

1. A ROLE MODEL – DR APJ ABDUL KALAM

ANSWERS

Warm Up

1. Rajendra Prasad
2. APJ Abdul Kalam
3. Pranab Kumar Mukherjee
4. Ram Nath Kovind

Read and Understand

- A.** 1. (c) 2. (b) 3. (a)
- D.** 1. The ring of the school bell seemed to welcome Deepak to school.
2. Deepak wanted to become a police officer.
3. All the children would be provided education, books and uniforms free of cost.
4. Dr APJ Abdul Kalam was born at Rameshwaram in Tamil Nadu.
5. After school, he earned money by distributing newspapers when he was studying in school.
6. His favourite subject in school was mathematics.
7. He studied aerospace engineering at the Madras Institute of Technology.
8. Rohini was deployed by SLV-III in July 1980.
9. IIM, Ahmedabad and IIM, Indore (Any one).
10. 2020: A Vision for the New Millennium, Ignited Minds, Wings of Fire and Mission India 2020. (Any two).
- C.** Do it yourself.
- D.** wind (UC), music (UC), chair (C), flour (UC), pencil (C)
- E.** 1. (f) 2. (d) 3. (a) 4. (b) 5. (c) 6. (e)
- F.** 2. butter + flies = butterflies 3. foot + ball = football 4. pass + port = passport
- G.** 1. favourite 2. scientist 3. aerospace 4. satellite
- H.** 1. up 2. far 3. rich 4. sad 5. light 6. good 7. exit 8. frowned
- J.** 1. The President of India lives in the Rashtrapati Bhawan.
2. The total area covered is 320 acres.
3. The road between Rashtrapati Bhawan and the India Gate is called Rajpath.
4. The huge square in front of the Rashtrapati Bhawan is called Vijay Chowk.
5. The Mughal Garden is open in February every year for the public.
6. Any reasonable answer is acceptable.
- L.** Fill in the blanks with the words in the following order: school; and; him; gave/made, him; card; that
- M.** Do it yourself.

2. BIRBAL'S CLEVERNESS

ANSWERS

Warm Up

1. TENALIRAMAN 2. GOPAL BHAR 3. MULLA NASRUDDIN

Read and Understand

- A. 1. (b) 2. (c) 3. (a)
- B. 1. robbed 2. stick 3. thief 4. amazed
- C. 1. The rich man suspected that one of his servants had committed the theft.
2. He told them that the thief's stick would grow one inch longer overnight.
3. The thief was caught because he cut his stick.
- D. 1. A 2. I 3. I 4. E 5. A
- E. 1. valuable 2. merchant 3. thief 4. guilty
- F. 1. (c) 2. (d) 3. (a) 4. (b)
- G. 1. Akbar. 2. Babar. 3. Jahangir.
- J. Do it yourself.
- K. Do it yourself.
- L. Do it yourself.

BETTY AT THE PARTY (POEM)

ANSWERS

Read and Understand

A. 1. (a) 2. (c) 3. (a)

B. 1. False 2. False 3. True 4. False

C. 1. Because she did not laugh.

2. She did not laugh because it was she who fell from the chair.

D. 1. (d) 2. (c) 3. (b) 4. (a)

3. A POUND OF BUTTER

ANSWERS

Warm Up

Butter, Cheese, Cream, Curd

Read and Understand

A. 1. (a) 2. (a)

B. 1. False 2. True 3. False

C. 1. Mr Brown's complaint was that Mr Jefferson was not giving him the correct weight of butter.

2. Mr Jefferson said he used to weigh his butter against Mr Brown's pound of bread.

3. Mr Brown was cheating Mr Jefferson.

D. 1. I will not do it now.

2. It is not hot today.

3. They were not reading books.

4. He is not my uncle.

E. 1. What 2. When 3. Who 4. Which

F. 1. pain; pen 2. rain 3. chain 4. lion 5. main 6. billion

G. 1. insecure 2. impure 3. infinite 4. impossible 5. incorrect 6. insensitive

H. 1. I stitch clothes. 2. I mend shoes. 3. I fly an aeroplane. 4. I grow food.

I. 1. carats 2. litres 3. kilograms 4. metres

L. Once a woodcutter was cutting trees in a forest. While cutting a tree, his axe fell into the river close by. The woodcutter was very sad. He began to cry. Suddenly, the River God appeared before him. He took out a gold axe and asked the woodcutter, "Is this your axe?" The woodcutter said, 'No'.

The River God then brought out another axe. It was a silver axe.

The River God asked him, "Is this your axe?" The woodcutter again said, "No".

The third time, River God brought out an iron axe.

He asked the woodcutter, "Is this your axe?"

This time woodcutter said, "Yes".

The River God was pleased with woodcutter's honesty. He gave him all the three axes as a reward.

M. Do it yourself.

THE SWING (POEM)

ANSWERS

Read and Understand

- A. 1. (a) 2. (b)
B. The child can see rivers, trees and cattle.
C. Slide, roundabout, seesaw.

PERIODIC TEST—1

- A. 1. (d) 2. (a) 3. (b) 4. (c) 5. (b)
B. 1. Electricity is used to light up our streets, offices and homes. Computers, televisions and washing machines and various other machines also work on electricity.
2. Electricity is produced by sunlight with the help of solar panels.
3. Electricity is produced by wind with the help of windmills.
4. Because it is produced from a resource that is limited in nature (that is, fossil fuel).
5. By switching off fans, lights and other appliances when not in use.
C. Do it yourself.
D. 1. pack 2. fleet
E. 1. (b) 2. (c) 3. (d) 4. (a)
F. 1. A 2. I 3. E 4. A
G. 1. Deepak wanted to become a police officer.
2. Abdul Kalam was elected President of India in 2002.
3. Birbal told the servants that the sticks were magic sticks. He further said that the stick held by the thief would grow one inch longer overnight.
4. Mr. Brown's complaint was that Mr. Jefferson had been cheating him by giving him butter of not the correct weight.
5. Mr. Brown was cheating Mr. Jefferson.

4. THE SKY IS FALLING

ANSWERS

Warm Up

1. Banyan
2. Neem
3. Peepal

Read and Understand

A. 1. (a) 2. (b)

B. 1. Chikoo 2. Simba

C. 1. Because a coconut fell down with a loud sound.

2. The laughed because Chikoo thought that the sky had fallen while only a fallen coconut had fallen.

D. 1. the 2. an 3. a 4. an 5. The

E. 1. sleeping 2. frightened 3. coconut

F. 1. RABBIT 2. COCONUT 3. JUNGLE 4. SOUND

G. 1. Excited 2. Scared 3. Proud 4. Lonely

H. 1. Roar 2. Hoot 3. Purr 4. Squeak

K. Do it yourself.

L. Do it yourself.

5. RIDING BACKWARDS

ANSWERS

Read and Understand

- A. 1. (b) 2. (a) 3. (c)
- B. 1. False 2. True 3. True 4. False
- C. 1. He was given the task of leading a group of children to school.
2. The people laughed on seeing Mulla Nasruddin riding backwards on a donkey and children following him.
3. He was riding backwards to keep an eye on the children. Moreover, he wanted to lead the children, too.
4. To mind his own business in future.

HOTS

D.

Positive	Comparative	Superlative
Cold	Colder	Coldest
Tall	Taller	Tallest
Kind	Kinder	Kindest
Small	Smaller	Smallest
Big	Bigger	Biggest

- E. 1. children 2. curiosity 3. quite 4. business
- F. 1. thief 2. sleep 3. leaf 4. seat 5. bread 6. grief
- G. 1. are 2. cafe 3. keen 4. inch
- H. 1. Akbar.
2. To make the line shorter without cutting or rubbing it.
3. He drew a longer line.
- K. 1. A man is cutting the branch of the tree.
2. The man is foolish because he is cutting that very branch on which he is sitting.
3. We should not cut trees.
4. Trees are our national wealth.
5. They are very useful.
- L. Do it yourself.

6. BIRD'S EYE

ANSWERS

Warm Up

1. (d) 2. (a) 3. (b) 4. (c)

Read and Understand

- A. 1. (c) 2. (a)
- B. 1. True 2. False 3. False 4. True
- C. 1. Yudhishthira, Bhima, Arjuna, Sahadeva and Nakula.
2. He asked the question, "What can you see?"
3. He did not allow them to shoot because they were not focused.
4. Because of his deep concentration.
- D. 1. me 2. us 3. She 4. you 5. It
- E. 1. music 2. slice 3. notice 4. picnic 5. traffic
- F. 1. PRINCE 2. ARROW 3. BRANCH 4. SKILL
- G. 1. *Mahabharata* 2. Ved Vyasa 3. *Bhagavad Gita*
- J. Do it yourself.
- K. Do it yourself.

MY SHADOW (POEM)

ANSWERS

Read and Understand

- A. 1. (c) 2. (a)
- B. 1. The poet says that the shadow is like him from heels up to head. This he says in the third line of the poem.
2. That it likes to grow—sometimes very tall but some times very little.
- C. 1. Dog 2. Bird 3. Horse

LIFE SKILLS—1

- A. 1. A ladle of love.
2. A glass of gratitude.
- B. Do it yourself.

PERIODIC TEST—2

- A. 1. (a) 2. (c) 3. (a) 4. (c) 5. (a)
- B. 1. cricketer 2. together in the evening 3. matches 4. Indian cricket team
5. complete dedication
- C. Do it yourself.
- D. 1. apples (C); basket (C)
2. sugar (UC); pot (C)
3. biscuits (C); plate (C)
4. juice (UC); breakfast (UC)
- E. 1. a 2. an 3. The 4. The, an
- F. 1. me 2. us
- G. 1. After school, he earned money by distributing newspapers when he was studying in school.
2. Because he had heard a loud sound. It was later discovered that the sound was produced by a coconut falling from the tree.
3. The task of leading a group of children to school.
4. In his defence, Mr. Jefferson said that he had weighed his pound of butter against Mr. Brown's loaf of bread. Therefore, if anyone was to be blamed, it was Mr. Brown.
5. He succeeded because of his focus and concentration.

GRAMMAR WORKSHEETS

Grammar Worksheet 1

- A. **Countable Nouns:** apple, car, table

Uncountable nouns: energy, music, oil

B. 1. bouquet 2. herd 3. pride 4. fleet 5. swarm 6. flock

- C.** 1. The girl is staying with her aunt.
2. The boy held his father's hand tightly.
3. The princess was happy to see the king.
4. The mare ran very fast.
5. Anil's grandfather is a kind man.
6. My aunt's daughter is a doctor.
7. The policewoman caught the robbers.

- D.** 1. neuter gender
2. masculine gender
3. common gender
4. neuter gender
5. feminine gender
6. masculine gender
7. neuter gender
8. feminine gender
9. masculine gender
10. neuter gender

Grammar Worksheet 2

A. 1. Imperative 2. Exclamatory 3. Assertive 4. Exclamatory

B. 1. Wow! 2. Hurrah! 3. Ouch! 4. Congratulations!

- C.** 1. What a good boy you are!
2. Will you please let me use your dictionary?
3. How dreadful was the accident?
4. Delhi, the capital of India, stands on the Yamuna.

Grammar Worksheet 3

- A.** 1. The first page of the book was not missing.
2. Nitin is not my best friend.
3. His mother is not ill.
4. Mohan was not at home.
5. He is not my uncle.
6. My uncle is not a doctor.
7. It is not raining.
8. She has not done her homework.
9. Rohan is not going to school.
10. Aruna is not a good dancer.
- B.** 1. Why is Gopal laughing so much?
2. Where has Garima kept the key?

3. When is the next match?
4. Why are you so late?
5. Could you please help me cross the road?
6. Did the courier come today?
7. Where are the children sitting?

- C. 1. Where do they live?
 2. When was Mahatma Gandhi born?
 3. What is a baby owl called?
 4. Who was the first man to go into space?
 5. Where has Rohan gone?

- D. 1. Who 2. What 3. Which 4. When 5. Where

Grammar Worksheet 4

- A. 1. An 2. A 3. A 4. An 5. A 6. An 7. An 8. A 9. An 10. An 11. A 12. An

- B. 1. a 2. An 3. The 4. an 5. a 6. The 7. The 8. An

- C. An, a, a, The, a

- D. 1. Mohan is a boy.
 2. The Ganga is a holy river.
 3. We saw an elephant at the circus.
 4. Delhi is a big city.
 5. The sun gives heat and light to the Earth.
 6. The Qutub Minar is in Delhi.

Grammar Worksheet 5

A.

thin	thinner	thinnest
big	bigger	biggest
bare	barer	barest
tall	taller	tallest
hot	hotter	hottest
strong	stronger	strongest
low	lower	lowest
soft	softer	softest

- B. 1. older 2. colder 3. tastiest 4. taller

- C. 1. (b) 2. (a) 3. (b) 4. (b) 5. (a) 6. (b) 7. (a) 8. (a) 9. (b) 10. (a)

Grammar Worksheet 6

- A. 1. It 2. They 3. She 4. You 5. Your 6. He 7. They 8. We 9. I 10. It
 11. She 12. He

- B. 1. they 2. he 3. she 4. She, it, she, it 5. He 6. They

- C. 1. It 2. She 3. They 4. He 5. It 6. They 7. She 8. it

1. NUMBERS (UP TO 4 DIGITS)

ANSWERS

LET US RECALL

A.

Numeral	Number Name	Hundreds, Tens and Ones					
126	One hundred and twenty six	1	Hundreds	2	Tens	6	Ones
257	Two hundred and fifty seven	2	Hundreds	5	Tens	7	Ones
352	Three hundred and fifty-two	3	Hundreds	5	Tens	2	Ones
574	Five hundred and seventy-four	5	Hundreds	7	Tens	4	Ones
767	Seven hundred and sixty seven	7	Hundreds	6	Tens	7	Ones

B.

What comes before	What comes in between	What comes after
<input type="text" value="682"/> , 683	467, <input type="text" value="468"/> , 469	589, <input type="text" value="590"/>
<input type="text" value="799"/> , 800	799, <input type="text" value="800"/> , 801	998, <input type="text" value="999"/>

What comes before and after?

, 500,

What comes before?

, , 702

What comes after?

199, ,

- C. 1. 6; 2; 4 2. 421
 D. 1. 500; 60; 4 2. 325
 E. 900 + 30 + 2
 F. 1. > 2. < 3. =
 G. 774, 439, 330, 240, 184
 H. 240, 373, 474, 683, 723

- I. 3, 4 and 8 1, 0 and 5

- 2, 7 and 8 0, 3 and 9

Greatest

Greatest

Greatest

Greatest

H	T	O
8	4	3

H	T	O
5	1	0

H	T	O
8	8	8

H	T	O
9	9	9

Smallest

Smallest

Smallest

Smallest

H	T	O
3	4	8

H	T	O
1	0	5

H	T	O
2	2	2

H	T	O
3	0	0

EXERCISE 1.1

- A. 1. 3 thousands, 3 hundreds, 9 tens and 7 ones
 2. 4 thousands, 6 hundreds, 4 tens and 1 ones
 3. 7 thousands, 1 hundreds, 0 tens and 3 ones
 4. 6 thousands, 0 hundreds, 7 tens and 8 ones

5. 9 thousands, 7 hundreds, 9 tens and 0 ones

B. 1. 6927 2. 5594 3. 4850 4. 7083 5. 2708

C. 1. $3 \times 1000 + 7 \times 100 + 6 \times 10 + 2$

2. $6 \times 1000 + 8 \times 100 + 4 \times 10 + 1$

3. $2 \times 1000 + 3 \times 100 + 0 \times 10 + 5$

4. $5 \times 1000 + 0 \times 100 + 8 \times 10 + 9$

5. $4 \times 1000 + 6 \times 100 + 1 \times 10 + 0$

D. 1. 7364 2. 5737 3. 2930 4. 7062 5. 4706

EXERCISE 1.2

A. 1. Three thousand six hundred seventy five

2. Four thousand four hundred nine

3. Five thousand two hundred fifty three

4. Six thousand four hundred six

5. Nine thousand seven hundred twelve

B. 1. 1323 2. 3831 3. 4608 4. 8809 5. 9305

EXERCISE 1.3

A. 1. 4527 2. 5936 3. 6658 4. 7291

B. 1. 8575 2. 9686 3. 1860 4. 2747

C. 1. 3475, 3476 2. 4237, 4238

D. 1. 5570, 5571 2. 6128, 6129

E. 1. 7187, 7188, 7189 2. 8250, 8251, 8252

F. 1. 9018, 9019, 9020 2. 3073, 3074, 3075

G. 1. 4200, 4201 2. 5687, 5688

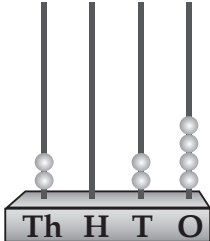
H. 1. 1358, 1359, 1360 2. 4530, 4531, 4532

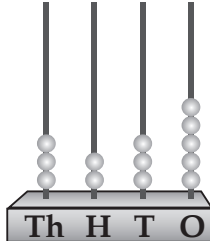
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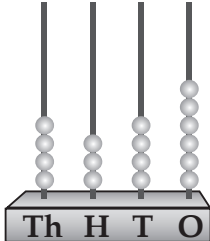
A. 1. 7 2. 0 3. 6 4. 6 5. 8146 6. 6848 7. 6484 8. 2973

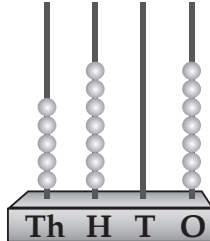
B. 1. 60 2. 100 3. 5 4. 0 5. 600

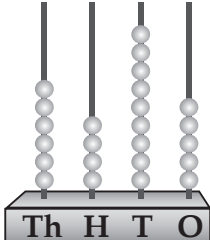
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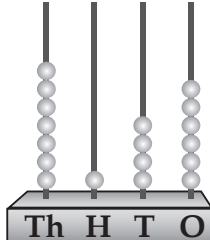
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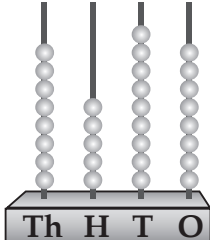
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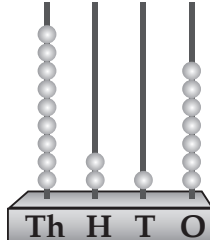
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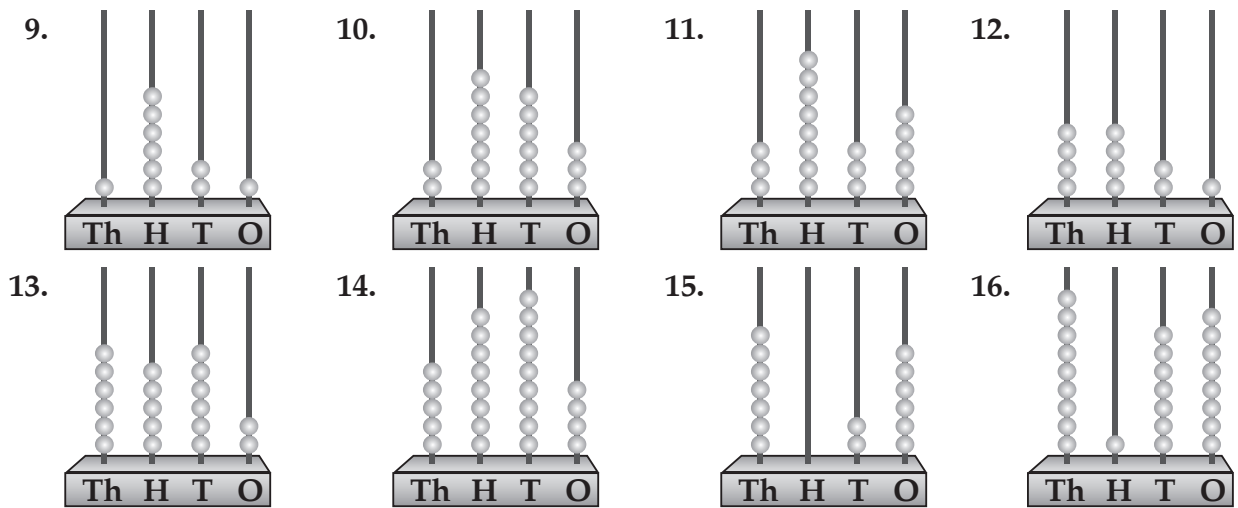
4. 

5. 

6. 

7. 

8. 



EXERCISE 1.6

1. 2301 2. 3347 3. 4954 4. 5461 5. 7895 6. 8701 7. 2526 8. 3568 9. 4133
 10. 6248 11. 7544 12. 8685

EXERCISE 1.7

- A. 1. 5200 2. 8132 3. 2058 4. 2143
 B. 1. 5699 2. 5762 3. 5299 4. 8865
 C. 1. 6098, 6005, 5286, 5123 2. 7820, 7726, 7529, 7326
 D. 1. 3865, 3873, 3874, 3880 2. 4200, 4231, 4296, 4900
 E. 1. **Largest Number:** 8420 **Smallest Number:** 2048
 2. **Largest Number:** 8731 **Smallest Number:** 1378
 F. 1. **Largest Number:** 9999 **Smallest Number:** 2000
 2. **Largest Number:** 8888 **Smallest Number:** 1000
 G. 1. **Largest Number:** 8742 **Smallest Number:** 1247
 2. **Largest Number:** 9653 **Smallest Number:** 1356

EXERCISE 1.8

1. 5270 2. 7240 3. 2350 4. 5300 5. 8200 6. 2200 7. 5000 8. 8000 9. 2000
 10. 4000

EXERCISE 1.9

- A. 1. IV 2. VIII 3. XII 4. XVI 5. XXI 6. XXVII 7. XXXIII 8. XXXIX 9. XXXV
 10. XIX 11. XXIV 12. XXXVI
 B. 1. 7 2. 14 3. 20 4. 29 5. 32 6. 18 7. 26 8. 34 9. 9 10. 25 11. 15 12. 30
 C. 1. ✓ 2. ✗ 3. ✗ 4. ✓ 5. ✓ 6. ✓
 D. 1. = 2. < 3. < 4. > 5. = 6. <

HOTS (page 83)

1. $\text{VI} + \text{IV} = \text{X}$ or $\text{VI} + \text{V} = \text{XI}$

2. $\text{XII} - \text{II} = \text{X}$ or $\text{XI} - \text{II} = \text{IX}$

Puzzle (pages 83–84)

1. 1079 — 1080
2. 5243 — 5343
3. 7680 — 6680
4. 2648 — 2000 + 600 + 40 + 8
5. 9351 — Nine thousand three hundred fifty one

2. ADDITION

ANSWERS

Let Us Recall

- A. 759
B. 1. 689 2. 768 3. 725 4. 640
C. 742 students
D. 615 buttons

EXERCISE 2.1

1. 9976 2. 9815 3. 5778 4. 5798 5. 9598 6. 8544 7. 4769 8. 7798 9. 9987
10. 6389 11. 7185 12. 9591 13. 9987 14. 9697 15. 8888

EXERCISE 2.2

1. 9520 2. 9238 3. 5900 4. 5385 5. 7796 6. 5750 7. 6459 8. 9186 9. 9073
10. 8834 11. 9219 12. 9608 13. 8612 14. 8136 15. 9576 16. 9084 17. 9558
18. 8368 19. 8161 20. 5694 21. 10000

EXERCISE 2.3

1. 4797 students 2. 3699 bags 3. 8102 4. 6652 bricks 5. 5828 shirts

EXERCISE 2.4

1. 3258 2. 1363 3. 1080 4. 1224 5. 4419, 1263 6. 2146, 3252 7. 3041 8. 1363
9. 2074 10. 2047 11. 2214 12. 1004 13. 2352 14. 0 15. 3679 16. 2457
17. 0 18. 3169

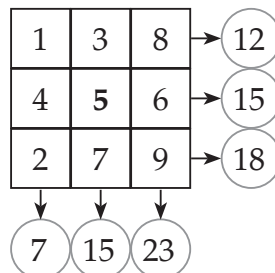
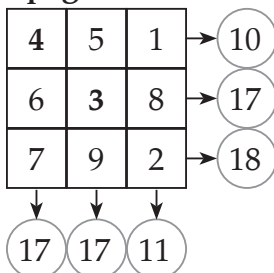
EXERCISE 2.5

- A. 1. 8430 2. 7260 3. 4940 4. 7680 5. 3740 6. 8780
B. 9100
C. 1. 3400 2. 6400 3. 7200 4. 7300 5. 8700 6. 3900
D. 6600
E. 1. 7000 2. 7000 3. 8000 4. 8000 5. 7000 6. 7000
F. 8000

Fun Zone (page 98)

1. Yes 2. Yes 3. Yes

Puzzle (page 98)



3. SUBTRACTION

ANSWERS

Let Us Recall

- A. 526
- B. 1. 233 2. 244 3. 240 4. 112
- C. 71 guests
- D. 348 boys

EXERCISE 3.1

1. 4342 2. 5536 3. 4024 4. 4126 5. 3372 6. 1635 7. 3736 8. 3645 9. 4464
10. 5331 11. 5210 12. 2632 13. 2183 14. 4131 15. 1233

EXERCISE 3.2

1. 4666 2. 5963 3. 4444 4. 4642 5. 3590 6. 3685 7. 4577 8. 1886 9. 1055
10. 649 11. 2677 12. 5652 13. 846 14. 3928 15. 803

EXERCISE 3.3

1. 1123 2. 5121 bags 3. 3108 seats 4. 1678 bricks 5. 4908

EXERCISE 3.4

1. 4152 2. 0 3. 7106 4. 0 5. 6236 6. 7514 7. 6142 8. 0 9. 8214 10. 0
11. 4598 12. 9339

EXERCISE 3.5

1. 5289; correct 2. 8604; correct 3. 5779; incorrect 4. 8724; incorrect

EXERCISE 3.6

1. 4999 2. 7082 3. 8387 4. 7056 5. 3070

EXERCISE 3.7

- A. 1. 830 2. 960 3. 260 4. 1460 5. 900 6. 1640
- B. 2900
- C. 1. 4600 2. 2800 3. 4000 4. 3900 5. 6300 6. 6300
- D. 1200
- E. 1. 1000 2. 5000 3. 2000 4. 5000 5. 2000 6. 4000
- F. 2000

Fun Zone (page 111)

2.

		175	125	200	
		250	425	50	
Start	1000	100	799	1	
				99	Trail

3.

		320	250	160	
		2100	730	855	
Start	4999	999	1100	315	
				1000	Trail

PERIODIC TEST—1

- A. 1. (c) 2. (d) 3. (b) 4. (a)
- B. 1. XVII; [odd] 2. XIX; [odd] 3. XXV; [odd] 4. XXXIV; [even]
- C. 1. 9; 99; 999; 9999 2. 6; 60; 600; 6000
- D. 1. 1099 2. 100
- E. 1. Successor = 1000, Predecessor = 998
2. Successor = 1024, Predecessor = 1022
- F. 1. **Largest Number:** 8742, **Smallest Number:** 1247
2. **Largest Number:** 9653, **Smallest Number:** 1356
- G. 1. 9598 2. 9558
- H. 8000
- I. 7082
- J. 3108 seats

4. MULTIPLICATION

ANSWERS

Let us Recall

A.

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

B. 1. 7 2. 7 3. 7 4. 10 5. 7, 9

C. 1. 484 2. 505 3. 738 4. 721

D. 920 toothbrushes

EXERCISE 4.1

A. 1. 6468 2. 9636 3. 9248 4. 5615 5. 6612 6. 8484 7. 8088 8. 9909 9. 4974
10. 4984 11. 7345 12. 6468

EXERCISE 4.2

A. 11, 22, 33, 44, 55, 66, 77, 88, 99, 110

B. 33, 44, 55, 66, 77, 88, 99

C. 72, 84, 96, 108, 120 or 12, 24, 36, 48, 60, 72, 84, 96, 108, 120

D. 36, 48, 60, 72, 84, 96, 108

E. 65, 78, 91, 104, 117, 130 or 13, 26, 39, 52, 65, 78, 91, 104, 117, 130

F. 26, 39, 52, 65, 78, 91, 104, 117

G. 56, 70, 84, 98, 112, 126, 140 or 14, 28, 42, 56, 70, 84, 98, 112, 126, 140

H. 28, 42, 56, 70, 84, 98, 112, 126

I. 45, 60, 75, 90, 105, 120, 135, 150 or 15, 30, 45, 60, 75, 90, 105, 120, 135, 150

J. 30, 45, 60, 75, 90, 105, 120, 135

K. 1. 66, 77, 88, 99 2. 60, 72, 84, 96, 108 3. 52, 65, 78, 91, 104, 117

4. 42, 56, 70, 84, 98, 112, 126 5. 30, 45, 60, 75, 90, 105, 120, 135
- L. 1. 77, 66, 55, 44, 33, 22 2. 96, 84, 72, 60, 48, 36, 24 3. 117, 104, 91, 78, 65, 52, 39, 26
4. 126, 112, 98, 84, 70, 56, 42, 28 5. 135, 120, 105, 90, 75, 60, 45, 30
- M. 1. 7 2. 10 3. 7 4. 9
- N. 1. 11 2. 13 3. 14 4. 15
- O. 1. 11; 11; 11; 11; 11
2. 12; 12; 12; 12
3. 13; 13; 13; 13; 13, 13, 13, 13, 13, 13
4. 14; 14; 14; 14; 14; 14
- P. 1. 8; 12 2. 9; 13 3. 8; 14 4. 7; 15
- Q. $6 \times 15 = \underline{90}$ $10 \times 15 = \underline{150}$ $3 \times 15 = \underline{45}$
 $9 \times 13 = \underline{117}$ $10 \times 11 = \underline{110}$ $10 \times 12 = \underline{120}$
 $7 \times 14 = \underline{98}$ $4 \times 14 = \underline{56}$ $2 \times 13 = \underline{26}$
 $9 \times 12 = \underline{108}$ $8 \times 12 = \underline{96}$ $10 \times 14 = \underline{140}$
 $7 \times 13 = \underline{91}$ $8 \times 14 = \underline{112}$ $5 \times 12 = \underline{60}$
 $9 \times 14 = \underline{126}$ $7 \times 15 = \underline{105}$ $6 \times 11 = \underline{66}$
 $5 \times 15 = \underline{75}$ $9 \times 11 = \underline{99}$ $8 \times 15 = \underline{120}$

EXERCISE 4.3

1. 8536 2. 9625 3. 9420 4. 9912 5. 8424 6. 9789 7. 8316 8. 9226 9. 9982
10. 7140 11. 8535 12. 9720

EXERCISE 4.4

1. 2610 2. 2295 3. 2772 4. 7224 5. 4032 6. 3128 7. 6882 8. 7200 9. 9804
10. 4082 11. 6882 12. 7936

EXERCISE 4.5

1. 80 2. 20 3. 260 4. 340 5. 2810 6. 7390 7. 300 8. 400 9. 2200 10. 9300
11. 9000 12. 4000

EXERCISE 4.6

1. 80 2. 210 3. 360 4. 100 5. 180 6. 280 7. 400 8. 270 9. 820 10. 2160
11. 920 12. 600 13. 2160 14. 5040 15. 1120

EXERCISE 4.7

1. 7200 2. 2100 3. 1200 4. 1800 5. 2800 6. 6300 7. 4800 8. 3500 9. 3000
10. 2000

EXERCISE 4.8

1. 400 2. 900 3. 1200 4. 1500 5. 1600 6. 3200 7. 3500 8. 4500 9. 3600
10. 2400

EXERCISE 4.9

1. 1320 pencils 2. 2400 chairs 3. 36 tickets 4. 3742 fruits 5. 1587 seats 6. 2376 books

7. 8480 soldiers 8. 8400 passengers

EXERCISE 4.10

1. 3116 2. 1 3. 4332 4. 1219 5. 3476 6. 2316 7. 2315 8. 0 9. 0 10. 1336, 3512
11. 1212, 1343 12. 5634, 4246 13. 2412, 7534

EXERCISE 4.11

- A. 1. 3000 2. 4500 3. 600 4. 1400 5. 1000 6. 600
B. 4000

HOTS (Page 131)

1. 2016 h 2. 6000 incense sticks 3. 3 crates oranges + 4 crates mangoes = 7 crates in all

Fun Zone (pages 131–132)

1 → 8940, 2 → 9480, 3 → 10020, 4 → 10560, 5 → 11100, 6 → 11640, 7 → 12180,
8 → 12720, 9 → 13260

Puzzle (page 132)

- A. 1. (a) 125 (b) 330 (c) 9999 2. (a) 1 (b) 30 (c) 2
B. 28

5. GEOMETRY

ANSWERS

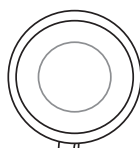
Let Us Recall

- A. 1 and 2. Do it yourself.
- B. 1 and 2. Do it yourself.

EXERCISE 5.1

- A. 1. No 2. A triangle has no diagonals
- B. 1. Blue 2. Green 3. Red 4. Blue
- C. 1. 4 sides, 4 corners, 2 diagonals
2. 5 sides, 5 corners, 5 diagonals
3. 6 sides, 6 corners, 9 diagonals
- D. 1. (c) 2. (d) 3. (e) 4. (b) 5. (a)
- E. Do it yourself.

Page 139



Top view



Side view



Front view

EXERCISE 5.2

A.	Objects	Rough sketch and name	No. of faces	No. of edges	No. of vertices
			1	0	0
			6	12	8
			3	2	0
			2	1	1
			6	12	8

- B. 1. (b) (iii) 2. (c) (i) 3. (a) (ii)

Fun Zone (Page 141)

- A. 1. Triangle 2. Cuboid
B. 1. Hemisphere 2. Sphere
C. 3. Cone
D. 1. Prism

PERIODIC TEST—2

- A. 1. < 2. > 3. = 4. < 5. =
B. 1. False 2. True 3. True 4. False
C. 1. (c) 2. (d) 3. (e) 4. (b) 5. (a)
D. 1. $3000 + 700 + 60 + 2$ 2. $5000 + 0 + 80 + 9$
E. Do it yourself.
F. 1. 8484 2. 4082
G. 5400
H. 6652 bricks
I. 3108 seats
J. 3472 fruits

1. LIVING AND NONLIVING THINGS

ANSWERS

Warm Up

Living things: Bird, plants

Nonliving things: Water, stones

Checkpoint 1

1. A mountain
2. Sunflower

Checkpoint 2

1. Touch-me-not plant
2. Stomata
3. Lungs

Check Your Study

A. 1. (a) 2. (b) 3. (b)

B. 1. eggs 2. food 3. nonliving 4. grow 5. gills

C. 1. Living things grow, move, breathe, need food, feel their surroundings, excrete and reproduce.

2. Living things like animals move by legs, birds by wings and fishes by fins.

3. We need food to live and grow.

4. Plants make their food in green leaves, in the presence of sunlight, by taking water from soil and carbon dioxide gas from air.

5. The removal of waste from the body is called excretion.

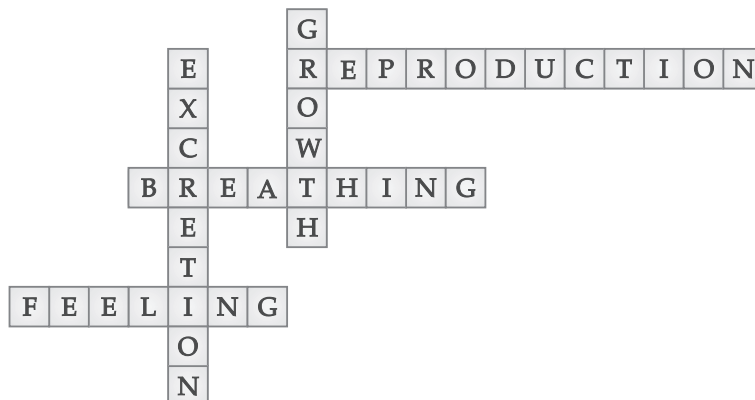
D. 1. A car does not move itself. It moves when it is charged and started.

2. Because it is a nonliving thing.

3. Because without leaves, a plant cannot make its food and will die of hunger.

E. 1. Do it yourself.

G. 2.



2. STRUCTURE AND FUNCTIONS OF A PLANT

ANSWERS

Warm Up

Leaves, flowers, fruit

Checkpoint 1

1. True
2. False
3. True

Checkpoint 2

1. Orange
2. bud
3. papaya

Check Your Study

- A. 1. (c) 2. (b) 3. (c)
- B. 1. False 2. True 3. False
- C. 1. A plant has root, stem, leaves, flowers, fruits and seeds.
2. Fibrous roots are the bunches of thread-like roots that grow from the base of the stem whereas tap root has one main root and many branches arising from it.
3. Roots hold the plant in the soil and take water and nutrients from the soil.
4. The stem keeps the plant straight and carries water from roots to leaves and food from leaves to other parts of plant.
5. Stomata on the leaves help the plant breathe by taking in and giving out air.
- D. 1. Because during breathing, plants also release carbon dioxide gas which would make the room suffocating.
2. Moss sticks hold the water sprinkled on them and provide sufficient amount of moisture to money plant trailing over them.
3. Seeds are important for the plant because they grow into baby plants.
- F. **Hint:** By growing plants in discarded wooden boxes, metal containers, etc. and keeping them on terrace or some unused open space. In absence of open space, indoor plants can be used.

3. ANIMALS AND THEIR FEEDING HABITS

ANSWERS

Warm Up

Grains, nuts, etc.

Checkpoint 1

1. Vulture 2. Sheep 3. Goat 4. Deer

Checkpoint 2

1. Chameleon 2. Mosquito 3. Snake

Check Your Study

- A. 1. (a) 2. (b) 3. (a)
- B. 1. swallowing 2. trunk 3. live; grow 4. plants
- C. 1. Animals eat food to live and grow.
2. Animals that eat plants only are called herbivorous animals.
3. A mosquito gets its food by piercing the skin and sucking the blood through its long, hollow tube-like mouthparts.
4. The sharp canines of carnivores help them tear the flesh and strong flat teeth help them grind and chew the flesh.
5. The crocodile and snake swallow their food whole.
- D. 1. Front teeth are required for biting the food. As carnivores eat much of their food by tearing, their front teeth are not much developed.
2. Mosquitoes and butterflies cannot eat solid food because they have tube-like hollow mouthparts which can suck food in liquid form only.
3. Snakes swallow their food whole because their teeth are not able to chew the food.
- E. Bite — Deer, Monkey
Suck — Bed bug, Housefly
Lick — Cat, Dog
Nibble — Grasshopper, Parrot
Chew — Cow, Horse
Gnaw — Squirrel, Rat

PERIODIC TEST—1

- A. 1. nonliving 2. gills 3. stem 4. seed 5. swallow
- B. 1. False 2. True 3. True 4. False 5. True
- C. 1. (a) 2. (e) 3. (a) 4. (c) 5. (d)
- D. 1. (a) 2. (c) 3. (d) 4. (d) 5. (a)
- E. 1. We need food to live and grow.
2. Plants make their food by the process of photosynthesis using carbon dioxide gas and water in the presence of sunlight.

3. Seeds are important for the plant because they grow into baby plants.
4. Animals that eat plants only are called herbivorous animals.
5. The sharp canines of carnivores help them tear the flesh while strong and flat teeth help them grind and chew the flesh.

4. WORLD OF BIRDS

ANSWERS

Warm Up

Hint: The bird shown is a water bird with long beak. It can eat small fishes and water insects. So, students can draw a fish and colour it.

Checkpoint 1

1. Down feathers
2. Oil glands
3. Boat-shaped or Streamlined

Checkpoint 2

1. shredder
2. flying
3. webbed
4. nests

Check Your Study

A. 1. (c) 2. (c) 3. (a)

B. 1. False 2. False 3. False 4. False 5. True

C. 1. streamlined 2. down; flight 3. water 4. perching 5. heron; flamingo

D. 1. (e) 2. (b) 3. (a) 4. (c) 5. (d)

E. 1. Swan, duck.

2. Aquatic birds have oil glands below their feathers. The swimming birds have webbed feet for swimming and wading birds have long wading type of feet for walking on soft surfaces and in muddy water.

3. Ostrich cannot fly because its bones are heavy and solid. It has smaller wing bones.

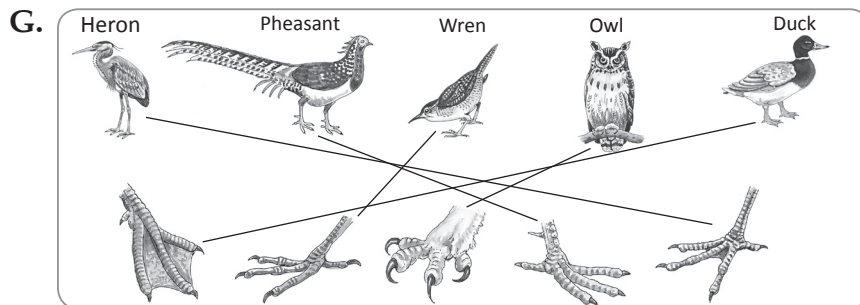
4. Birds build nests to lay eggs, bring up and keep safe their young ones.

5. The parent birds look after their young ones by feeding, keeping warm and protecting them from enemies and bad weather.

F. 1. To catch and hold its prey firmly.

2. For straining small plants and animals from the muddy water.

3. Because they all look alike.



5. OUR BODY

ANSWERS

Warm Up

1. Head
2. Eyes
3. Nose
4. Ears
5. Arms
6. Legs
7. Chin
8. Neck
9. Hands
10. Feet
11. Mouth
12. Elbow
13. Knee
14. Chest
15. Cheeks
16. Teeth

Checkpoint 1

1. (c)
2. (a)
3. (b)

Checkpoint 2

1. Blood
2. Brain
3. Heart

Check Your Study

- A. 1. (b) 2. (c) 3. (b)
- B. 1. bones 2. digestive juice 3. kidneys 4. windpipe 5. nose
- C. 1. (c) 2. (a) 3. (d) 4. (e) 5. (b)
- D. 1. blood 2. bone 3. muscle 4. stomach
5. heart 6. teeth 7. lungs 8. kidney
- E. 1. Heart, brain, lungs, kidneys, liver, stomach, etc.
2. Kidneys
3. Circulatory system supplies blood to all the parts of the body.
4. In mouth, the food is chewed and mixed with saliva.
- F. 1. To make our muscles strong.
2. Because brain controls all the activities of the body.

S	K	U	L	L	A	B	L	T	T
Z	I	B	V	N	E	R	V	E	S
A	D	T	F	P	F	A	S	E	K
B	N	F	E	S	S	I	V	T	Q
H	E	A	R	T	N	N	F	H	N
N	Y	F	O	O	D	P	I	P	E
D	J	C	Q	M	O	U	T	H	J

6. EAT HEALTHY

ANSWERS

Warm Up



Good for health

Good for health

Not good for health

Checkpoint 1

1. Vegetable group 2. Others 3. Meat group 4. Milk group 5. Fruit group

Checkpoint 2

1. (X) 2. (✓) 3. (✓) 4. (X)

Check Your Study

A. 1. (a) 2. (b) 3. (d) 4. (b)

B. 1. False 2. True 3. True 4. False

C. 1. Protective food

2. The food that protects us from diseases is called protective food.

3. A diet containing the right amount of food from each food group is called a balanced diet.

4. Liquids such as milk, lassi, milk shakes, fresh fruit juices, etc. in our daily diet clean our body systems.

D. 1. Because junk food is not good for our health as it is cooked with lots of salt, sugar, refined flour and oil.

2. Because fruits and vegetables are sprayed with toxic chemicals to save them from harmful insects while they are grown.

3. Because sportspersons need extra energy, strong muscles and good health to do many physical activities. Eggs and meat are growth food and make muscles strong. Nuts protect from diseases and butter gives extra energy.

E. **Hint:** Advise him to visit a doctor and take fresh, clean and healthy food.

7. KEEP SAFE

ANSWERS

Warm Up

They should not override on the swing.

Checkpoint 1

1. Yes 2. No

Checkpoint 2

1. At zebra crossing 2. Outdoor games keep us healthy and active

Check Your Study

- A. 1. (b) 2. (b) 3. (b)
B. 1. True 2. True 3. False 4. True
C. 1. Wet 2. equipment 3. panic 4. first aid
D. 1. An unexpected event that harms or injures us is called an accident.
2. (a) Walk on the footpath
(b) Cross the road at zebra crossing
(c) Be alert for sounds and horns of approaching vehicles.
3. **Hint:** Ask students for writing their favourite outdoor game.
Safety rules:
(a) Do not fight with others and break the rules.
(b) Do not push or hit others.
(c) Wait for your turn.
4. Stop, No U-turn, No Entry, No Horn, No Parking
E. 1. To avoid accident
2. To slow down the flow of blood from the cut.
F. (b)

PERIODIC TEST—2

- A. 1. platform 2. strainer 3. perching 4. organ 5. sweat
6. functions
B. 1. Trunk 2. Nerves 3. Protective food 4. Junk food
5. Zebra crossing
C. 1. duck 2. weak and featherless 3. 206; 600 4. junk
5. roof
D. 1. Lungs 2. Staircase 3. Sparrow 4. Frog

- E. 1. Aquatic birds have oil glands below their feathers. The swimming birds have webbed feet for swimming and wading birds have long wading type of feet for walking on soft surfaces and in muddy water.
2. Circulatory system supplies blood to all parts of the body.
 3. Brain is called the control centre of the body.
 4. The food that helps to grow is called growth food.
 5. We should follow safety rules to avoid accidents.

1. WE LIVE ON THE EARTH

ANSWERS

Warm Up

Line should be drawn from the spaceship to the planet in blue colour (Earth).

Checkpoint

1. T 2. F 3. T 4. T

Check Your Study

A. 1. (a) 2. (a) 3. (c)

B. 1. stars 2. round 3. round 4. horizon

C. 1. The solar system is the family of all the planets, natural satellites and the sun together.

2. Magellan proved that the Earth is round by sailing westward. His team reached the same place where it had started from, thus proving that the Earth is round.

3. A coast is the region where an ocean/sea meets land.

D. **Hint:** The Earth moves round the sun from west to east.

E. Do it yourself.

F. (a)

2. THE FACE OF THE EARTH

ANSWERS

Warm Up

Globe.

Checkpoint

1. part 2. globe 3. atlas

Check Your Study

A. 1. (b) 2. (a) 3. (a)

B. 1. (b) 2. (d) 3. (a) 4. (c)

C. 1. World map 2. Ocean 3. Mariner's compass

D. 1. A book of maps.

2. Directions on a map are marked. If not marked, the top of the map is always north.

3. A map is the drawing of the whole Earth or a part of the Earth on a flat surface.

A globe is the drawing of the whole Earth on a circular surface.

E. **Hint:** During the day, the sun, during night, the pole star.

F. Do it yourself.

G. Do it yourself.

H. (b)

3. THE NEIGHBOURS OF THE EARTH

ANSWERS

Warm Up

Do it yourself.

Checkpoint

1. At night.
2. A star.
3. The sun.
4. In 1969.

Check Your Study

A. 1. (c) 2. (b) 3. (a)

B. 1. neighbours 2. star 3. eight 4. water

C. 1. Stars and the moon.

2. The sun.

3. It is a natural satellite of Earth.

4. A constellation is a group of stars that resembles shapes of different animals.

D. **Hint:** These things are not found on the moon.

E. **Across:** 1. JUPITER 3. SATURN 5. NEPTUNE 6. MARS

Down: 2. EARTH 4. URANUS

F. (a)

G. We are proud of you.

4. THE STATES IN OUR COUNTRY

ANSWERS

Warm Up

Do it yourself.

Checkpoint

1. T 2. F 3. T 4. T

Check Your Study

- A. 1. (c) 2. (b) 3. (a) 4. (a)
- B. 1. Union government 2. State government 3. Union government 4. President
- C. 1. The Central Government looks after the whole nation.
2. The State Government looks after a particular state.
3. The Governor and the Chief Minister.
- D. Mother and motherland are better than the heaven.
- E. Do it yourself.
- F. Do it yourself.
- G. The first activity.

PERIODIC TEST—1

- A. 1. (b) 2. (c) 3. (a) 4. (b) 5. (c)
- B. 1. mixture 2. flat 3. continents 4. constellation 5. Karnataka
- C. 1. False 2. True 3. False 4. True 5. False
- D. 1. It is the only planet where life exists.
2. A globe is a model of the whole Earth. It is round in shape. A map is a drawing of the whole or part of the Earth on a flat surface.
3. The sun gives us heat, light and energy. The heat of the sun keeps us warm. The day is lighted up with sunlight. Plants use sunlight to make food. The sun is an important source of energy called the solar energy. We can use solar energy as electricity.
4. Since India is very big, it is not possible for a government to rule the whole nation. Therefore, the whole country is divided into states and Union Territories.
5. A State Government takes care of a particular state whereas the Central Government takes care of the whole country.
- E. 1. Globe 2. Aristotle 3. Magellan 4. Mariner's Compass
5. The Rashtrapati Bhawan

5. THE LAND OF OUR COUNTRY

ANSWERS

Warm Up

1. Edmund Hillary
2. Tenzing Norgay

Check Your Study

- A.** 1. (c) 2. (a)
- B.** 1. This is because the plain areas are formed by flood soil brought by rivers.
2. The southern part of India is a plateau and is called the Deccan Plateau or the southern Plateau. The southern plateau is surrounded by hill ranges on all sides. It is made up of very hard rocks. The land is less fertile than the plain area. Some parts of the plateau region are covered with thick forests. The plateau region is rich in minerals.
3. The southern part of India is called a peninsula because it is surrounded by water on three sides.
4. There are few trees in the deserts because they receive less rainfall.
- C. Hint:** Rivers coming from the Himalayas get water from ice but the rivers from the Deccan Plateau get water from rain.
- D.** Do it yourself.
- E.** Do it yourself.

6. OUR ENVIRONMENT

ANSWERS

Warm Up

Do it yourself.

Check Your Study

A. 1. (b) 2. (c)

B. 1. River 2. Dam 3. Burning of plastic bags

C. 1. We change the natural environment for our comfort.

2. Dirty environment is not good for health.

D. My effort to save the environment is to plant trees and not use plastic bags.

E. Do it yourself.

F. Do it yourself.

7. OUR VILLAGES AND CITIES

ANSWERS

Warm Up

1. V 2. C 3. C 4. V

Checkpoint

1. False 2. False 3. True

Check Your Study

- A. 1. (c) 2. (a) 3. (c)
- B. 1. (d) 2. (a) 3. (c) 4. (b)
- C. 1. Cities are bigger than villages. The lifestyle of the people of cities is different from that of the village people. Also, a city has better facilities than a village.
2. Airport, hospitals, etc.
3. Municipal Corporation.
4. A Gram Panchayat is a local government. It looks after the administration of a village.
- D. **Hint:** Yes, many people live in villages; making hospitals and colleges will check flow of population from villages to cities.
- E. BENGALURU, KOLKATA, CHENNAI, DELHI, KANPUR, AGARTALA, MUMBAI
- F. (a)

8. THE CLOTHES WE WEAR

ANSWERS

Warm Up

Do it yourself.

Checkpoint

1. Women.
2. Trousers and T-shirts.
3. Trousers and T-shirts.

Check Your Study

- A. 1. (c) 2. (b) 3. (a) 4. (b)
- B. 1. Our clothing habits are largely determined by climatic conditions.
2. Phiran is a long and loose woollen kurta worn by women in Kashmir.
3. Tribal people like to wear colourful, traditional dresses.
- C. **Hint:** Woollen clothes keep us warm.
- D. Do it yourself.
- E. Do it yourself.
- F. Do it yourself.
- G. (b)

9. OUR BIG CITY—DELHI

ANSWERS

Warm Up

Delhi Gate

Checkpoint

1. the Yamuna 2. Indraprastha

Check Your Study

- A. 1. (a) 2. (b)
- B. 1. Uttar Pradesh, Haryana
2. Calcutta
3. Rashtrapati Bhawan
- C. 1. Indraprastha, Shahjahnabad
2. India Gate, Akshardham Temple, Lotus Temple, Red Fort, Qutab Minar, etc.
3. North Block and South Block.
- D. National Capital Region.
- E. Do it yourself.
- F. Do it yourself.
- G. Do it yourself.
- H. (b)

PERIODIC TEST—2

- A. 1. (a) 2. (c) 3. (b) 4. (c) 5. (b)
- B. 1. heavenly 2. Great Indian Desert 3. Environment 4. villages 5. horizon
- C. 1. False 2. True 3. False 4. False 5. True
- D. 1. Small states directly ruled by the Central Government are called Union Territories.
2. The southern part of India is called a peninsula because there land is surrounded by water **bodies on three sides**.
3. Noise that is loud or harmful for our ears is called noise pollution.
4. Villagers generally migrate to cities in search of better job opportunities and other facilities.
5. Edwin Lutyens.
- E. 1. The Red Fort 2. Akshardham Temple 3. Mount Everest 4. Air pollution
5. Land pollution