

ENGLISH MEDIUM TEACHER MANUAL

CLASS-4 SEM-I



SOLO SEMESTER BOOK-4 SEM-I

ENGLISH

1. Mother- Our First Teacher

- A. 1. a 2. b 3. c 4. a 5. b
- **B.** 1. town 2. kitchen 3. breakfast 4. table 5. mother
- C. 1. T 2. F 3. F 4. T 5. T
- D. 1. The name of Alina's father was Mr. Jonathan. 2. Mrs. Samantha was the mother of Alina. 3. Alina was a prankish girl. 4. Alina started crying bitterly because her mother was not listening to her. 5. Alina promised her mother that she will not hurt anyone from now.
- **E.** 1. Prank 2. Father 3. Mother 4. Complaint 5. Breakfast 6. Hungry
- **F.** 1. They were playing badminton with friends. 2. She loves watching movies. 3. He went to Greenfield International School. 4. It is delicious.

2. Grandpa Lost his Glasses

- **A.** 1. c 2. b 3. c 4. a 5. c
- **B.** 1. reading 2. fairy 3. loveliest 4. strange 5. new
- C. 1. F 2. T 3. T 4. T 5. T
- **D.** 1. Grandpa often lost his glasses. 2. Grandpa told fairy tales on weekends. 3. Grandpa stepped on the glasses and broke its shafts. 4. Because optician shop closed early and next day was Sunday. 5. She fixed the glasses with the help of needle and thread.
- E. 1. d2. c3. e4. b5. a
- **F.** 1. is 2. are 3. am 4. are 5. is
- G. 1. guava 2. peacock 3. sheep 4. pea

5. book

3. Kalpana Chawla

- A. 1. b 2. b 3. a 4. c
- **B.** 1. T 2. F 3. T 4. F 5. T
- C. 1. Kalpana Chawla was born on 6th January 1961. 2. She was fond of flying, hiking, backpacking and reading. 3. She completed her studies up to university level in India. 4. To become a pilot and fly high in the sky. 5. She died when Columbia shuttle was on its way back to the earth.
- **D.** Do yourself.
- E. 1. River-Ganga,
 - 2. Mountain-Himalayas,
 - 3. City Delhi,
 - 4. Country-India, 5. Boy-Ravi,
 - 6. Village Dadri, 7. Girl Nidhi,
 - 8. Teacher Mr. Tvagi,
 - 9. Book Ramayana,
 - 10. Ocean Indian Ocean.
- F. 1. Required 2. Chair 3. Butterfly
 - 4. Behaviour 5. Promise 6. Decent
 - 7. Worried 8. Prank

4. A Shiny Green Pencil

- A. 1. b 2. c 3. a 4. c 5. a
- **B.** 1. green 2. sharply 3. lack 4. bear 5. use
- C. 1. F 2. T 3. T 4. T 5. F
- **D.** 1. The pencil is of green colour. 2. The point of pencil is sharply black. 3. The child can draw all kinds of pictures of animals, things and people. 4. The child wants to draw a secret house in a tree top. 5. The child wants to draw a bear to play with him.

- E. 1. green 2. shiny 3. point 4. animals 5. people 6. house
- **F.** 1. pencil 2. eraser 3. pictures 4. ducks
- G. 1. Nephew–Niece 2. Bull–Cow 3.Man–Woman 4. Brother–Sister 5.Father–Mother 6. Dog–Bitch 7.Cock–Hen 8. Boy–Girl.
- H. 1. The sun shines in the sky. 2. He can draw picture. 3. Raj wants to go to market. 4. We play in the park. 5. I keep my pencil in a box.

5. A Strange Prisoner

- A. 1. b 2. c 3. c 4. a 5. b
- **B.** 1. F 2. T 3. T 4. F 5. T
- **C.** 1. A prisoner. 2. Life imprisonment. 3. One day, he fled midnight. 4. In America 5. To perform some experiments.
- D. 1. To make the sea water potable.

 2. because he had done a great duty to humanity.

 3. He was set free jail officials.

 4. It resulted staffers.

 5. To perform some experiments.

 6. A prisoner. To perform some experiments to make the sea water potable. It resulted staffers.

 7. He was set free because he had done a great duty to humanity.
- E. 1. I have chosen your alternative.
 2. James Watt invented steam engine. 3. He did a lot for humanity. 4. You have to recollect these articles. 4. People spend half their time day-dreaming. 5. Never escape from difficulties.
- F. 1. It was a juicy carrot. 2. The rabbit was very clever. 3. The three donkeys went away at top speed. 4. Each thought himself to be the winner. 5. Sonal was writing a

novel. 6. The mother found her child asleep. 7. They are playing cricket.

6. Almighty God

- **A.** 1. c 2. a 3. a 4. b 5. a
- **B.** 1. T 2. F 3. F 4. T 5. T
- ${f C.}\ 1.$ All creatures big or small.
 - 2. God 3. To see everything
 - 4. Winter season. 5. Ripe fruit
- D. 1. All living beings and nature.

 2. Because He has made all things and He has given us senses to see everything equally. 3. In winter, cold wind blows while in summer, it is too hot. 4. God has given us eyes to see and lips to speak. 5. God is almighty. He has made all things including living things and nature.
- **E.** 1. Small 2. Winter 3. Unpleasant 4. Foolish
- **F.** 1. more, most 2. smaller, smallest 3. bigger, biggest 4. kinder, kindest 5. worse, worst

7. Porus and Alexander

- **A.** 1. b 2. b 3. a 4. a 5. a
- **B.** 1. T 2. F 3. T 4. F 5. T
- C. 1. In Macedona (now called Greece). 2. In 326 BC. 3. Ambi, the king of Taxila 4. Twenty-six years 5. Brave
- D. 1. Two. Ambi and Porus 2. "Come to Taxila to surrender." 3. "I shall certainly battle field." 4. Porus 5. The brave and fearless answer of Porus. 6. He was a young king of Greece. He dreamt of world. 7. Porus. He attacked the army of Porus suddenly.
- **E.** 1. Prolonged illness has deprived him of resistance. 2. Porus was bleeding profusely from his

wounds. 3. He admired her for her beauty. 4. The fields had become marshy.

F. 1. It is his hobby to collect stamps.

2. It is also necessary to sleep. 3. It is wastage of time to play cards. 4. It is good quality to sing a song. 5. It is necessary to work hard. 6. It is a good manner to speak politely.

7. It is a good virtue to always speak the truth. 8. It is our duty to obey our elders.

MATH

Total Recall Exercise-1

- 1. (a)3376 = Three thousand three hundred seventy-six (b)5689 = Five thousand six hundred eight-nine
- **2.** (a) 4829 (b) 7523
- **3.** (a) 5000 (b) 7999 (c) 7860
- **4.** (d) 5439

Hence, there are 28 numbers.

- **6.** Smallest number = 5078
- 7. Greatest number = 9310
- 8. (a) 1879 = 1000 + 800 + 70 + 9(b) 2416 = 2000 + 400 + 10 + 6
- **9.** (a) 3584 (b) 5571
- **10.** (a) 636 < 863
 - (b) $36 \times 9 = 324$
 - (c) 9252 < 9595
 - (d) 6215 > 6125
- 11. (a) (b) Η Т Η O 0 3 0 1 6 0 + 2 3 0 9 + 6 + 5

- (c) H T O 5 9 5 + 3 1 0 + 4 4 5 13 5 0
- 12. (a) H T O (b) H T O 8 9 2 7 7 1 - 3 8 1 - 3 6 6 - 4 0 5
 - (c) H T O 8 1 2 - 5 2 4 2 8 8
- - (c) H T O 2 1 5 × 6 6 4 5
- 14. (a) $25\overline{\smash{\big)}\ 125} = 5$ (b) $4\overline{\smash{\big)}\ 2848} = 712$ $-\frac{125}{0}$ $-\frac{28}{4}$ $-\frac{4}{8}$ $-\frac{8}{0}$
- 15. $\frac{\text{Numerator}}{\text{Denominator}} = \frac{9}{12}$
- **16.** (a) $\frac{2}{4} = \frac{1}{2}$ (b) $\frac{4}{6} = \frac{2}{3}$ (c) $\frac{4}{8} = \frac{1}{2}$
- 17. (a) $3 \text{ m } 85 \text{ cm} = 3 \times 100 + 85$ = 300 + 85

$$= 385 \, \text{cm}$$

(b) $4 \text{ km } 950 \text{ m} = 4 \times 1000 + 950$

$$=4000 + 950$$

 $= 4950 \, \mathrm{m}$

18. (a)

$$\overline{*}$$
 P
 (b)
 $\overline{*}$
 P

 35
 50
 225
 62

 $+$ 125
 65
 $+$ 418
 65

 161
 15
 $-$ 644
 27

- **19.** (a) 8 : 00 (b) 3 : 30 (c) 10 : 00
- **20.** (a) 12 months (b) 7 days (c) 60 minutes (d) 366 days
- 21. (a) Th H T O

 Men in the village = 3 5 6 5

 Women in the village = + 2 6 9 5

 Children in the village = + 1 5 7 2

 Total population = 7 8 3 2

- **22.** & **23.** Do yourself
- **24.** (a) 4 years and 7 months

$$= 4 \times 12 + 7$$

= 48 + 7 = 55 months

- (b) 7 years and 3 months = $7 \times 12 + 3$ = 84 + 3 = 87 months
- 25. (a) 6 hours = 6×60 = 360 minutes
 - (b) 7 hours and 45 minutes = $7 \times 60 + 45$

=420+45

= 465 minutes

(c) 4 hours and 30 minutes

$$= 4 \times 60 + 30$$

= 240 + 30

 $= 270 \, \text{minutes}$

Number System Exercise- 2.1

- 1. (a) 58931 = 58932, 58933, 58934, 58935, 58936
 - (b) 23415 = 23416, 23417, 23418, 23419, 23420
 - (c) 34251 = 34252, 34253, 34254, 34255, 34256
 - (d) 63912 = 63913, 63914, 63915, 63916, 63917
 - (e) 120935 = 120936, 120937, 120938, 120939, 120940
 - (f) 354937 = 354938, 354939, 354940, 354941, 354942
 - (g) 99091 = 99092, 99093, 99094, 99095, 99096
 - (h) 433451 = 433452, 433453, 433454, 433455, 433456
 - 433434, 433433, 433436 (i) 519831 = 519832, 519833, 519834, 519835, 519836
- **2.** (a) 43459, 43460, 43461 (b) 234583, 234581, 234579 (c) 134869, 134969, 135069
 - (d) 15347, 16347, 17347
- 3. (a) 131457, 131458, 131459, 131460 (b) 43457, 43458, 43459, 43460, 43461 (c) 562233, 562234, 562235, 562236, (d) 234570, 234571, 234572, 234573, 234574, 234575
- **4.** (a) 3000 (b) 9 (c) 80 (d) 60000 (e) 8000 (f) 700
- **5.** (a) 334128, 334133, 334138, 334143 (b) 74768, 74773, 74778, 74783 (c) 43715, 43720, 43725 (d) 558770, 558775, 558780, 558785
- **6.** (a) 54330, 54340, 54350 (b) 78931, 78941, 78951 (c) 735444, 735454, 735464 (d) 44402, 44412, 44422
- **7.** (a) 35500, 35600, 35700, 35800 (b) 625805, 625905, 626005, 626105 (c) 21454, 21554, 21654, 21754

- (d) 58476, 58576, 58676, 58776
- **8.** (a) 33544, 34544, 35544,
 - (b) 79366, 80366, 81366
 - (c) 516876, 517876, 518876
 - (d) 36896, 37896, 38896
- **9.** Smallest number of five digits = 10000
- **10.** Greatest number of five digits = 99999
- 11. Smallest number of six digits = 100000
- **12.** Greatest number of six digits = 9999999

Exercise - 2.2

- 1. (a) 2 (b) 30000 (c) 30000 (d) 3 (e) 3000 (f) 700
- **2.** (a) 2 (b) 7 (c) 8 (d) 2 (e) 9 (f) 9
- 3. (a)

TTh	Th	Н	T	О
5	8	0	0	9

= 58009

(b)

L	TTh	Т	Н	Т	О
6	5	8	3	4	5

=658345

(c)

TTh	Th	Н	T	О
5	5	3	9	2

=55392

- **4.** (a) 5 digit
- (b) 6 digit
- (c) 6 digit
- (d) 6 digit
- 5. (a) 50000+8000+900+60+3 (b) 700000+70000+9000+200 +800+3 (c) 50000+8000+700+ 60+3
- **6.** (a) 56093 (b) 6987 (c) 83578 (d) 35901
- **7.** (a) 5,79,832 (b) 2,59,632 (c) 58,763
- 8. = 70000 + 8000 + 900 + 10 + 2(b) is true

Exercise - 2.3

- **1.** (a) 21593 > 15879 (b) 7893 < 15193
- **2.** (a) 780 < 1529 < 1983 < 2222 < 3001(b) 572 < 3354 < 35231 < 89760 < 98705 (c) 7 < 77 < 7777 < 77777
- **3.** (a) 4319 > 3421 > 2001 > 1000 (b) 11000 > 9582 > 5807 > 3543 > 1529 (c) 576340 > 8000 > 4263 > 1546 > 325
- **4.** (a) 89671 (b) 8707 (c) 8100 (d) 7701
- **5.** (a) 7701 (b) 5875 (c) 43011 (d) 2104
- **6.** (a) 289900 (b) 510510
- 7. Greatest 3 digit number = 999 Successor = 999 + 1 = 1000
- 8. Greatest 3 digit number = 999 Predecessor = 999 - 1 = 998
- **9.** (a) 1879 (b) 500
- **10.** (a) 7 (b) 6 (c) 6 (d) 5
- 11. (a) Predecessor 28645 1 = 28644Successor 28645 + 1 = 28646
 - (b) Predecessor 4286 1 = 4285Successor 4286 + 1 = 4287
 - (c) Predecessor 2964 1 = 2963Successor 2964 + 1 = 2965
 - (d) Predecessor 486798 1

=486797

Successor 486798 + 1 = 486799

12. (a) 80 (b) 700 (c) 4 (d) 60 (e) 500

MCQs:1.(b)2.(d)3.(c)4.(b)

Addition of Numbers

Exercise - 3.1

- 1. (a) TTh Th T Η 0 7 9 2 5 1 2 0 3 5 4 9 9 5 6
 - (b) TTh Th Η T O 5 5 2 3 6 0 1 2 5 9 6

(c)	TTh 2 + 4 6	Th 1 7 9	H 3 9	T 8 2	O 7 6 3
(d)	TTh 3 + 4 7	Th 5 2 8	H 1 9	T 7 3	O 4 8 2
(e)	TTh 5 + 8 13	Th 2 0 3	H 9 1	T 3 7	O 8 2 0
(f)	TTh 3 + 1 4	Th 5 4 9	H 4 2 6	T 1 3	O 2 7 9
(g)	TTh 5 + 5	Th 0	H 7 1	T 2 3 6	O 6 6 2
(h)	TTh 1 + 1 3	Th 7 4 2	H 8 3 3	T 9 5 5	O 2 1 9 2
(i)	TTh 6 7 + 14	Th 7 8	H 7 2 4 3	T 4 3 0	O 3 1 0 4
(j)	TTh 7 1 + 2	Th 8 3 3	H 5 4 8	T 2 5 7	O 3 6 8

5 8 5 7

11

Exercise - 3.2 1. (a) Th L TTh Η Τ 0 2 3 5 7 8 5 5 +11 3 2 1 9 6 TTh Th (b) L Η T Ο 9 5 6 6 3 2

3

9

+ 3

0

1

2

Exercise - 3.3

- 1. Population of city = 759523 Population of other city = + 5 8 6 2 9 3 Population of both 13 4 5 8 1 6 the cities = 2. Cost of a plot =₹ 35600
- Construction cost = + ₹ 285750 Total amount invested = ₹321350 3. Amount deposited
- 95723 initially = Amount deposited + ₹800000 after 6 months = Total amount ₹895723 deposited =
- 4. Old movies CDs = 26000 New movies CDs = 58769 Eng. movies CDs = +660000Total CDs 744769

- 5. Amount earned
 - In 2001= ₹ 65821
 - In 2002 = +₹ 75938 In 2003 = +₹ 35897

Total amt. earned = $\frac{7.53657}{1.77656}$

6. Production of bicycle

In October =	7 0 0 0 0 0
In November =	85900
In March =	+935876
Pro. of 3 months	= 17 2 1 7 7 6

- 7. Bags of sugar in godown = 78500 Bags of wheat in godown = 96566 Total bags = 175066
- 8. Quantity of milk sold in

 1st week = 58760

 2nd week = + 63958

 3rd week = + 21000
- 9. Cost of a T.V set = ₹2 1 0 0 0 Cost of a Scooter = + ₹3 5 7 5 0 Total cost = ₹5 6 7 5 0

Total qty. of milk sold = 143718

- 10. No. of men = 6 5 7 8 3 9 No. of women = + 7 6 3 5 4 N. of children = + 20 6 0 Total population = 7 3 6 2 5 3
- 11. (a) Third candidate votes = 154969 + 45962 = 200931
 - (b) Fourth candidate votes =242482 + 22761 = 265243
 - (c) Maximum number of votes are got by fourth candidate.
 - (d) Total number of votes polled in election = 863625

MCQs:1.(c)2.(a)3.(d)4.(c)

Subtraction of Numbers Exercise - 4.1

TTh 1. (a) L Th Η T O

- (b) L TTh Th Η Τ
- (c) L TTh Th Η T
- L TTh Th Τ (d) Η
- 2. (a) 300958 (b) 10000 -9025 291933 (b) 975
 - $\begin{array}{r}
 \text{(c)} \quad 58763 \\
 \quad 9025 \\
 \hline
 49738
 \end{array}$
- 3. (a) 10000 (b) 9000 -8752 -8752 -248
 - $\begin{array}{r} \text{(c)} \quad 1\ 0\ 0\ 0\ 0\\ \quad 8\ 7\ 5\ 2\\ \hline \hline 9\ 1\ 2\ 4\ 8 \end{array}$
- 4. (a) TTh Th H T O 8 0 8 8 4 -1 6 5 3 2 6 4 3 5 2
 - (b) TTh Th Η T
 - (c) TTh Th Η Τ 5 5
- **5.** (a) L Th Η Τ TTh

(b)		L	TTh	Th	Η	T	Ο
		6	3	8	7	9	0
-	_	4	8	4	4	0	7
		1	5	4	3	8	3

Exercise - 4.2

- 1. Cost of a car = ₹215000Cost of motor cycle = ₹50000Difference = ₹165000
- 3. Smallest 6 digit no.= 100000 Greatest 5 digit no.= 99999 Difference = 000001
- 5. Length of wire = 85354 mCut off = -700 mRemaining wire = 84654 m
- 6. 835439- 50000- 785439 should be subtracted
- 7. Qty. of sugar in stock $\frac{1}{8}$ 5 0 0 0 kg Qty. of sugar sold = $\frac{-50354 \text{ kg}}{34646 \text{ kg}}$ Sugar left in stock = $\frac{34646 \text{ kg}}{34646 \text{ kg}}$
- 8. Amount deposited = ₹100000Amount withdrawn = -₹55600Balance amount = ₹44400
- 9. (a) The sale on Monday= ₹38568The sale on Tuesday = +₹31230Total = ₹69798(b) The sale on Tuesday= ₹31230The sale on Wednesday= +₹42923Total = ₹74153
 - (c) Sale on Monday = ₹3 8 5 6 8 Sale on Tuesday = $\overline{}$ ₹3 1 2 3 0 Difference = ₹7 3 3 8

(d) Sale on Wed. =	₹42923
Sale on Tue. =	<u>-₹31230</u>
Difference =	₹11693
(e)	₹ 38568
	+ ₹ 31230
	+ ₹ 42923
Total money =	₹112721
Total money =	₹112721
Worth of goods	
bought=	<u>-₹ 62265</u>
Money left =	₹ 50456
. Cost of motorcycle	= ₹35750

10. Cost of motorcycle = ₹35750Cost of VCR = +₹12550Cost of computer = +₹30250Transportation cost = +₹750Total money spent = ₹79300Money spent = -₹79300Balance amount left = ₹20290

Multiplication of Numbers Exercise - 5.1

- 1. (a) $78 \times 100 = 78 \times 1$ hundred = 7800
 - (b) $371 \times 100 = 371 \times 1$ hundred = 371 hundred = 37100
 - (c) $370 \times 100 = 370 \times 1$ hundred = 370 hundred = 37000
 - (d) $198 \times 200 = 198 \times 2$ hundred = 396 hundred = 39600
 - (e) $300 \times 375 = 375 \times 3$ hundred = 1125 hundred = 112500
 - (f) $627 \times 100 = 627 \times 1$ hundred = 62700
- 2. (a) $186 \times 4000 = 186 \times 4$ thousand = 744 thousand = 744000
 - (b) $44 \times 4000 = 44 \times 4$ thousand = 176 thousand = 176000
 - (c) $777 \times 4000 = 777 \times 4$ thousand = 3108 thousand = 3108000
 - (d) $273 \times 4000 = 273 \times 4$ thousand = 1092 thousand = 1092000

3. (a)
$$37 \times 100 = \boxed{3700}$$

(b) $\boxed{76} \times 1000 = 76000$
(c) $975 \times 200 = \boxed{195000}$
(d) $367 \times \boxed{20} = 7340$

(e)
$$575 \times 3 \times 100$$

= 1725×100
= 172500

(f)
$$3 \times 746 \times 270$$

= 2238×270
$$\begin{array}{r} 2 & 2 & 3 & 8 \\ \times & 2 & 7 & 0 \\ \hline 0 & 0 & 0 & 0 \\ 1 & 5 & 6 & 6 & 6 & \times \\ 4 & 4 & 7 & 6 & \times & \times \\ \hline 6 & 0 & 4 & 2 & 6 & 0 \\ \end{array}$$

5.

S. No.	Multiplicands	Multipliers	Products
(a)	375	240	90000
(b)	586	780	457080
(c)	3,940	29	114260
(d)	378	321	121338

Exercise - 5.2

1. Monthly fee of a student =
$$\underset{\text{i.e. 24 months}}{?} = \underset{\text{i.e. 24 months}}{?} = \underset{\text{a. 0 0}}{?} = \underset{\text{a. 0}}{?} = \underset{$$

mangoes =
$$1 \ 0.2 \ 7 \ 5 \ kg$$
Total boxes = $2 \ 7 \ 8 \ kg$
 $8 \ 2 \ 2 \ 0 \ 0$
 $7 \ 1 \ 9 \ 2 \ 5 \ \times$
Weight of $2 \ 8 \ 5 \ 6 \ 4 \ 5 \ 0 \ kg$

- 3. No. of books in an almirah = 437Total no. of books in 370 almirahs = $437 \times 370 = 161690$
- 4. Price of a notebook = ₹ 50 Price of 587 notebooks = 50×587 = ₹ 29350
- 5. Cloth sold in a day = 298.70 mCloth sold in Feb. 2004 (i.e. 29 days) = $298.70 \times 29 = 8662.30 \text{ m}$
- 6. Qty. of wheat in 1 bag = 40.370 kg Qty. of wheat in 225 bags = 40.370 $\times 225 = 9083.250$ kg
- 7. No. of passengers that can be carried in 1 round = 48

 No. of passengers that can be carried in 270 rounds = 48 × 270

 = 12960
- 8. Rows in garden = 72No. of plants in a row = 357Total plants = $72 \times 357 = 25704$

Exercise - 5.3

- 1. $9 \times 5 4 \times 3 + 2 \times 6$ = 45 - 12 + 12 = 57 - 12 = 45
- 2. $10 \times 6 3 \times 7 3 \times 3$ = 60 - 21 - 9 = 60 - 30 = 30
- 3. $105 3 \times 7 + 13 \times 7$ = 105 - 21 + 91 = 196 - 21 = 175
- 4. $11 \times 10 + 3 \times 6 8 \times 15$ = 110 + 18 - 120 = 128 - 120 = 8
- 5. Amount got after selling the fans = $120 \times 750 = \$90000$ Amount got after selling the radios = $30 \times 930 = \$27900$ Total amount got = \$90000 + \$27900 = \$117900

- **6.** Number of students = 532
 - Young boys = 310

Young girls =
$$\frac{310}{2}$$
 = 155

Children =
$$532 - 310 - 155$$

= $532 - 465$

= 67 MCQs: 1. (b) 2. (d) 3. (c) 4. (b)

Division of Numbers

Exercise – 6.1

- 1. (a) $56\overline{\smash{\big)}6783}$ (121 $56\overline{\smash{\big)}|}$ 118 $112\overline{\smash{\big)}}$ 63 $\underline{56}$ Quotient = 121
 - (b) $23\overline{\smash{\big)}\,2852}(124)$ $\begin{array}{r|c}
 \underline{23} \downarrow \\
 \hline
 55 \\
 \underline{46} \downarrow \\
 92 \\
 \underline{92} \\
 0
 \end{array}$ Quotient = 124
 Remainder = 0

Remainder = 7

- (c) 77)9185(119) $\begin{array}{r}
 77 \downarrow \\
 \hline
 148 \\
 77 \downarrow \\
 \hline
 715 \\
 \underline{693} \\
 22
 \end{array}$ Quotient = 199
 Remainder = 22
- (d) $47\overline{\smash{\big)}1786}$ (38 $141\sqrt[4]{376}$ $\frac{376}{0}$ Quotient = 38 Remainder = 0

- (e) 21) 966 (46) $84\sqrt{126}$ 126 0Quotient = 46
 Remainder = 0
- (f) $12\overline{\smash{\big)}1176}$ (98 $\overline{96}$ $\overline{96}$ Quotient = 98 $\overline{0}$ Remainder = 0
- 2. S. No. Dividend Divisor Quotient Remainder (a) 8732 23 379 15 (b) 49726 56 887 54 (c) 5478 39 140 18

Exercise - 6.2

81

6

23

1. (a) $78\overline{\smash{\big)}1315}$ (16 $78\sqrt[4]{535}$ 468 67 Quotient = 16 Remainder = 67

Check the answer

(d)

1869

Dividend = Quotient × Divisor + Remainder

$$1315 = 16 \times 78 + 67$$

$$1315 = 1248 + 67$$

1315 = 1315 which is true

Answer is correct

(b)
$$62\overline{\smash)4142}$$
 66
 $372\sqrt{422}$
 $\frac{372}{50}$ Quotient = 66
Remainder = 50

Check the answer

Dividend = Quotient × Divisor + Remainder

$$4142 = 66 \times 62 + 50$$

$$4142 = 4092 + 50$$

$$4142 = 4142$$
 which is true

Answer is correct

(c)
$$10)9829(982)$$

$$\begin{array}{r}
90 \downarrow \\
82 \\
80 \downarrow \\
\hline
29
\end{array}$$

$$\frac{20}{9}$$
 Quotient = 982
Remainder = 9

Check the answer

Dividend = Quotient × Divisor + Remainder

$$9829 = 982 \times 10 + 9$$

$$9829 = 9820 + 9$$

$$9829 = 9829$$
 which is true

Answer is correct

(d) 20)34345 (1717

$$\begin{array}{r|rrr}
 & 20 \downarrow & | \\
\hline
 & 143 & | \\
 & 140 \downarrow & | \\
\hline
 & 34 & | \\
 & 20 \downarrow & | \\
\hline
 & 145 & | \\
\hline
 & 140 & | \\
\hline
 & 5 & | Quotient = 1717 \\
\hline
 & Remainder = 5
\end{array}$$

Check the answer

Dividend = Quotient × Divisor + Remainder

$$34345 = 1717 \times 20 + 5$$

$$34345 = 34340 + 5$$

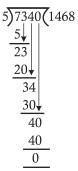
$$34345 = 34345$$
 which is true

Answer is correct

Exercise 6.3

1. No. of pencils Shalini wants to buy = 7340

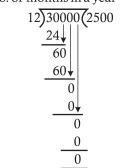
No. of pencils in one packet = 5



No. of packets = 1468

2. Earning of a man per year = 30,000

No. of months in a year = 12



Monthly income = ₹ 2500

3. No. of items manufactured in a month = 7500

No. of days in a month = 30 30/7500(250)

$$\begin{array}{c|c}
60 \downarrow \\
\hline
150 \\
150 \downarrow \\
\hline
0 \\
\hline
0 \\
\hline
0
\end{array}$$

No. of items manufactured per day = 250

4. Cost of 23 toys = ₹ 460

Cost of 1 toy =
$$\frac{460}{23}$$

Cost of 20 toys =
$$\frac{460}{23} \times 20$$

$$=20 \times 20 = 300$$

5. Weight of 45 persons = 2700 kg

Weight of 1 person =
$$\frac{2700}{45}$$
 = 60 kg

Simplifications

Exercise - 7.1

- 1. (a) $570-220 \div 10$ = 570-22 = 548
 - (b) $72 + 48 \div 8$

$$= 72 + 6 = 78$$

- (c) $4200 \div 35 + 5834 250$ = 120 + 5834 - 250
 - =5954-250=5704
- (d) $327 \times 25 \div 5 + 80$
 - $= 327 \times 5 + 80$
 - = 1635 + 80 = 1715
- (e) 78560 20340 + 30080 3333
 - =108640-23673
 - = 84967
- (f) 3587 + 45893 28340
 - =49480-28340
 - =21140

Exercise - 7.2

- 1. (a) $24 \times 6 \div 3$ (b) $48 \div 8 3$ = 24×2 = 6 - 3
 - = 48 = 3 (c) $36 \times 6 \div 2$ (d) $81 \div 9 + 9$
 - $= 36 \times 3$ = 9 + 9 = 108 = 18
 - (e) $40 \div 4 20 \times 2 + 9$ of $4 \div 3 + 25$ = $40 \div 4 - 20 \times 2 + 36 \div 3 + 25$
 - =10-40+12+25
 - =47-40=7
 - (f) $6+8 \div 2-3 \times 2+10 \text{ of } 2 \div 4$ = $6+8 \div 2-3 \times 2+20 \div 4$
 - =6+4-6+5
 - =15-6=9
 - (g) $1400 \div 200 \times 300$
 - $= 7 \times 300 = 2100$
 - (h) $121 \div 11 \times 11$ of $5-6 \times 9 + 120 \div 40$

- $=121 \div 11 \times 55 6 \times 9 + 120 \div 40$
- $=11 \times 55 6 \times 9 + 3$
- =605-54+3
- =608-54=554
- (i) $400 \div 100 \text{ of } 2 \times 3 + 18 9$

$$=400 \div 200 \times 3 + 18 - 9$$

- $=2 \times 3 + 18 9$
- =6+18-9
- =24-9=15
- (j) $255 \text{ of } 5 \div 5 \times 9 + 8 3$

$$= 1275 \div 5 \times 9 + 8 - 3$$

- $=255 \times 9 + 8 3$
- =2295+8-3
- =2303-3=2300

Exercise - 7.3

1. Population of town = 178952

Population of men = 70000

Population of woman

$$=\frac{70000}{2}=35000$$

Total population of men and

$$women = 700000 + 350000 \hline 105000$$

Number of children

$$= 178952 - 105000 = 73952$$

2. Price of one table = 3425

Price of 320 tables = 425×320 = ₹136000

Price of one chair =₹420

Price of 48 chairs = 420×48 = ₹20160

₹136000

<u>+₹ 20160</u>

Hence, the cost of $\boxed{156160}$ 320 tables and 48 chairs is 156160.

3. Price of 1 cycle =₹900

Price of 45 cycles $= 900 \times 45$

=₹40500

Price of 1 scooter =₹25000

Price of 70 scooters = 70×25000 = ₹ 1750000

Hence, total cost $\stackrel{\text{$\neq$}}{=} 1790500$ of cycle and scooters is $\stackrel{\text{$\neq$}}{=} 1790500$.

4. Cost of a bicycle = ₹845

Cost of a scooter = ₹845 × 19 = ₹ 16055

Cost of motorcycle= ₹(16055+2242)

=₹18297

Cost of 2 bicycles = 2×845

=₹1690

Cost of 3 scooters = 3×16055

=₹48165

Cost of 2 motorcycles = 2×18297

=₹36594

Total cost = ₹86449

MCQs: 1. (b) 2. (b) 3. (d)

Multiples and Factors Exercise - 8.1

- (a) First four multiples of 4 = 4, 8, 12, 16
- (b) First five multiples of 9 = 9, 18, 27, 36, 45
- (c) First three multiples of 13 = 13, 26, 39,
- (d) Seventh multiples of $15 = 15 \times 7$ = 105
- (e) Third multiple of $28 = 28 \times 3 = 84$
- (f) Multiple of 6 greatest than 24 but less than 48 = 30, 36, 42

Exercise - 8.2

- 1. Factor of 18 = 6, 9, 3, 1, 18
- **2.** Factor of 42 = 1, 3, 2, 6, 7, 42
- 3. Factor of 15 = 1, 3, 5, 15
- 4. (a) $164 = 2 \times 2 \times 41$
 - (b) $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$
 - (c) $75 = 3 \times 5 \times 5$
 - (d) $264 = 2 \times 2 \times 2 \times 3 \times 11$

Exercise 8.3

- 1. All even numbers between 9 and 33 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32
- **2.** (a) **105**, 106, **107** (b) **727**, 729, **731**
 - (c) **5027**, 5029, **5031**
 - (d) 6999, 7000, 7001
- 3. (a) 106, 107, 108 (b) 318, 320, 322 (c) 5028, 5030, 5032
 - (d) **1998**, 2000, **2002**
- 4. Smallest even number = 2
- 5. Greatest 4-digit even no. = 9998
- **6.** The smallest 2-digit odd no. = 11
- 7. Greatest 3-digit odd number = 999

Exercise - 8.4

- 1. Divisible by 6 = 1566, 5544, 40872
- 2. Divisible by 9 = 7884, 60309, 1782
- 3. (a) 7 = 14, 21, 28 (b) 5 = 10, 15, 20 (c) 16 = 32, 48, 64
- 4. (a) Between 20 and 30 = 23, 29
 - (b) Between 30 and 40 = 31, 37
- 5. (a) Between 25 and 35 = 26, 28, 30, 32, 34
 - (b) Between 50 and 60= 52, 54, 56, 58

H.C.F. and L.C.M. Exercise - 9.1

- 1. (a) $36 = 2 \times 2 \times 3 \times 3$ $108 = 2 \times 2 \times 3 \times 3 \times 3$ H.C.F. $= 2 \times 2 \times 3 \times 3 = 36$
 - (b) $15 = 3 \times 5$ $35 = 7 \times 5$
 - H.C.F. = 5
 - (c) $36 = 2 \times 2 \times 3 \times 3$ $81 = 3 \times 3 \times 3 \times 3$
 - H.C.F. = $3 \times 3 = 9$
 - $(d) 28 = 2 \times 2 \times 7$
 - $36 = 2 \times 2 \times 3 \times 3$
 - $H.C.F. = 2 \times 2 = 4$
 - (e) $9 = 3 \times 3$

$$72 = 3 \times 3 \times 2 \times 2 \times 2$$

$$18 = 3 \times 3 \times 2$$

H.C.F. =
$$3 \times 3 = 9$$

(f)
$$16 = 2 \times 2 \times 2 \times 2$$

$$24 = 2 \times 2 \times 2 \times 3$$

$$20 = 2 \times 2 \times 5$$

$$H.C.F. = 2 \times 2 = 4$$

(g)
$$56 = 2 \times 2 \times 2 \times 7$$

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$H.C.F. = 2 \times 2 \times 2 = 8$$

(h)
$$9 = 3 \times 3$$

$$72 = 3 \times 3 \times 2 \times 2 \times 2$$

H.C.F. =
$$3 \times 3 = 9$$

2. (a) 17, 35 (c) 36, 55 (f) 25, 24

Exercise - 9.2

1. (a) 72, 90 2 72 2 90 2 36 3 45 2 18 3 9 5 5 3 3 1

$$72 = 2 \times 2 \times 2 \times 3 \times 3$$

$$90 = 2 \times 3 \times 3 \times 5$$

$$H.C.F. = 2 \times 3 \times 3 = 18$$

We can check by dividing numbers by the H.C.F.

$$72 \div 18 = 4$$

$$90 \div 18 = 5$$

Hence, the answer is correct

(b) 70,60

	2	7 0	2	60
	5	3 5	2	3 0
	7	7	3	1 5
		1	5	5
<	7	-		1

$$70 = 2 \times 5 \times 7$$

$$60 = 2 \times 2 \times 3 \times 5$$

$$H.C.F. = 2 \times 5 = 10$$

We can check by dividing numbers by the H.C.F.

$$70 \div 10 = 7$$

$$60 \div 10 = 6$$

Hence, the answer is correct.

$$35 = 5 \times 7$$

$$70 = 5 \times 7 \times 2$$

H.C.F. =
$$5 \times 7 = 35$$

We can check by dividing numbers by the H.C.F.

$$35 \div 35 = 1$$

$$70 \div 35 = 2$$

Hence, the answer is correct.

2. (a) 36, 24, 48

$$36 = 2 \times 2 \times 3 \times 3$$

$$24 = 2 \times 2 \times 2 \times 3$$

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

$$H.C.F. = 2 \times 2 \times 3 = 12$$

$$62 = 2 \times 31$$

$$60 = 2 \times 2 \times 3 \times 5$$

$$80 = 2 \times 2 \times 2 \times 2 \times 5$$

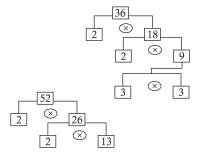
$$H.C.F. = 2$$

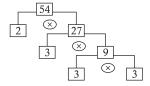
$$36 = 2 \times 2 \times 3 \times 3$$

$$55 = 11 \times 5$$

$$H.C.F. = 1$$

3. 62 × 21





Exercise - 9.3

3

3

L.C.M. =
$$2 \times 2 \times 2 \times 2 = 16$$

L.C.M. = $2 \times 2 \times 2 \times 3 = 24$

L.C.M. =
$$2 \times 2 \times 2 \times 2 \times 3 \times 3$$

= 144

L.C.M. =
$$5 \times 5 \times 3 \times 2 = 150$$

L.C.M. =
$$2 \times 2 \times 3 \times 3 = 36$$

L.C.M. =
$$2 \times 3 \times 7 = 42$$

$$L.C.M. = 2 \times 2 \times 5 \times 3 \times 5 = 300$$

$$L.C.M. = 2 \times 2 \times 2 \times 2 \times 5 = 80$$

Exercise - 9.4

L.C.M. =
$$2 \times 2 \times 2 \times 3 \times 3 = 72$$

So, minimum capacity of water tank is 72 litres.

3.
$$108 = 2 \times 2 \times 3 \times 3 \times 3$$

$$184 = 2 \times 2 \times 2 \times 23$$

 $164 = 2 \times 2 \times 41$ H.C.F. = $2 \times 2 = 4$

4. L.C.M. =
$$\frac{\text{Product of two numbers}}{\text{H.C.F.}}$$
L.C.M. =
$$\frac{24}{2} = 12$$

5.
$$12 = 2 \times 2 \times 3$$
 $18 = 2 \times 3 \times 3$ $24 = 2 \times 2 \times 3 \times 2$

H.C.F. = $2 \times 3 = 6$ Maximum length of each piece is 6 m.

5 | 15, 20, 30

L.C.M. =
$$5 \times 2 \times 2 \times 3 = 60$$
 min.
= 1 hour

So, the bells will ring together at (10+1) i.e., 11 a.m.

Fractional Numbers

Exercise - 10.1

- 1. (a) $\frac{1}{2}$
 - (c) $\frac{3}{2}$
 - (d) $\frac{1}{2}$
- 2. (a) $\frac{1}{5}$ (b) $\frac{3}{17}$ (c) $\frac{19}{47}$ (d) $\frac{7}{28} = \frac{1}{4}$
- 3. (a) $\frac{2}{15}$ Numerator Denominator
 - (b) $\frac{3}{18}$ Numerator Denominator
 - (c) 11 Numerator
 Denominator
 (d) 19 Numerator
 Denominator
 Denominator
- 4. (a) $\frac{1}{3} \le \frac{6}{3}$ (b) $\frac{1}{2} > \frac{1}{4}$ (c) $\frac{6}{9} \leq \frac{9}{9}$

Exercise - 10.2

- 1. (a) $\frac{3 \times 2}{5 \times 2} = \frac{6}{10}, \frac{3 \times 3}{5 \times 2} = \frac{9}{15}, \frac{3 \times 4}{5 \times 4} = \frac{12}{20}$
 - (b) $\frac{2 \times 2}{7 \times 2} = \frac{4}{14}, \frac{2 \times 3}{7 \times 3} = \frac{6}{21}, \frac{2 \times 4}{7 \times 4} = \frac{8}{28}$
 - (c) $\frac{3\times2}{8\times2} = \frac{6}{16}, \frac{3\times3}{8\times3} = \frac{9}{24}, \frac{3\times4}{8\times4} = \frac{12}{32}$

- (d) $\frac{26 \times 2}{40 \times 2} = \frac{52}{80}, \frac{26 \times 3}{40 \times 3} = \frac{78}{120}, \frac{26 \times 4}{40 \times 4} = \frac{104}{160}$
- (e) $\frac{12 \times 2}{19 \times 2} = \frac{24}{38}, \frac{12 \times 3}{19 \times 3} = \frac{36}{57}, \frac{12 \times 4}{19 \times 4} = \frac{48}{76}$
- (f) $\frac{13 \times 2}{17 \times 2} = \frac{26}{34}, \frac{13 \times 3}{17 \times 3} = \frac{39}{51}, \frac{13 \times 4}{17 \times 4} = \frac{52}{68}$
- 2. (a) $\frac{3 \times 2}{4 \times 2} = \frac{\boxed{6}}{\cancel{8}}$ (b) $\frac{3 \times 3}{7 \times 3} = \frac{9}{\boxed{21}}$
 - (c) $\frac{4 \times 3}{15 \times 3} = \frac{\boxed{12}}{45}$ (d) $\frac{3 \times 9}{9 \times 9} = \frac{\boxed{27}}{81}$
 - (e) $\frac{3 \times 4}{5 \times 4} = \frac{12}{20}$ (f) $\frac{5 \times 5}{7 \times 5} = \frac{25}{35}$
- 3. (a) $\frac{4}{8} = \frac{12}{24}$ (c) $\frac{12}{26} = \frac{6}{13}$
 - (d) $\frac{7}{36} = \frac{28}{144}$ (e) $\frac{5}{15} = \frac{1}{3}$
- **4.** (a) $\frac{6}{8}$ (b) $\frac{15}{20}$ (c) $\frac{12}{16}$ (d) $\frac{15}{20}$

Exercise - 10.3

- 1. (a) $\frac{\cancel{14}}{\cancel{2}\cancel{k}} = \frac{2}{\cancel{3}}$ (b) $\frac{\cancel{42}}{\cancel{46}} = \frac{21}{\cancel{23}}$
 - (c) $\frac{27}{36} = \frac{3}{4}$ (d) $\frac{10}{18} = \frac{5}{9}$
 - (e) $\frac{\cancel{40}}{\cancel{144}} = \frac{5}{\cancel{18}}$ (f) $\frac{\cancel{35}}{\cancel{120}} = \frac{7}{\cancel{24}}$
- 2. (a) 6 hours is $\frac{6}{24} = \frac{1}{4}$ of a day (24)
 - (b) 3 months is $\frac{3}{12} = \frac{1}{4}$ of one year (12)
 - (c) 30 sec. is $\frac{30}{120} = \frac{1}{4}$ of two
 - (d) 60 paise is $\frac{60}{100} = \frac{\sin{(120)}}{5}$ of a rupee (100 paise)

Exercise - 10.4

1. Proper fractions: (e) $\frac{100}{152}$

Improper fractions: (a) $\frac{19}{17}$

(b) $\frac{216}{25}$ (c) $\frac{29}{17}$ (d) $\frac{160}{97}$

2. Like fractions:

(a)
$$\frac{3}{7}$$
, $\frac{4}{7}$, $\frac{2}{7}$, $\frac{1}{7}$, $\frac{5}{7}$

(b)
$$\frac{1}{9}$$
, $\frac{3}{9}$, $\frac{2}{9}$, $\frac{5}{9}$, $\frac{4}{9}$

Unlike fractions:

(c)
$$\frac{3}{1}$$
, $\frac{3}{4}$, $\frac{3}{7}$, $\frac{3}{5}$, $\frac{3}{9}$

(d)
$$\frac{2}{6}$$
, $\frac{2}{3}$, $\frac{4}{1}$, $\frac{2}{5}$, $\frac{3}{4}$

3. (a)
$$\frac{9}{4} = 2\frac{1}{4}$$
 (b) $\frac{3}{2} = 1\frac{1}{2}$

(c)
$$\frac{11}{3} = 3\frac{2}{3}$$

4. (a)
$$2\frac{1}{5} = \frac{2 \times 5 + 1}{5} = \frac{11}{5}$$

(b)
$$3\frac{2}{4} = \frac{4 \times 3 + 2}{4} = \frac{14}{4}$$

(c)
$$2\frac{5}{7} = \frac{2 \times 7 + 5}{7} = \frac{19}{7}$$

(d)
$$2\frac{4}{5} = \frac{2 \times 5 + 4}{5} = \frac{14}{5}$$

(e)
$$2\frac{4}{9} = \frac{2 \times 9 + 4}{9} = \frac{22}{9}$$

(f)
$$2\frac{7}{8} = \frac{2 \times 8 + 7}{8} = \frac{23}{8}$$

5. (a)
$$\frac{4}{25}$$
; Reciprocal = $\frac{25}{4}$

(b)
$$\frac{33}{12}$$
; Reciprocal = $\frac{12}{33}$

(c)
$$\frac{51}{100}$$
; Reciprocal = $\frac{100}{51}$

(d)
$$\frac{72}{71}$$
; Reciprocal = $\frac{71}{72}$

(e)
$$\frac{7}{9}$$
; Reciprocal = $\frac{9}{7}$

(f)
$$\frac{99}{121}$$
; Reciprocal = $\frac{121}{99}$

Exercise - 10.5

1. (a)
$$\frac{2}{4}$$
, $\frac{2}{8}$, $\frac{4}{5}$, $\frac{3}{4}$

$$2 \times 2 \times 2 \times 5 = 40$$

$$\frac{2}{4}$$
 \rightarrow 40 \div 4 = 10 = $\frac{2 \times 10}{4 \times 10}$ = $\frac{20}{40}$

$$\frac{2}{8} \rightarrow 40 \div 8 = 5 = \frac{2 \times 5}{8 \times 5} = \frac{10}{40}$$

$$\frac{4}{5} \rightarrow 40 \div 5 = 8 = \frac{4 \times 8}{5 \times 8} = \frac{32}{40}$$

$$\frac{3}{4} \to 40 \div 4 = 10 = \frac{3 \times 10}{4 \times 10} = \frac{30}{40}$$

Ascending order
$$\rightarrow \frac{10}{40}, \frac{20}{40}, \frac{30}{40}, \frac{32}{40}$$

$$\frac{2}{8}$$
, $\frac{2}{4}$, $\frac{3}{4}$, $\frac{4}{5}$

(b)
$$\frac{3}{6}$$
, $\frac{1}{4}$, $\frac{4}{5}$, $\frac{2}{3}$

$$\begin{array}{r}
2 & 6, 4, 5, 3 \\
\hline
2 & 3, 2, 5, 3 \\
\hline
3 & 3, 1, 5, 3 \\
\hline
5 & 1, 1, 5, 1 \\
\hline
1, 1, 1, 1
\end{array}$$

L.C.M. =
$$2 \times 2 \times 3 \times 5 = 60$$

$$\frac{3}{6} \to 60 \div 6 = 10 = \frac{3 \times 10}{6 \times 10} = \frac{30}{60}$$

$$\frac{1}{4} \rightarrow 60 \div 4 = 15 = \frac{1 \times 15}{4 \times 15} = \frac{15}{60}$$

$$\frac{2}{3} \rightarrow 60 \div 3 = 20 = \frac{2 \times 20}{3 \times 20} = \frac{40}{60}$$

$$\frac{4}{5} \rightarrow 60 \div 5 = 12 = \frac{4 \times 12}{5 \times 12} = \frac{48}{60}$$

Ascending order
$$\rightarrow \frac{15}{60}, \frac{30}{60}, \frac{40}{60}, \frac{48}{60}$$

 $\frac{1}{4}, \frac{3}{6}, \frac{2}{3}, \frac{4}{5}$

(c)
$$\frac{3}{7}, \frac{2}{6}, \frac{1}{9}, \frac{7}{18}$$

$$\frac{2 | 7, 6, 9, 18}{3 | 7, 3, 9, 9}$$

$$\frac{3 | 7, 1, 3, 3}{7 | 7, 1, 1, 1}$$
L.C.M. = $2 \times 3 \times 3 \times 7 = 126$

$$\frac{3}{7} \rightarrow 126 \div 7 = 18 = \frac{3 \times 18}{7 \times 18} = \frac{54}{126}$$

$$\frac{2}{6} \rightarrow 126 \div 6 = 21 = \frac{2 \times 21}{6 \times 21} = \frac{42}{126}$$

$$\frac{1}{9} \rightarrow 126 \div 9 = 14 = \frac{1 \times 14}{9 \times 14} = \frac{14}{126}$$

$$\frac{7}{18} \rightarrow 126 \div 18 = 7 = \frac{7 \times 7}{18 \times 7} = \frac{49}{126}$$
Descending order $\rightarrow \frac{14}{126}, \frac{42}{126}, \frac{49}{126}, \frac{54}{126}$

$$\frac{1}{9}, \frac{2}{6}, \frac{7}{18}, \frac{3}{7}$$
2. (a) $\frac{1}{4}, \frac{1}{3}, \frac{3}{6}, \frac{3}{15}$

$$\frac{2 | 4, 3, 6, 15}{2 | 2, 3, 3, 15}$$

$$\frac{3 | 1, 3, 3, 15}{3 | 1, 1, 1, 5}$$
L.C.M. = $2 \times 2 \times 3 \times 5 = 60$

$$\frac{1}{4} \rightarrow 60 \div 4 = 15 = \frac{1 \times 15}{4 \times 15} = \frac{15}{60}$$

$$\frac{1}{3} \rightarrow 60 \div 3 = 20 = \frac{1 \times 20}{3 \times 20} = \frac{20}{60}$$

$$\frac{3}{6} \rightarrow 60 \div 6 = 10 = \frac{3 \times 10}{6 \times 10} = \frac{30}{60}$$

$$\frac{3}{15} \rightarrow 60 \div 15 = 4 = \frac{3 \times 4}{15 \times 4} = \frac{12}{60}$$
Ascending order $\rightarrow \frac{30}{60}, \frac{20}{60}, \frac{15}{60}, \frac{12}{60}$

$$\frac{3}{6}, \frac{1}{3}, \frac{1}{4}, \frac{3}{15}$$
(b) $\frac{1}{8}, \frac{3}{5}, \frac{4}{18}, \frac{9}{16}$

L.C.M. =
$$2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5 = 720$$

 $\frac{1}{8} \rightarrow 720 \div 8 = 90 = \frac{1 \times 90}{8 \times 90} = \frac{90}{720}$
 $\frac{3}{5} \rightarrow 720 \div 5 = 144 = \frac{3 \times 144}{5 \times 144} = \frac{432}{720}$
 $\frac{4}{18} \rightarrow 720 \div 18 = 40 = \frac{4 \times 40}{18 \times 40} = \frac{160}{720}$
 $\frac{9}{16} \rightarrow 720 \div 16 = 45 = \frac{9 \times 45}{16 \times 45} = \frac{405}{720}$
Descending order $\rightarrow \frac{432}{720}, \frac{405}{720}, \frac{160}{720}, \frac{90}{720}$
(c) $\frac{3}{5}, \frac{9}{16}, \frac{4}{18}, \frac{1}{8}$
 $\frac{2}{6}, 4, 8, 4$

(c)
$$\frac{1}{6}$$
, $\frac{3}{4}$, $\frac{5}{8}$, $\frac{2}{4}$

$$\begin{array}{r} 2 & 6, 4, 8, 4 \\ \hline 2 & 3, 2, 4, 2 \\ \hline 2 & 3, 1, 2, 1 \\ \hline 3 & 3, 1, 1, 1 \\ \hline & 1, 1, 1, 1 \end{array}$$

L.C.M. =
$$2 \times 2 \times 2 \times 3 = 24$$

 $\frac{1}{6} \rightarrow 24 \div 6 = 4 = \frac{1 \times 4}{6 \times 4} = \frac{4}{24}$
 $\frac{3}{4} \rightarrow 24 \div 4 = 6 = \frac{3 \times 6}{4 \times 6} = \frac{18}{24}$
 $\frac{5}{8} \rightarrow 24 \div 8 = 3 = \frac{5 \times 3}{8 \times 3} = \frac{15}{24}$
 $\frac{2}{4} \rightarrow 24 \div 4 = 6 = \frac{2 \times 6}{4 \times 6} = \frac{12}{24}$
 $\frac{18}{24}, \frac{15}{24}, \frac{12}{24}, \frac{4}{24}$

Descending order $\rightarrow \frac{3}{4}, \frac{5}{8}, \frac{2}{4}, \frac{1}{6}$

3. (a) $\frac{3}{5} > \frac{1}{5}$ (b) $\frac{2}{9} < \frac{5}{9}$ (c) $\frac{9}{17}$, $\frac{9}{15} = \frac{9 \times 15}{17 \times 15}$, $\frac{9 \times 17}{15 \times 17}$ = $\frac{135}{255} < \frac{153}{255} = \frac{9}{17} < \frac{9}{15}$

SCIENCE

1. Green Plants- The Food Factory

- **A.** 1. a 2. c 3. c 4. b 5. a
- **B.** 1. plants 2. chlorophyll 3. veins 4. Stomata 5. food
- C. 1. \(2. \times 3. \(\sqrt{4}, \times 5. \times \)
- D. 1. Leaves of plants pigment called chlorophyll. 2. The process of making is called photosynthesis. 3. Leaves prepare food for food for the plant. 4. The stem and branches even in the flowers. 5. All living organisms depend on each other.

Reasoning Time

Yellow leaves don't have chloroplasts without which a plant cannot make its food.

2. Adaptation in Plants

- **A.** 1. b 2. c 3. c 4. c 5. b
- **B.** 1. \times 2. \checkmark 3. \checkmark 4. \checkmark 5. \times

Reasoning Time

1. The pitcher plants capture their prey by means of passive traps called pitfall traps. The traps are specialize leaves that have developed into tubes. There is sweet nectar at the base of the cap that attracts the insects. 2. They are present in hot deserts which are scarce in water so in order to reduce the loss of water by transpiration from the surface of the leaves, its leaves are reduced to spines. This is a type of adaptation in these plants.

3. Animals: Increasing the Numbers

- A. 1. b 2. a 3. a 4. b
- **B.** 1. c 2. e 3. a 4. b 5. d
- **C.** 1. tadpole 2. embryo 3. caterpillar 4. social
- **D.** 1. The kind or race will die out.
 - 2. To give warmth to eggs. 3. All insects develop becomes one adult. 4. Egg, larva, pupa, adult 5. By feeding and teaching them.

Reasoning Time

It means that there is no development of chick.

4. Animals : Different Ways of Living

- A. 1. b 2. b 3. a 4. a 5. a
- **B.** 1. Dinosaurs 2. invertebrates
 - 3. Scorpions, spiders 4. camel 5. abdomen 6. gills
- C. 1. b 2. d 3. a 4. e 5. c
- **D.** 1. Vertebrate, because we have a backbone. 2. A plant or an animal called adaptation. 3. Well developed tearing teeth. 4. Because

dolphins take breath by lungs. 5. by crawling 6. Because they have claws and from slipping.

Reasoning Time

Camels are well known for their humps. Their humps are reservoir of fatty tissue, while water is stored in their blood. However, when this tissue is metabolised, it is not only a source of energy, but yields through reaction with oxygen from the air 1111 g of water per 1000 g of fat converted. This allows them to survive without water for about two weeks, and without food for up to a month.

5. Food and Its Digestion

- **A.** 1. a 2. b 3. a 4. b 5. b
- B. 1. Proteins 2. Carbohydrates
 - 3. Saliva 4. Small intestine
 - 5. Digestion

Reasoning Time

Children need proteins so that they can grow in a good way. They require proteins for growing bones.

6. Our Teeth

- A. 1, b 2, b 3, b 4, b 5, b
- **B.** 1. four 2. pulp 3. plague 4. dentine 5. milk teeth
- $\mathbf{C.} \ 1. \ \checkmark \ 2. \ \times \ 3. \ \checkmark \ 4. \ \checkmark \ 5. \ \checkmark$
- **D.** 1. A tooth has mainly and the root. 2. Tooth decay ruins becomes black. 3. There are four

- main along sides.
- 4. So that they can crack hard food.
- 5. To prevent tooth decay.

Reasoning Time

1. Regular brushing and cleaning of teeth helps to keep our teeth and gums healthy. 2. Cavity

SOCIAL SCIENCE

1. Incredible India

- **A.** 1. a 2. b 3. a 4. b 5. b 6. c
- **B.** 1. seventh 2. Indian Rupee
 - 3. Arabian 4. oldest 5. Hockey
- **C.** 1. d 2. e 3. a 4. c 5. b
- **D.** 1. ✓ 2. × 3. × 4. ✓ 5. ×
- E. 1. a. The Himalayan Mountains b. The Northern Plains c. The Eastern and Western Coastal Plains d. The Peninsular or Deccan Plateau e. The Thar Desert f. The Islands 2. Afghanistan, Pakistan, Bangladesh, Nepal, Bhutan, Sri Lanka, China, Maldives and Myanmar 3. 28 and 9 4. a. Andaman and Nicobar Islands b. Chandigarh c. Dadar and Nagar Haveli d. Daman and Diu e. National Capital Territory of Delhi f. Lakshadweep Islands g. Andaman and Nicobar Islands h. Jammu & Kashmir i. Ladakh 5. National symbols of India represent the country's cultural and geographical diversity.

IQ Question

Because Union Territories are governed directly by the Central Government.

2. The Northern Mountains

A. 1. a 2. b 3. c 4. a 5. a 6. a

- B. 1. northern 2. parallel
 - 3. northernmost 4. Glaciers
 - 5. Himalayas, south 6. wildlife
- C. 1. Himadri, Himachal and Shivalik. 2. The word Himalayas means of Arunachal Pradesh. 3. Glaciers are huge slopes. 4. Due to cold throughout the year. 5. The Himachal range has some beautiful and Darjeeling. 6. The Greater Himalayan Range is the number of glaciers.

IQ Questions

- 1. They form a natural boundary the mainland.
- 2. Do yourself

3. The Northern Plains

- **A.** 1, c 2, c 3, b 4, a
- **B.** 1. Yamuna 2. alluvium 3. Sutlej 4. Gangotri Glacier 5. Yamuna
- C. 1. F 2. T 3. T 4. T 5. T 6. T
- D. 1. The Gomti, the Yamuna, the Ramganga, the Gandak, the Kosi, etc. 2. Punjab, Haryana, Delhi, Uttarakhand, Uttar Pradesh, etc. 3. The area drained by a river and its tributaries is called a basin. 4. These rivers are perennial, as they summer season. 5. A delta is a wetland area that forms as river water empty into a larger body of water.

IQ Questions

- 1. They are used for transportation, power generation, flood control and water supply.
- 2. Because the state of Assam is the world's largest tea-growing region.

4. The Western Desert

- **A.** 1. a 2. a 3. a 4. b
- **B.** 1. Aravalli 2. Sutlej 3. Sahara Desert 4. camel 5. oasis
- **C.** 1. ✓ 2. × 3. ✓ 4. × 5. ×
- D. 1. The Thar Desert 2. Due to scarcity of water and scorching heat, there is no forest in the desert. 3. At some places is known as an oasis. 4. It is a big into a granary. 5. Camel is very useful ship of the desert.

IQ Questions

- 1. Desert temperatures during the day are very high; the sun's rays beat down and heat the ground surface. It is very hot in the day and is very cold at night because there are no clouds to keep the ground shaded by day or to trap the heat at night.
- 2. Do yourself.

5. The Deccan Plateau

- A. 1.b2.c3.a4.a
- B. 1. Malwa Plateau
 - 2. North-Western Plateau
 - 3. Narmada, Tapti 4. Karnataka
 - 5. Jog Falls
- C. $1. \times 2. \checkmark 3. \times 4. \checkmark 5. \checkmark$
- **D.** 1. To the south of the Northern Plains 2. The Krishna, Kaveri and Pennar. 3. Coal, iron ore, manganese, bauxite and mica. 4. towards the Ganga system.

IQ Questions

1. Because it is an area of highland, usually consisting of relatively flat terrain. 2. Do yourself.

6. The Coastal Plains and the Islands

- **A.** 1, a 2, a 3, b
- B. 1. Kerala 2. Kandla
 - 3. Coromandel 4. Kavaratti
- C. 1. x 2. ✓ 3. x 4. ✓
- D. 1. India has a long coastline

 Coastal Plains. 2. The Eastern coastal plain lies Coastal Plain. 3. The Mahanadi, Godavari and Krishna. 4. The coastal plains one trade in the country.

IQ Questions

1. Lighthouses are built along coasts to pass signal to passing ships. 2. Because through ports goods are imported and exported.

7. The Climate of India

- **A.** 1. a 2. a 3. a 4. b
- **B.** 1. \times 2. \checkmark 3. \checkmark 4. \times
- C. 1. (a) Latitudinal extent
- (b) Altitude (c) Distance from the sea (d) Direction of mountains
 - (e) Surface winds 2. Monsoon is a type of climate. As monsoon the country. 3. Do yourself. 4. Hot and dry winds.

IQ Questions

1. Indian agriculture is highly dependent on monsoon due to lack of improper handling of irrigation resources. 2. In different seasons, we wear different types of cloth and eat different types of food.

8. Forest Wealth

- A. 1.c2.a3.b4.a
- B. 1.Deciduous 2. Evergreen
 - 3. Mountain 4. Tidal 5. thorny
- **C.** $1. \checkmark 2. \times 3. \checkmark 4. \checkmark 5. \checkmark$

- **D.** 1. Forest is a dense growth of trees on its own. 2. Because it adversely affects our environment.
 - 3. Chipko Movement is to save forests from being cut down. 4. To conserve our wildlife.

IQ Questions

- 1. Because many wild animals are facing the danger of extinction.
- 2. Because they provide oxygen and many useful things.

9. Water Resources

- A. 1.b2.c3.c4.b5.c6.a
- B. 1. Northern India
 - 2. Southern India
 - 3. floods, famines 4. Sutlej
 - 5. Hirakud
 - 6. 'Temples of Modern India'.
- C. $1. \checkmark 2. \times 3. \times 4. \checkmark 5. \checkmark$
- **D.** 1.b 2.c 3.d 4.e 5.f 6.a

IQ Questions

- 1. Do yourself.
- 2. To stop or check the flow of water and can serve many purposes.

GENERAL KNOWLEDGE

1. Plants: A Boon

- 1. Cinnamon 2. Mint 3. Coconut
 - 4. Ginger 5. Onion 6. Tulsi
 - 7. Sandalwood 8. Neem

2. From the World of Animals

- 1. Hummingbird 2. Emu 3. Frog
 - 4. rhinoceros 5. Gentoo penguin
 - 6. peregrine falcon 7. kangaroo
 - 8. woodcock 9. Komodo dragon 10. Eel

3. Vegetative Products

- 1.(B) 2.(D) 3.(A) 4.(E) 5.(C)
 - 4. Vegetative Environment
- 1. vine yard 2. orchard 3. field
- 4. nursery 5. garden 6. jungle

5. Ecology

- 1. ✓ 2. × 3. ✓ 4. × 5. × 6. × 7. ✓
 - 8. 19. 10. 1

6. Natural Conservation

- 1. a. Cheetah b. Antelope
 - 2. Tiger's paws mark
 - 3. a. National Park
 - b. Wildlife Sanctuary
 - 4. Madhya Pradesh 5. Bharatpur Bird Sanctuary, Rajasthan
 - 6. Chipko Movement
 - 7. Narmada Bachao Andolan
 - 8. Moneka Gandhi

7. Name of Countries/Territories

- 1. India 2. America 3. Canada
- 4. Australia 5. Switzerland 6. Paris
 - 7. Brazil 8. Finland 9. Japan
 - 10. Japan

8. Symbols of Nations

- 1. Australia 2. India 3. Britain
 - 4. Pakistan 5. Spain
 - 6. New Zealand

9. Turn of the Food

 1. Pizza 2. Roti 3. Dosa 4. Rajma-Chawal 5. Tandoori chicken 6. Chowmein 7. Pasta 8. Dal-baati 9. Chole bhature

10. Countries and Capitals

- 1. (i) 2. (j) 3. (a) 4. (d) 5. (b) 6. (g)
 - 7. (c) 8. (h) 9. (e) 10. (f) 11. (n) 12. (k) 13. (o) 14. (l) 15. (m)

11. Famous Cities

- **A.** 1. Srinagar 2. Amritsar
 - 3. Chandigarh
- 4. Kolkata
- 5. Mumbai
- 6. Nagpur
- **B.** 1. (c) 2. (e) 3. (b) 4. (f) 5. (a) 6. (d)

MORAL

1. The Gardener's Mistake

- **A.** 1. (d) 2. (e) 3. (b) 4. (c) 5. (a)
- **B.** 1. **x** 2. **√** 3. **x** 4. **x** 5. **√**
- **C.** 1. fresh 2. monkeys 3. water 4. roots 5. ourselves
- **D.** Do yourself.
- E. 1. The gardener wanted to go to a nearby village as he was invited by his friend for a meal. 2. He went to the head of monkeys for help. 3. The plants drink water from their roots. The length of the root will decide how much water is needed by a plant. 4. The plants were uprooted by monkeys. 5. We should do our work on our own.

2. Nobel Advice

- **A.** 1. speed 2. lie 3. platform 4. Please 5. great
- **B.** 1. **x** 2. **x** 3. **√** 4. **√** 5. **√**
- **C.** Do yourself.
- D. 1. Mr. Naidu was the ticket collector. 2. No. 3. No. 4. Mr. Naidu took them to his house. 5. Nandi used to travel without ticket. One day while Mr. Naidu was checking tickets, Nandi jumped from the running train. He fell down and his feet came under

the wheels of train. 6. Do yourself.

- E. Do yourself.
- F. Do yourself.

3. Wisdom Wins

- **A.** 1. fight 2. tomorrow 3. ladoos 4. outside 5. sat
- B. 1. Deities and Demonstor Lord Brahma 2. Lord Brahma to Deities and Demons 3. Lord Brahma to Deities and Demons 4. Lord Brahma to Deities and Demons
- **C.** 1. **x** 2. **√** 3. **√** 4. **√** 5. **√**
- D. Do yourself.
- E. 1. Deities and demons. 2. They wanted to know "Who is the most intelligent Deity or Demon". 3. All the deities sat opposite to each other and started feeding each other without bending their elbows. 4. The demons tried to eat crumbs of ladoos. 5. Deities were more intelligent because their group help each other and succeeded.

COMPUTER

1. Computer: An Introduction

- **A.** 1. Sanganak 2. equipment 3. hertz 4. stored 5. software
- **B.** 1. False 2. True 3. True 4. False 5. False
- C. 1. Fast speed, errorless, storage power and privacy in computer. 2. There are three types of computers based on applications: (a) Analogy Computer (b) Digital Computer (c) Hybrid Computer 3. There are five types of computers based on their size: (a) Micro-

computer (b) Workstation (c) Mini computer (d) Mainframe computer (e) Super computer. 4. We use the brain according and incorrect data.

2. Computer and its Importance

- A. 1. Computer 2. Microprocessor
 - 3. ALU 4. processor 5. Bit
- B. 1. Personal computers are synonymous 2. We send our instructions printers, etc. 3. The Central Processing Unit is that part of computer where computer analyzes the received information.
 - 4. Byte is the standard unit of computer memory- Every letter, number or special symbol pressed from the keyboard is stored in the ASCII code in the computer's memory.
- **C.** 1. (a) 2. (b) 3. (c) 4. (d)
 - 3. Main Parts of a Computer
- **A.** 1. (c) 2. (a) 3. (b) 4. (e) 5. (d)
- B. 1. Magnetic tape is made of plastic on which a layer of magnetic element is coated. It is wrapped on large scales and Read and Write Head helps us in reading the data.

 2. RAM is known as Random Access Memory. A computer can open its basic functionality and write on RAM. CPU keeps copying data continuously from a fixed place. 3. We insert data in the computer with input devices. Examples—Keyboard and Mouse.

 4. Plotter is a special type of printer that makes line drawings
- C. 1. Programmable Read Only

and various pictures.

Memory

- 2. Hard Disk Drive
- 3. Read Only Memory
- 4. Random Access Memory
- 5. Electronically Erasable Programmable Read Only Memory
- 6. Magnetic Optical Disk
- D. Do yourself.

4. Computer Software

- A. 1. Component 2. Instructions
 - 3. Operating system
 - 4. Windows 95/98
- **B. Hypertext:** Hypertext is a special type of test that relates to other text. Underline sentences of group of words are used in text to line it to another document.

Hypermedia: It is the latest form of hypertext used to add a line or group of words. We can connect any current page to a fixed image, video clip, film or sound.

- C. Do yourself.
- D. 1. The group of programs is called software. It is the part of computer that gives maximum output by controlling the functioning of computer. Disk operating system, operating system, UNIX and LINUX are its various examples.

 2. Operating system controls are components of the computer.

 3. Computer programs are made in very high-level languages that the computer does not understand. Therefore, we use a language processor that converts this language to the machine language.

हिन्दी

1. प्राणी वही प्राणी है

- (क) 1. पानी में गर्मी से बेचैन तपते हुए लोगों को ठंडा करने का गुण पाया जाता है। 2. प्राणी वही प्राणी से यह अभिप्राय है कि असली प्राणी वही होता है जो दूसरों के दुखों को अपना समझकर उनकी सहायता करता है। 3. सत्य और असत्य के पति सच्चे पाणी में कवि द्वारा बताया गया है कि जो सच्चा प्राणी होता है वह किसी के झठ के डराए से हरगिज डरता नहीं. सदैव सच्चाई की राह पर चलता है। 4. किव द्वारा ऐसी मृत्यु श्रेष्ठ बताई गई है जिसमें प्राणी अपने माथे को फुल के समान, नमन कर दें। 5, कवि कहता है कि हमें सभी प्राणियों के प्रति ऐसे विचार अपनाने चाहिए कि कोई भी प्राणी इस संसार में छोटा या बडा नहीं होता। अर्थात् हमें सबको समान रूप से देखना चाहिए।
- (ख) स्वयं कीजिए।
- (ग) दी गई पिक्तयों में किव द्वारा कहा गया है कि जो प्राणी जरूरत पड़ने पर अपने प्राण बिना किसी झिझक के किसी की सहायता हेतू गवा दे। किसी की रूकती हुई दुनिया को एक नया रूप दे दें। मरना ऐसा ही अच्छा है।
- (घ) 1. गर्मी से बेचैन तपते हुए प्राणी को जो ठंडक पहुचाएँ। 2. किसी भी चीज के लालच में आकर जो प्राणी कुछ गलत कार्य न करे, असली प्राणी वही है।

भाषा-बोध

- (क) होठ, आराम, तपता हुआ
- **(ख)** बेचैन, असत्य, ठण्डक

(क)1. तेनालीरामन एक तेनालीरामन	वीर से किया जाएगा।
कहते थे। 2. राजा के दरबार में	(ख) 1. आँख 2. तेल 3. ध्यान 4. मिट्टी 5. बाण
बैठे रहने दीजिए। 3. राजा द्वारा तेनालीरामन	(ग) 1. स 2. द 3. य 4. अ 5. ब
ढककर दरबार में आया। 4.	भाषा–बोध
तेनालीरामन ने महाराज बहुत	(क) पराजय, कायर, अकुशल, बीमार, ज्यादा,
ही गरीब थे। 5. तेनालीरामन के विषय	धनी
निश्चय की वजह से।	(ख)स्वयं कीजिए।
(ख)1. गाँव के लोगों ने एक दूसरे से कहा-	(ग) 1. तुम्हें उधर क्या दिखाई देता है।
इसलिए कहा क्योंकि रामन बचपन से ही	2. अर्जुन धनुष-बाण चलाने में बहुत कुशल
बहुत बुद्धिमान और पढ़ने-लिखने में बहुत	થેા
चतुर था। 2. सेनापित ने महाराज से कहा–	(घ) मिट्टी, परीक्षा
क्योंकि गाँव के लोग रात–दिन आपका	(ङ) पुल्लिंग, पुल्लिंग, स्त्रीलिंग, पुल्लिंग
गुणगान करते हैं। 3. तेनालीरामन ने विद्वानों	(च) स्वयं कीजिए।
से कहा- एक विद्वान के तर्क का उत्तर देते	
हुए कहा।	4. विकास के लाभ में बाधा
	(
(ग) 1. हँस 2. तेनालीरामन 3. विजयनगर	(क) 1. हमारे देश सन् 1947 स्वतंत्र
(ग) 1. हस 2. तेनालारामन 3. विजयनगर 4. तेनाली 5. विदूषक	हुआ। 2. देश के बहुमुखी विकास
• •	हुआ। 2. देश के बहुमुखी विकास और न कोई बेरोजगार। 3. देश में चीनी,
4. तेनाली 5. विदूषक	हुआ। 2. देश के बहुमुखी विकास और न कोई बेरोजगार। 3. देश में चीनी, सीमेंट में वृद्धि हुई। 4. आजादी
4. तेनाली 5. विदूषक भाषा-बोध	हुआ। 2. देश के बहुमुखी विकास और न कोई बेरोजगार। 3. देश में चीनी, सीमेंट में वृद्धि हुई। 4. आजादी के समय करोड़ थी। 5. बढ़ती हुई
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा,	हुआ। 2. देश के बहुमुखी विकास और न कोई बेरोजगार। 3. देश में चीनी, सीमेंट में वृद्धि हुई। 4. आजादी के समय करोड़ थी। 5. बढ़ती हुई जनसंख्या के कारण हम लोगों को
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर	हुआ। 2. देश के बहुमुखी विकास
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर (ख) स्वयं कीजिए।	हुआ। 2. देश के बहुमुखी विकास और न कोई बेरोजगार। 3. देश में चीनी, सीमेंट में वृद्धि हुई। 4. आजादी के समय करोड़ थी। 5. बढ़ती हुई जनसंख्या के कारण हम लोगों को निम्नलिखित परेशानियाँ उठानी पड़ रही है– जिस परिवार ठीक से नहीं
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर (ख) स्वयं कीजिए। (ग) कवियत्री, स्त्रियाँ; अध्यापिका, कहानियाँ;	हुआ। 2. देश के बहुमुखी विकास
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर (ख) स्वयं कीजिए। (ग) कवियत्री, स्त्रियाँ; अध्यापिका, कहानियाँ; वीरांगना, शुभकामनाएँ; सम्राज्ञी, वीरांगनाएँ (घ) स्वयं कीजिए।	हुआ। 2. देश के बहुमुखी विकास
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर (ख) स्वयं कीजिए। (ग) कवियत्री, स्त्रियाँ; अध्यापिका, कहानियाँ; वीरांगना, शुभकामनाएँ; सम्राज्ञी, वीरांगनाएँ (घ) स्वयं कीजिए। 3. धनुर्धर अर्जुन	हुआ। 2. देश के बहुमुखी विकास
4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर (ख) स्वयं कीजिए। (ग) कवियत्री, स्त्रियाँ; अध्यापिका, कहानियाँ; वीरांगना, शुभकामनाएँ; सम्राज्ञी, वीरांगनाएँ (घ) स्वयं कीजिए।	हुआ। 2. देश के बहुमुखी विकास
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4. तेनाली 5. विदूषक भाषा-बोध (क) अप्रसन्न, आना, अधीर, अनसुना, असुविधा, अनिच्छा, असाधारण, अनादर (ख) स्वयं कीजिए। (ग) कवियत्री, स्त्रियाँ; अध्यापिका, कहानियाँ; वीरांगना, शुभकामनाएँ; सम्राज्ञी, वीरांगनाएँ (घ) स्वयं कीजिए। 3. धनुर्धर अर्जुन (क) 1. हमारे देश में एक	हुआ। 2. देश के बहुमुखी विकास

ने अर्जुन को केवल निशाने पर ही था। 5. राजा हुपद की शर्त

(ग) पुष्प, सुमन, कुसुम; जल, नीर, तोय

2. गुणवान तेनालीरामन

5. मत रुक, मत रुक, कदम बढ़ा

- (क) 1. ऊपर चढ़ते जाने में आगे पर्वत और कठोर आएँगे, आगे चलकर बादल और घिरे होगें और बिजली का शोर बहुत होगा। 2. पथ चलते समय मार्ग में निदयों की गित बहुत तेज होगी, पथ में कांटे तथा कंकर होगें या विषैले साँप मिले। 3. अरिदल हमारे मार्ग में आकर हमें आगे बढ़ने से रोकने की कोशिश करेगा। 4. समस्त कठिनाइयों के होते हुए भी हमें उन कठिनाइयों का सामना करते हुए मार्ग बनाकर आगे बढते रहना चाहिए।
- (ख) दी गई पिक्तयों में किव कहता है कि शत्रुओं का समूह चाहे राहे रोके खड़ा हो या रास्ते में कोई हाथी अड़ा हो। यहाँ हाथी से तात्पर्य को हाथी जैसी बड़ी मुसीबत से है। मार्ग में चाहे कोई खाई हो या कहीं पर गड्ढा, तुम रुको मत, मुसीबतों का सामना करके, मार्ग बनाकर आगे बढ़ते जाओ। अपने कदम मत रोको इन किठनाइयों से डर कर। तुम बस आगे बढ़ते रहो।

6. स्वार्थी दानव

- (क) 1. दानव ने बगीचे के देखकर बच्चे उदास थे। 2. दानव ने प्रात:काल उठकर बर्फ से ढका हुआ था। 3. दानव के बाग के कोने और पश्चाताप से भर उठा। 4. दानव के बगीचे में रोजाना से प्यार करने लगा था। 5. छोटे लड़के ने दानव जिसे स्वर्ग कहते हैं।
- (ख) 1. स्वार्थी 2. बच्चे 3. खुशबू 4. हरियाली 5. बूढ़ा 6. सफेद

(刊) 1. x 2. x 3. x 4. ✓ 5. ✓

भाषा-बोध

- (**क**) 1. क्रिसमस 2. ईसा मसीह 3. बेथलेहम 4. मैरी 5. पाइन
- **(ख)** देवता, परार्थी, शत्रु, बाहर, उष्ण, अविश्वास
- (ग) स्वयं कीजिए।

7. अश्वमेध का घोड़ा

- (क) 1. लव-कुश अयोध्यापितपुत्र थे। 2. लव-कुश आश्रम में रहते थें।
 - अश्वमेध का घोड़ा' से
 युद्ध करना पड़ता है। 4. लव-कुश ने अश्वमेध घूमना चाहते थे।
 - 5. सैनिक आश्रम में पवित्र स्थान है। 6. लव-कुश ने तुम्हारे पूज्य पिता है।
- (ख) 1. वन-प्रांत 2. काठी 3. पत्र 4. वटवृक्ष 5. परास्त
- (ग) 1. कुश 2. सैनिक 3. राम 4. सैनिक 5. सीता6. राम

भाषा-बोध

- (क) तथा (ख) स्वयं कीजिए।
- (ग) घोड़े, काठियाँ, बेटें, लाठियाँ, लोटे, सेनाएँ, कपड़े, मेले
- (घ) अश्व, तुरंग, घोटक; नृप, भूपति, नरेश; गगन, नभ, अम्बर; पेड़, तरू, विटप
- (डः) स्वयं कीजिए।

8. कुछ काम करेंगे हम

(क) 1. छुट्टी के समय में आलस की सभी कोशिशों को बच्चे नाकाम करना चाहते हैं। 2. छुट्टी के समय बालक सबसे पहले अपने घर की फूलवारी को ठीक करने के लिए कह रहे हैं। 3. अपने से छोटों को बालक खेल-खेल में पाठ पढ़ाएँगे। जो किताबें वे पढ़ चुके है, अपने से छोटों को उन्हें थमाएँगे। 4. बालक अपनी माँ का घर के कामों में हाथ बटाना चाहते हैं क्योंकि उन्हें लगता है माँ को छुट्टी ही कब मिलती है घर के कामों से।

(ख) दी गई पिक्तयों में किव कहना चाहता है कि बालक अपनी माँ के कुछ काम करके उनका हाथ बटाएगें, हमें तो फिर भी छुट्टी मिल जाती है लेकिन हमारी माँ को घर के कामों से छुट्टी ही कहाँ मिलती हैं। अगर हम घर का कुछ काम करेंगे तो हमारी माँ भी थोड़ा–सा आराम कर लेगीं। बालक कहते है कि छुट्टी में भी हम आराम नहीं, कुछ नए–नए काम करेगें।

भाषा-बोध स्वयं कीजिए।