

Answers

Theme 1: What Makes Our Land Lesson 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 CXCIV ✗

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	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

In-text Question

- No
- No

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

16. a. XI b. LXXVIII c. CXLVI
 d. CCVII e. CCCXLV f. 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 ≈ 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. 6,000,705 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

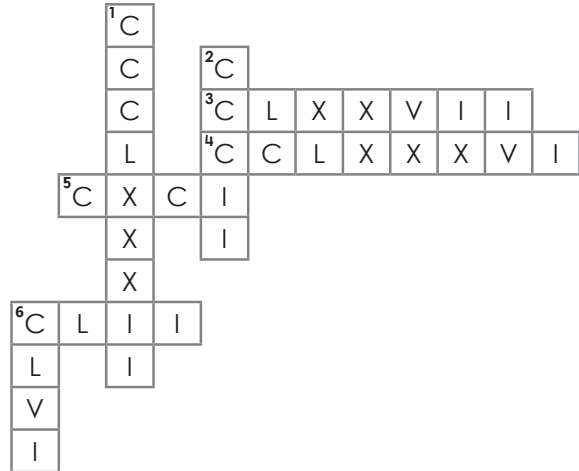
- A. 1. > 2. > 3. < 4. >
- B. 1. 150 2. 120 3. 130
- C. 1. 8600 2. 9400 3. 3200 4. 12,700
- D. 1. 9000 2. 29,000 3. 66,000 4. 5,13,000

Answers

Theme 1: What Makes Our Land Lesson 2: Operations with Large Numbers

Main Coursebook

I am ready



Icebreaker: $187 \div 2$

- 38,56,535
 - 61,82,135
 - 77,29,572
- 64,45,221
 - 47,12,551
 - 81,90,719
- Sum – 1,09,99,999
Difference – 89,99,999

In-text Question

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

In-text Question

- 750
- 175
- 10
 - 82
 - 292
 - 0

Mental Maths

- >
- =
- <
- <
- <
- >

I am a learner

- b
 - b
 - a
 - b
 - d
- False
 - False
 - True
 - False
 - False

- 1,65,53,779
 - 7,61,06,356
 - 6,82,087
 - 92,52,181
 - 9,79,75,455
 - 2,12,040
- 29,72,88,324
 - 12,18,76,887
 - 25,66,63,890
- Q = 2,30,912; R = 15
 - Q = 7,69,171; R = 81
 - Q = 1,20,448; R = 202
- 4,35,28,002 females
 - 6,79,41,205
 - 7,52,50,116
 - 7,486
 - 5,47,259
- 21
 - 11
 - 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

- English** –
 - Subject – Naveen; Object - tables.
 - Subject - I; Object - to solve multiplication word problems.
- Science** – 2,26,317 cartons
- Social Studies** – 1,152 hours

Students' Worksheets

Worksheet 1

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

Worksheet 2

- subtrahend
 - successor
 - multiplier
 - Division
 - predecessor
- 53,67,86,386
 - 7,54,81,568
 - 6,69,67,092
 - 88,61,80,767
 - 44,45,29,213
- True
 - False
 - False
 - False
 - False

Worksheet 3

- 0
 - 1
 - 13,77,895
 - 1
 - 81,49,22,897
- 45,67,98,033
 - 42,22,66,095
 - 94,12,501
 - 22,34,25,332
 - 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 = 58	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

Answers

Theme 2: What Helps Us Survive Lesson 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

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	✓
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. false 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. 16, 32, 48, 64, 80 4. 24, 48, 72, 96, 120
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. 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	-	-

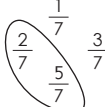
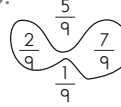
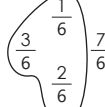
- C. 1. 5 2. 36

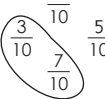
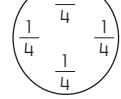
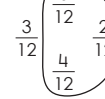
Answers

Theme 3: Different Yet Alike Lesson 4: Fractions

Main Coursebook

I am ready

a.  b.  c. 

d.  e.  f. 

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

In-text Question

- No
- Yes
- b. 1 c. 6 d. 2
- a. Yes b. No c. Yes d. Yes
- a. $\frac{5}{6}$ b. $\frac{1}{3}$ c. $\frac{8}{5}$ d. $\frac{11}{13}$ e. $\frac{28}{65}$
- a. $\frac{2}{7}$ b. $\frac{3}{5}$ c. $\frac{1}{3}$ d. $\frac{5}{2}$ e. $\frac{2}{5}$
- a. < b. > c. < d. <
- 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. $\frac{6}{10} < \frac{4}{6} < \frac{4}{5} < \frac{6}{7}$
- 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. $\frac{14}{14} < \frac{11}{14} < \frac{17}{28} < \frac{4}{7}$
- a. $\frac{11}{9}$ b. $\frac{67}{40}$ c. $\frac{83}{12}$ d. $\frac{91}{18}$
- a. $\frac{3}{5}$ km b. $\frac{9}{10}$ c. $4\frac{23}{54}$ km
- a. $\frac{11}{19}$ b. $\frac{1}{42}$ c. $\frac{7}{3}$ d. $8\frac{74}{80}$
- a. $\frac{31}{35}$ b. $14\frac{1}{4}$ kg
c. $\frac{6}{11}$ of the cookies
- a. $\frac{2}{3}$ b. $\frac{3}{2}$ c. $\frac{7}{2}$ d. $\frac{1}{2}$
e. $\frac{72}{25}$
- a. $\frac{32}{7}$ m b. ₹630 c. $107\frac{1}{2}$

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

In-text Question

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

Mental Maths

- a. $\frac{30}{45}$ b. $\frac{72}{108}$ c. $\frac{54}{81}$ d. $\frac{90}{135}$
- 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. $\frac{1}{40}$ 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.

2. 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' = $\frac{4}{25}$ Fraction of 'C' = $\frac{4}{25}$

$\frac{16}{625}; 1$

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. $\frac{18}{5}, \frac{18}{7}, \frac{18}{13}, \frac{18}{17}$

Answers

Theme 3: Different Yet Alike Lesson 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
2. a. 3.6 3.7 3.8
 b. 15.11 15.12 15.13
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 kg
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; 2; $\frac{2}{9}$; 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 5. 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. 13

- B. 1. Sixty and thirty-five hundredths

2. $\frac{6035}{100}$

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	$0 + \frac{4}{100}$
2.	8.92	$8 + \frac{9}{10} + \frac{2}{100}$
3.	16.032	$10 + 6 + 0 + \frac{3}{100} + \frac{2}{1000}$
4.	0.552	$0 + \frac{5}{10} + \frac{5}{100} + \frac{2}{1000}$
5.	6.7	$0 + \frac{7}{10}$

- 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. ₹1,306.305

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

- 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% 5. 5% 6. 35%
- C. 1. 60% 2. 80% 3. 2,782 girls

Answers

Theme 4: Living With Changes

Lesson 7: Geometry

Main Coursebook

I am ready

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

Icebreaker: Line

- a. OQ, OR, OS, OP, OU, OT
b. RT
c. OQ, OR, OS, OP, OU, OT, RT
- Try yourself 3. Try yourself
- a. open curve b. open curve
c. closed curve d. closed curve
e. open curve

In-text Question

- No 2. Yes
- a. 50° b. 90° c. 130°
d. 180° e. 30°
- Try yourself
- a. Intersecting lines b. Perpendicular lines
c. Parallel lines
- diameter: AB; radius: OA, OB, OC; chord: AB, DE; circumference: ACBDE; centre: O; arc: AEO, ACB

Mental Maths

- A 3 K 3 M 3 N 2 Z 2
- H 4 L 1 T 2 F 4 I 0
- 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

- right angle
- a. Straight angle b. Straight 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- O
2. Arms- QP, QR; Vertex- Q
3. Arms- ML, MN; Vertex- M
4. Arms- ST, SR; Vertex- S
5. Arms- OM, ON; Vertex- O

Worksheet 2

- A. 1. e 2. d 3. a 4. b 5. c
B. 1. pentagon 2. decagon 3. triangle
4. octagon 5. quadrilateral
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. 88° 3. 102°
4. 136° 5. 169°

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

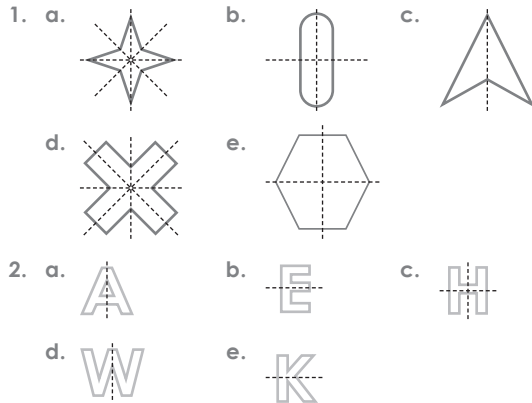
Answers

Theme 5: Living Across Ages Lesson 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. 122222
c. 57 d. 23,440

In-text Question

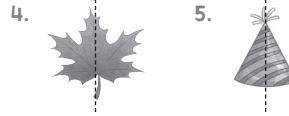
1. 6 2. Half turn
5. Try yourself
6. a. Front, side, top b. Top, front, side
c. Top, front, side d. Front, side, top

Mental Maths

1. a. 6 b. triangle and circle
c. four d. I, X, O

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, 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. 88,53,087
 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.
 2. 600 crayons are placed equally in 25 boxes. Find the number of crayons in each box.
 3. One speaker costs ₹3,599. Find the cost of 18 such speakers.
 4. The population of a town is 4,56,600. Out of these, 1,93,678 are females. Find the number of males.
- i. multiply (\times) a. 2,62,922
 ii. add (+) b. 3,935
 iii. subtract ($-$) c. 24
 iv. divide (\div) d. 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 - 1,52,653; 4,72,925; 5,45,089; 25,07,848; 57,53,080
 Descending - 57,53,080; 25,07,848; 1,52,653; 5,45,089; 4,72,925

- 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

1. 378 2. 304 3. 450
 4. 5525 5. 3318 6. 8,352
 7. 1,400 8. 5,886 9. 3,428
 10. 1,340 11. 1,134 12. 372
 13. 29,380 14. 45,780 15. 65,512
 16. 166,848 17. 5,886 18. 3,428

Answers

Theme 6: Living Together Lesson 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	<u>₹550</u>
Breads	2	40	<u>₹80</u>
Buns	5	35	<u>₹175</u>
Pastries	10	62.50	<u>₹625</u>
Cup cakes	20	24	<u>₹480</u>
Total			₹1,910

₹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
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	₹50
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
Skirts	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 and pencil box
 4. 5 items 5. 2 boxes 6. ₹125
 7. 23/08/2013 8. ₹695

Answers

Theme 6: Living Together Lesson 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 cm
2. 1.4 cm; 2.1 cm
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: 5 cm

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.

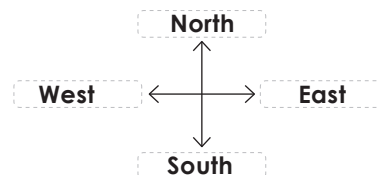
Students' Worksheets

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
- B. 1. 4.6 2. 8.6 3. North

Worksheet 2

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

A. Write each time in 24-hour clock.

1. 5:15 a.m. _____
2. 1:00 a.m. _____
3. 12:00 midnight _____
4. 10:30 p.m. _____
5. 12:30 a.m. _____
6. 12:45 p.m. _____
7. 8:05 p.m. _____
8. 7:20 a.m. _____

B. Find the sums.

1. 6 h 40 min + 4 h 50 min

2. 4 years 6 months + 6 years 7 months

C. Find the difference.

1. 6 h 35 min 55 sec – 4 h 25 min 33 sec

2. 8 h 25 min 10 sec – 3 h 25 min 40 sec

D. Multiply.

1. 7 weeks 4 days by 8

2. 5 weeks 3 days 20 hours by 8

E. Divide.

1. 10 weeks 5 days by 5

2. 25 weeks 6 days 12 hours by 6

Teacher's Signature: _____

Remarks: _____

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. 31 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

Answers

Theme 8: From Satellite to Satellite

Lesson 12: Measurement

Main Coursebook

I am ready:

- a. 70 b. 110 c. 150

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. $65,252 \text{ cm} = 65.252 \text{ m} = 6.5252 \text{ hm} = 0.65252 \text{ km}$
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 m 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. 40,005 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 2. 161.680
3. 83.962 4. 123.74
5. 192; 62
- 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. 31049 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. 21016 ml 3. ₹1,093.75
4. 911 ml

Answers

Theme 8: From Satellite to Satellite Lesson 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 \times Side \times Side
 4. 2 (Length + Breadth)
 5. Length \times 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. $\frac{1}{2} \times$ Base \times 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. 11 cm 2. 12 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

Answers

Theme 9: From Signs to Signals Lesson 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

C.

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
- 1000 visitors
- Accept all relevant responses
- 800 visitors
- ascending to descending
- Accept all relevant responses

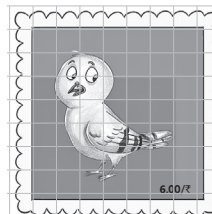
Worksheet 2

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. 2 l 470 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

G. 1. Basketball

2. Whole

3. i. $\frac{1}{8}$ or 5 students

ii. $\frac{1}{4}$ or 10 students

iii. $\frac{1}{8}$ or 5 students

iv. $\frac{1}{2}$ or 20 students