Science:** 98.6 °F or 37 °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. $5,623 \text{ m} = 56,230 \text{ dm} = 5,62,300 \text{ cm} = 56,23,000 \text{ mm}$
b. $8.65 \text{ km} = 865 \text{ dam} = 8,650 \text{ m} = 86,500 \text{ cm}$
c. $65,252 \text{ cm} = 652.52 \text{ m} = 6.5252 \text{ hm} = 0.65252 \text{ km}$
d. $15,202 \text{ mm} = 15.202 \text{ m} = 1.5202 \text{ dam} = 0.015202 \text{ km}$
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. 8.090 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. | 8 kg 900 g | 8.900 kg | 8900 g |
| 3. | 75 cl | 0.750 l | 750 ml |
| 4. | 5 L 426 ml | 5.426 l | 5426 ml |
| 5. | 4 m 23 cm | 4.23 cm | 423 cm |
| 6. | 2 l 825 ml | 2.825 L | 2825 ml |
| 7. | 5 kg 56 g | 5.056 kg | 5056 g |
| 8. | 23 kg 120 g | 23.120 kg | 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

- 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.
- 1 cu. km
- a. 12; 12 cu. cm b. 21; 21 cu. cm
 c. 9; 9 cu. cm
- a. 576 cu. cm b. 2500 cu. cm
 c. 1,601.25 cu. cm d. 3,095.75 cu. cm
- a. 3,375 cu. cm b. 8,000 cu. cm
 c. 28,094.464 cu. cm d. 238.328 cu. m
- 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 × Side × 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

- Try yourself
- a. black b. 25 c. 105 d. pink
- Try yourself
- a. Music b. Poetry recitation
c. Poetry recitation
- Try yourself
- 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:

- Jessica scored the highest marks among the four.
- 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

- August 2. 1000 visitors
- Accept all relevant responses
- 800 visitors
- ascending to descending
- Accept all relevant responses

Worksheet 2

- Blue 2. 35 students
- 15 students 4. 15 students

Enrichment Activities

Try yourself

Revision Worksheet

- A. 1. 855 min 2. 3 h 32 min
3. 1228 seconds 4. 58 days
5. 12 years
B. 1. 594 m 60 cm 2. 6 l 170 ml
3. ₹187.50 4. 4560 m
5. 30 m 6. 729 cm³

C.

| Favourite dessert | Number of students |
|-------------------|--------------------|
| Choco lava cake | |
| Waffle | |
| Ice cream | |
| Apple pie | |
| Brownie | |

represent 5 students