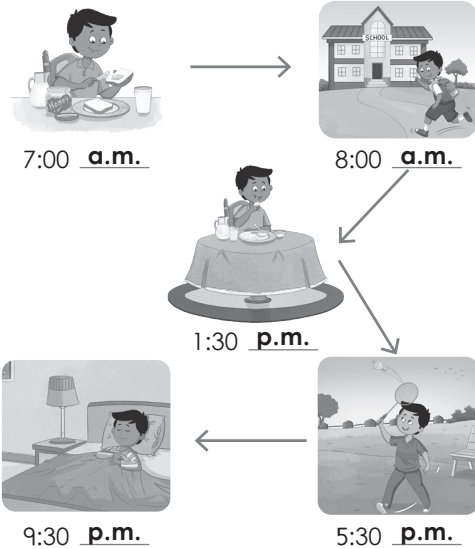


Answers

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

Main Coursebook

I am ready



Icebreaker: Accept all the 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
- a. 135 min
- a. 74 months

In-text Question: Accept all the 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 53 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 the relevant responses.

My Secret Journal: Accept all the 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. c 2. e 3. d 4. a 5. b

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. e 2. c 3. b 4. a 5. d

Worksheet 3

- A. 1. Thermometer 2. 100 °C
3. 0 °C 4. Infrared thermometer
5. 100 years
B. 1. 44 days 2. 15 July 3. 30 days
4. 24 October 5. 27 days
C. 1. c 2. d 3. b 4. e 5. a

Worksheet 4

- A. 1. c 2. d 3. b 4. e 5. a
B. 1. a 2. b 3. b 4. c 5. c
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. 0100 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. 4 weeks 2 days 6 hours

Worksheet 2

- A. 1. 7:45 2. 9:20 3. 3:30
4. 12:20
B. 1. 14 days 2. 31st May 3. 30 days
4. 16 August 5. 26 days

Theme 8: From Satellite to Satellite

Ch-12: Measurement

Main Coursebook

I am ready:

- a. 7 b. 11 c. 15

Icebreaker: Accept all the relevant responses.

In-text Question

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. 45006000 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. 2349 g 783 mg d. 5,175 km 840 m
19. a. 41 l 076 ml b. 42 m 51 cm
c. 35 g 35 mg d. 20 cm 90 mm
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 l 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 50 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 1556 ml
 3. 2 km 117 m 4. 1 m 8275 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 the relevant responses.

My Secret Journal: Accept all the 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. b 2. d 3. d 4. a 5. a
- 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. 2.090 km 5. 10.590 g
- C. 1. 4.897 kg 2. 27.727 3. 39.58
 4. 7.72 5. 17.498

Worksheet 3

- A. 1. time 2. 100 3. 10,00,000
 4. multiply 5. divide
- B. 1. 6,000 2. 250 3. 50,500
 4. 200 5. 8.555
- 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 m 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. 3 l 049 ml 2. 1 m 71 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 10 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 the 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. 191.835 sq. m

6. a. 625 sq. cm b. 112.36 sq. cm
c. 150.0625 sq. m d. 1,056.25 sq. m
7. a. 97,500 sq. m; ₹341,250
b. ₹5,80,890 c. rectangle
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 the relevant responses.

My Secret Journal: Accept all the 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. false 2. false 3. false
4. true 5. true
- C. Accept all the 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. 24 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. 9
- B. 1. d 2. c 3. e 4. b 5. a
- C. 1. 3 2. quadrilateral 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. 4 sq. m 3. 8 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 sq. cm 2. 12.5 sq. cm
C. 1. 750 cu. cm 2. 42,875 cu. cm
3. 19,080 cu. cm

Worksheet 2

- A. 1. 256 sq. cm 2. 650.25 sq. cm
B. 1. 70 sq units 2. 52 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 the relevant responses
- 800 visitors
- ascending to descending
- Accept all the relevant responses

Worksheet 2

- Blue 2. 45 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