

Key book

Understanding Mathematics

3

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PUDUCHERRY



PROGRESS PUBLISHERS
KRISHNA NAGAR, DELHI - 110051

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UNIT 1

Page No. 9

1. Yes 2. No 3. Yes 4. Yes

Page No. 14 Worksheet

1. left, 4, right, seven, 4 2. 15 3. 23 4. left, 4 left, 6 5. school 15
6. prayer centre, 10

UNIT 2

Page No. 15

1. 1 9
10 99
100 999
2. 1. 99 2. 707 3. 999 4. 67 5. 432
3. 1. Five hundred and five
2. Six hundred and Ninety three
3. Seven hundred
4. Nine hundred and eighty
5. Four hundred and thirty one

Page No. 16

- | | | | | |
|---------------|------------|------------|------------|------------|
| 4. 1. 6, 4, 7 | 2. 8, 2, 3 | 3. 7, 9, 6 | 4. 4, 4, 4 | 5. 9, 0, 9 |
| 5. 1. 576 | 2. 902 | 3. 800 | 4. 333 | 5. 198 |
| 6. 1. 140 | 150 | 160 | 170 | 180 |
| 2. 120 | 100 | 80 | 60 | 40 |
| 3. 500 | 550 | 600 | 650 | 700 |
| 4. 567 | 467 | 367 | 267 | 167 |
| 7. 1. 210 | 310 | 410 | 510 | |
| 2 170 | 180 | 190 | 200 | |
| 3. 100 | 150 | 200 | 250 | |
| 8. 1. 770 | 670 | 570 | 470 | |
| 2. 730 | 720 | 710 | 700 | |
| 3. 350 | 300 | 250 | 200 | |

UNIT 3

Page No. 17-18

- 2 2000

3	3000
4	4000
5	5000
6	6000
7	7000
8	8000
9	9000

Page No. 20

- 5370 Five thousand three hundred and seventy
- 3214 Three thousand two hundred fourteen
- 6235 Six thousand two hundred and thirty five

Page No. 21

1. 2148	2149	2150	2151	2152	
4294	4293	4292	4291	4290	
4444	5555	6666	7777	8888	
2. 3722	3724	3726	3728	3730	3732
9328	9330	9332	9334	9336	9338
5002	5004	5006	5008	5010	5012
3. 1350	1355	1360	1365	1370	1375
3295	3300	3305	3310	3315	3320
8605	8610	8615	8620	8625	8630
4. 6352	6362	6372	6382	6392	6402
3801	3811	3821	3831	3841	3851
8125	8135	8145	8155	8165	8175
5. 4344	4444	4544	4644	4744	4844
3105	3205	3305	3405	3505	3605
8556	8656	8756	8856	8956	9056
6. 2451	3451	4451	5451	6451	7451
3222	4222	5222	6222	7222	8222
3500	4500	5500	6500	7500	8500

Page No. 23

1. 1. No	2. No	3. Yes	4. Yes	5. No	6. Yes
2. 1. 3	2. 8	3. 6	4. 4	5. 5	6. 9
3. 1. 700	2. 3000	3. 5000	4. 70	5. 3	6. 0

4. 1. Yes 2. No 3. No 4. Yes
 5. 2. 8500 3. 4510 4. 1459 5. 5132

Page No. 24

1. 1. 8 9 6 0
 2. 6 2 7 5
 3. 6 0 0 4
 4. 4 0 4 0
 5. 7 9 2 1
 2. 1. 7905 2. 653 3. 8000 4. 4004 5. 2400

Page No. 25

1. 1. 6006 2. 8020 3. 7900 4. 5402 5. 9999
 2. 1. Nine thousand and one
 2. Six thousand and ten
 3. Seven thousand seven hundred and seven
 4. Four thousand five hundred and twenty
 5. Nine thousand nine hundred and ninety nine
 3. 1. 1002 1003 1004 1005 1006 1007
 2. 5759 5760 5762 5763 5764 5765
 3. 9891 9892 9893 9894 9896 9897
 4. 1. 3 2 4 6
 2. 7 0 7 4
 3. 9 4 0 9
 5. 1000 1001 1002 1003
 6. 9996 9997 9998 9999

Page No. 26

7. 1. 5637 2. 6724 3. 9001 4. 4600 5. 8888
 8. 1. 10 2. 10 3. 100 4. 1
 9. 1. 5348 2. 6784 3. 7998 4. 9428
 10. 1. 6325 2. 2941 3. 5740 4. 8825

Puzzle

- 8 7 5 2 7
 6 6 0 4
 3 2
 9 7 4 8 3
 2 5 1 0 5
 2 8 0 1
 4

Page No. 28

1. 1. < 2. > 3. = 4. < 5. = 6. < 7. > 8. > 9. <
2. 1. 7682 2. 5631 3. 4514
3. 1. 7055 2. 4465 3. 2006
4. 1. 5050 5105 5510 5570 5650
 2. 1982 2189 2198 2891 9812
 3. 6467 6476 6647 6674 6746
5. 1. 4231 3241 2431 2143 1243
 2. 9768 6697 6689 6078 5280
 3. 9999 9990 9909 9009 9000

Page No. 29

1. 1. 400 2. 8001 3. 1000 4. 9999 5. 4630 6. 3871
 7. 2790 8. 3100 9. 5778
2. 1. 999 2. 4059 3. 5300 4. 3299 5. 6000 6. 5059
 7. 4999 8. 3694 9. 6999
3. 1. 999 Yes 2. 100 Yes
 3. We get the successor by adding 1 in the number and predecessor by subtracting 1 in the number.

Page No. 30

1. 1. 2346 2. 1029 3. 1025 4. 3456
2. 1. 7100 2. 7654 3. 3300 4. 5321

Page No. 31

1. 1. February 108 2. Monday 1350 3. 2976 4. 6174 5. Winter 990
 THE WAITER

MCQ - I

1. 1099
 2. 3047
 3. 8520
 4. 4008
 5. Adding 1 to the number
 6. >
 7. 1234
 8. 990
 9. 13
 10. 3179

UNIT 4**Page No. 34**

$$7 + 8 = 15 \qquad 8 + 7 = 15$$

Page No. 35

$(5 + 3) + 7 = 15$

$5 + (3 + 7) = 15$

- | | | | | | |
|----------|---------|---------|---------|---------|---------|
| 1. 1. 89 | 2. 83 | 3. 95 | 4. 83 | 5. 45 | 6. 84 |
| 7. 86 | 8. 97 | 9. 86 | 10. 93 | 11. 849 | 12. 879 |
| 13. 667 | 14. 396 | 15. 764 | 16. 843 | 17. 741 | 18. 862 |

Page No. 36

2. 1. = 2. $\neq$ 3. = 4. = 5. $\neq$

3. 1. 50 $\rightarrow$ 18 + 32 = 50

2. 100 $\rightarrow$ 27 + 73 = 100

3. 1641 $\rightarrow$ 654 + 987 = 1641

4. 1. 190 2. 100 3. 750

5. 1. 210 2. 179 3. 225 4. 473

Add Mentally

1. 78 2. 365 3. 87 4. 59 5. 6305 6. 9145

Page No. 37

1. 1. 1 ten 4 ones

2. 2 tens 4 ones

3. 4 tens 5 ones

4. 9 tens 6 ones

2. 1. 1 hundred 6 tens

2. 5 hundreds 7 tens

3. 3 hundreds 4 tens

4. 8 hundreds 2 tens

3. 2. 48 T 5 ones Or 485

3. 23 T 7 ones or 237

4. 75 T 6 ones or 756

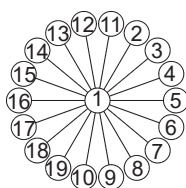
Page No. 39

1. 1. 59 2. 87 3. 77 4. 89 5. 67 6. 87

2. 1. 68 2. 69 3. 77 4. 65

Page No. 40

1. 1. 85 2. 73 3. 159 4. 161 5. 277 6. 315

Puzzle**Add Mentally**

1. 75 2. 79 3. 85 4. 250 5. 450 6. 300

Page No. 41

1. 1. 85, $40 + 45 = 85$ 2. 92, $80 + 12 = 92$ 3. 83, $70 + 13 = 83$

4. 85, $60 + 25 = 85$ 5. 147, $100 + 47 = 147$ 6. 131, $100 + 31 = 131$

Page No. 42

1. 1. 3689 2. 3899 3. 9857 4. 7699 5. 8359 6. 5684

7. 8875 8. 7834 9. 8999 10. 5986 11. 6955 12. 6399

13. 5599 14. 8888 15. 7549

Page No. 43

1. 9899 2. 8969 3. 7467 4. 3977 5. 2087

Puzzle

29	19	33	27	52	17	42	14	34
31	27	23	22	32	42	22	30	38
21	35	25	47	12	37	26	46	18

Page No. 44

1. 1. 6381 2. 4024 3. 7302 4. 8020
 5. 8120 6. 8511 7. 9230 8. 8422
 2. 1. 6678 2. 7595 3. 9358 4. 6022 5. 2261

Page No. 45

1. 184 2. 3959 3. 367

MCQ - II

1. 73 tens
 2. 2345
 3. 4990
 4. 8888
 5. 1111
 6. 5000
 7. 1001
 8. =
 9. 3358
 10. 10 tens

UNIT 5**Page No. 48 - 49**

1. 1. 744 2. 364 3. 421 4. 122 5. 326 6. 123 7. 357 8. 247
 9. 316 10. 663 11. 426 12. 647 13. 455 14. 259 15. 218 16. 426
 2. 1. 276 2. 177 3. 547 4. 176

Brain Tuner

822, 805, 733, true
 397, 368, 283, true

Page No. 50

1. 1. 45, $75 - 30 = 45$ 2. 11, $40 - 29 = 11$ 3. 23, $70 - 47 = 23$
 4. 25, $55 - 30 = 25$ 5. 18, $88 - 70 = 18$ 6. 75, $95 - 20 = 75$

Page No. 51

1. 1. 33 2. 18 3. 72 4. 47 5. 51 6. 25

Subtract Mentally

60 40

30 50

20 90

60 60

60 50

Page No. 52

1. 1. 612, $612 + 28 = 640$ 2. 342, $342 + 242 = 584$
 3. 222, $222 + 214 = 436$ 4. 329, $329 + 139 = 468$
 5. 472, $472 + 357 = 829$ 6. 444, $444 + 555 = 999$
 7. 371, $371 + 369 = 740$ 8. 308, $308 + 444 = 752$

Solve Mentally

2. 35 3. 25 4. 27 5. 33 6. 29

Page No. 53

1. 1. 5233 2. 4221 3. 2302 4. 5320 5. 3021 6. 3221
 7. 2421 8. 8812 9. 7183 10. 7412 11. 3352 12. 5512
 13. 3332 14. 2413 15. 2233 16. 2039

Page No. 54

2. 1. 3223 2. 1313 3. 3612 4. 6106 5. 3421 6. 2413
 3. 1. 3212 2. 1141 3. 1244 4. 2322

Subtract Mentally

46 17

9 19

54 23

76 14

58 25

Page No. 56

1. 1. 2757 2. 2112 3. 2472 4. 4138 5. 2203
 6. 3590 7. 5804 8. 2923 9. 2446 10. 1652
 11. 5178 12. 5677 13. 3445 14. 3296 15. 5009
 16. 4575 17. 1424 18. 4744 19. 3223 20. 4366

Puzzle

98 + 76 - 2 - 134 = 38

Page No. 57

- | | | | | |
|------------|-------------|-------------|--------|---------|
| 1. 1. 1478 | 2. 156 | 3. 102 | 4. 765 | 5. 2088 |
| 6. Monday | Tuesday | Wednesday | | |
| a. 3912 | 4105 | 4137 | | |
| b. 4684 | 3968 | 3808 | | |
| c. 491 | d. Mon, Tue | e. Mon, Tue | | |

Brain Tuner

- | | | | |
|---------|---------|---------|---------|
| 1. 1, 7 | 2. 2, 5 | 3. 5, 2 | 4. 8, 5 |
|---------|---------|---------|---------|

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- | | | |
|--------|--------|-----------------------|
| 1. 326 | 2. 390 | 3. 32 buns 37 cookies |
|--------|--------|-----------------------|

Page No. 59

- | | | | |
|------------|--------|---------|--------|
| 1. 1. 8 | 2. 8 | 3. 11 | 4. 9 |
| 2. 1. 55 | 2. 3 | 3. 50 | 4. 63 |
| 3. 1. 3355 | 2. 310 | 3. 5400 | 4. 741 |

Page No. 60

- | | | |
|-----------|--------|---------|
| 4. 1. 410 | 2. 323 | 3. 4727 |
|-----------|--------|---------|

MCQ - II

1. 700
2. 3000
3. 10
4. =
5. 8999
6. 6993
7. 99
8. 10 tens
9. 150
10. 49

UNIT 6**Page No. 64**

- | | | | | |
|-----------|---------|---------|---------|---------|
| 1. 1. 20 | 2. 60 | 3. 40 | 4. 170 | 5. 340 |
| 6. 560 | 7. 3800 | 8. 5920 | 9. 6270 | |
| 2. 1. 300 | 2. 500 | 3. 200 | 4. 2400 | 5. 4500 |
| 6. 7700 | 7. 1100 | 8. 2100 | 9. 5500 | |

1. 1. $91, 40 + 50 = 90$ 2. $80, 30 + 50 = 80$
3. $112, 70 + 50 = 120$ 4. $57, 20 + 40 = 60$

Page No. 65

1. 1. $567, 400 + 200 = 600$ 2. $1028, 500 + 500 = 1000$
3. $600, 400 + 200 = 600$ 4. $897, 600 + 300 = 900$
1. 1. $53, 90 - 30 = 60$ 2. $24, 50 - 20 = 30$
3. $23, 70 - 40 = 30$ 4. $33, 50 - 20 = 30$

UNIT 7

Page No. 66

1. 1. 5 2. 5 3. 4 4. 9
2. 1. 72 2. 48 3. 36 4. 56 5. 60 6. 45
3. 1. + 2. $\times$ 3. + 4. $\times$ 5. + 6. $\times$
4. 1. 63 2. 450 3. 500

Page No. 67

1. 1. 16 2. 29 3. 5 4. 5, 47 5. 15
6. 26 7. 45, 52 8. 29, 76 9. 86, 98 10. 90, 61

Page No. 68

2. 1. 14 2. 34 3. 30 4. 14
3. 1. 9 2. 0 3. 41 4. 218 5. 0 6. 0
4. 2. $7 \times 6 = 6 \times 7 = 42$ 3. $9 \times 3 = 3 \times 9 = 27$
4. $35 \times 7 = 7 \times 35 = 245$ 5. $25 \times 8 = 8 \times 25 = 200$
6. $17 \times 15 = 15 \times 17 = 255$
5. 2. $(3 \times 7) \times 8 = 3 \times (7 \times 8) = 168$
3. $(6 \times 5) \times 9 = 6 \times (5 \times 9) = 270$
4. $(11 \times 12) \times 15 = 11 \times (12 \times 15) = 1980$
5. $(50 \times 20) \times 10 = 50 \times (20 \times 10) = 10000$

Puzzle

1. 1. 32×2 2. 22×4 3. 24×2 4. 32×4

Page No. 69

1. 1. 639 2. 862 3. 903 4. 777
5. 446 6. 1206 7. 488 8. 900
9. 696 10. 484 11. 808 12. 399
13. 64 8 14. 808 15. 848 16. 990

Page No. 70

- | | | | |
|-----------|---------|--------|---------|
| 1. 1. 642 | 2. 1220 | 3. 605 | 4. 702 |
| 5. 548 | 6. 843 | 7. 381 | 8. 5490 |

Puzzle

- | | | | |
|---------------------|------------------|------------------|------------------|
| 1. 1. 51×4 | 2. 72×5 | 3. 36×4 | 4. 84×3 |
| 5. 84×4 | 6. 72×6 | | |

Page No. 71

- | | | | |
|------------|----------|----------|----------|
| 1. 1. 1362 | 2. 4734 | 3. 3969 | 4. 2070 |
| 5. 2565 | 6. 1416 | 7. 3280 | 8. 3552 |
| 9. 996 | 10. 3816 | 11. 6643 | 12. 1760 |

Page No. 72

- | | | | |
|-----------|---------|---------|---------|
| 1. 1. 875 | 2. 578 | 3. 1725 | 4. 5103 |
| 5. 2716 | 6. 7912 | 7. 1638 | |

Puzzle

$$753 \times 9 = 6777 \quad 2. 579 \times 3 = 1737$$

Page No. 73

- | | |
|-----------|-----------|
| 1. 1. 100 | 9. 9000 |
| 2. 230 | 10. 7070 |
| 3. 520 | 11. 7630 |
| 4. 3500 | 12. 33100 |
| 5. 8800 | 13. 10000 |
| 6. 7000 | 14. 75200 |
| 7. 17000 | 15. 75000 |
| 8. 63000 | 16. 36000 |

Page No. 75

- | | |
|------------|-----------|
| 1. 1. 80 | 6. 1360 |
| 2. 300 | 7. 1600 |
| 3. 120 | 8. 2440 |
| 4. 210 | 9. 240 |
| 5. 560 | 10. 1860 |
| 2. 1. 3500 | 6. 19800 |
| 2. 1800 | 7. 13600 |
| 3. 4800 | 8. 9300 |
| 4. 2100 | 9. 4400 |
| 5. 3600 | 10. 18600 |

3. 1. 12000 6. 24000
2. 10000 7. 12000
3. 35000 8. 36000
4. 48000 9. 55000
5. 54000 10. 32000

4. 1. 360
2. 930
3. 900
4. 1890
5. 1. 3000
2. 5000
3. 13400
4. 8400

Page No. 76-77

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 1. 612 | 2. 2730 | 3. 2184 | 4. 3015 |
| 5. 3630 | 6. 1204 | 7. 1350 | 8. 1564 |
| 9. 4575 | 10. 10812 | 11. 12060 | 12. 22935 |
| 13. 6369 | 14. 8534 | 15. 7770 | 16. 6110 |

Page No. 77

- | | | | | |
|-----------|----------|---------|---------|----------|
| 1. 1. 810 | 2. 13300 | 3. 8016 | 4. 4608 | 5. 24892 |
|-----------|----------|---------|---------|----------|

Page No. 79

- | | | | | | |
|-----------|---------|--------|--------|---------|---------|
| 1. 1. 598 | 2. 918 | 3. 901 | | | |
| 2. 1. 352 | 2. 1150 | 3. 888 | 4. 918 | 5. 2520 | 6. 1932 |

MCQ - IV

1. 100
2. 10
3. 100
4. 1
5. 300×6
6. 9000
7. 100
8. 90
9. 1210
10. $20 \times 40 \times 10$

Page No. 83

- | | | |
|---------|------|-------|
| 1. 1. 4 | 4. 5 | 7. 3 |
| 2. 6 | 5. 9 | 8. 3 |
| 3. 6 | 6. 6 | 9. 10 |
| 2. 1. 9 | 4. 8 | 7. 9 |
| 2. 7 | 5. 4 | 8. 8 |
| 3. 7 | 6. 9 | 9. 8 |

Puzzle

- $2 \times 3 = 6$
 $6 + 6 = 12$
 $12 \div 3 = 4$
 $4 - 2 = 2$
 2

Page No. 85

1. 1. 35, 28, 21, 14, 7, 0
6, 6
2. 1. 63, 54, 45, 36, 27, 18, 9, 0
8, 8
2. 60, 50, 40, 30, 20, 10, 0
7, 7
3. 1. 6 2. 9 3. 5 4. 5 5. 3 6. 9 7. 3 8. 6

Page No. 87

1. 1. (a) $5 \times 4 = 20$ (b) $4 \times 5 = 20$
2. (a) $9 \times 3 = 27$ (b) $3 \times 9 = 27$
3. (a) $9 \times 5 = 45$ (b) $5 \times 9 = 45$
4. (a) $7 \times 8 = 56$ (b) $8 \times 7 = 56$
2. 1. (a) $36 \div 9 = 4$ (b) $36 \div 4 = 9$
2. (a) $70 \div 7 = 10$ (b) $70 \div 10 = 7$
3. (a) $72 \div 9 = 8$ (b) $72 \div 8 = 9$
4. (a) $30 \div 5 = 6$ (b) $30 \div 6 = 5$
3. 2. $4 \times 3 = 12$ $12 \div 3 = 4$, $3 \times 4 = 12$ $12 \div 4 = 3$
3. $10 \times 3 = 30$ $30 \div 3 = 10$, $3 \times 10 = 30$ $30 \div 10 = 3$
4. $9 \times 7 = 63$ $63 \div 7 = 9$, $7 \times 9 = 63$ $63 \div 9 = 7$

5. $7 \times 6 = 42$ $42 \div 6 = 7$, $6 \times 7 = 42$ $42 \div 7 = 6$
 6. $4 \times 6 = 24$ $24 \div 6 = 4$, $6 \times 4 = 24$ $24 \div 4 = 6$
 4. 1. 6, (a) $3 \times 6 = 18$ (b) $6 \times 3 = 18$
 2. 20, (a) $4 \times 5 = 20$ (b) $5 \times 4 = 20$
 3. 112, (a) $16 \times 7 = 112$ (b) $7 \times 16 = 112$

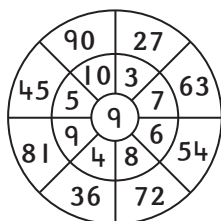
Page No. 88

1. 1. 5 2. 24 3. 136 4. 1 5. 1 6. 1 7. 0 8. 0 9. 0
 2. 1. 7 2. 1 3. 0 4. 99 5. no meaning

Page No. 89

1. 1. 14 2. 27 3. 39 4. 18 5. 16 6. 14 7. 33 8. 13 9. 29 10. 13

Brain Tuner



Page No. 90

1. 1. 116 2. 116 3. 39 4. 109 5. 113 6. 109
 7. 139 8. 242 9. 123 10. 202 11. 120 12. 131

Page No. 91

1. 1. 1697 2. 1247 3. 1116 4. 672 5. 1423 6. 1841
 7. 534 8. 2484 9. 871 10. 2231 11. 1217 12. 307

Page No. 92

1. 1. 8 2. 31 3. 48 4. 64 5. 211 6. 508
 7. 713 8. 92

Page No. 94

1. 1. Q-4, R-1 2. Q-2, R-2 3. Q-1, R-3 4. Q-9, R-5
 5. Q-7, R-5 6. Q-11, R-5 7. Q-4, R-4 8. Q-5, R-5
 9. Q-88, R-1 10. Q-54, R-2 11. Q-36, R-2 12. Q-33, R-4
 2. 1. 8 2. 2 3. 22 Boxes 1 Pencil

Page No. 95

1. 1. Q-11, R-6 2. Q-56, R-1 3. Q-46, R-1 4. Q-92, R-1
 5. Q-73, R-7 6. Q-97, R-4 7. Q-102, R-2 8. Q-44, R-2

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1. 1. 6 9. 4
 2. 9 10. 6
 3. 5 11. 9
 4. 30 12. 1
 5. 70 13. 36

- | | |
|--------|--------|
| 6. 101 | 14. 44 |
| 7. 205 | 15. 80 |
| 8. 630 | 16. 90 |

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Q	R	Q	R
1. 1. 6	5	7. 4	75
2. 8	8	8. 9	65
3. 12	6	9. 7	98
4. 86	2	10. 90	40
5. 154	3	11. 25	76
6. 829	1	12. 66	77

Page No. 98

- | | |
|--------------|-------------|
| 1. 1. $\div$ | 5. $\times$ |
| 2. $-$ | 6. $\times$ |
| 3. $\div$ | 7. $+$ |
| 4. $-$ | 8. $+$ |
2. 1. $\div, \times$ 4. $\times, +$
 2. $-, \div$ 5. $\div, +$
 3. $\div, -$ 6. $-, +$
3. 1. 285 subtract 2. 6300 multiply 3. 3666 add 4. 38 divide

Page No. 99

- | | | |
|-------------------------|------------------|---------------------------------------|
| 1. 1. 93 | 2. 77 | 3. 345 |
| 2. 1. 157, $\checkmark$ | 2. 235, $\times$ | 3. 218, $\checkmark$ 4. 608, $\times$ |

Page No. 100

- | | | | | | | |
|-------|--------|--------|---------|-------------|-------|-----------------|
| 1. 24 | 2. 37 | 3. 514 | 4. 21 | 5. 30 | 6. 35 | 7. 1250 |
| 8. 32 | 9. 160 | 10. 66 | 11. 123 | 12. 66 cans | 10 l | 13. 12 14. 6 |

MCQ - V

- | | |
|-------|----------------|
| 1. 30 | 2. 9 |
| 3. 15 | 4. $<$ |
| 5. 8 | 6. $84 \div 7$ |
| 7. 13 | 8. 90 |
| 9. 4 | 10. 14 |

Page No. 103-104

1. 1. 8, 11, 14, 17
2. 12, 24, 48, 96
3. 40, 35, 30, 25
4. 15, 31, 63
5. 14, 26, 50, 98
6. 11, 19, 35, 67
7. 13, 29, 61, 125
2. 1. 2 2. 5 3. 3
3. 1. 2 2. 3
4. 1. 18, 21, 24, 27, 30, 33
2. 13, 17, 21, 25, 29, 33
3. 17, 22, 27, 32, 37, 42

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6, 3, 3, 5

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1. 1. 38, 40, 42, 44, 46, 48
2. 118, 120, 122, 124, 126, 128
3. 990, 992, 994, 996, 998
2. 1. 17, 19, 21, 23, 25, 27
2. 781, 783, 785, 787, 789, 791
3. 995, 993, 991, 989, 987, 985
3. 1. 146, 148, 150, 152, 154, 156, 158, 160, 162, 164
2. 501, 503, 505, 507, 509
3. even
4. even
5. odd number
6. odd number
4. odd = 25, 121, 301 even = 42, 28, 112, 424, 650

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5. 1. $3714 + 2964 = 6678$, even number
2. $3849 + 2751 = 6600$, even number

1. 1. 80 50
800 500
8000 5000
2. 1. 36663 6666
366663 666666
3. 111, 222, 333, 444, 555, 666, 777

UNIT 10

Page No. 108

2. 5, 7

Page No. 109

2. 3, 12

Page No. 110

- | | | | |
|-------------|----------------|-------------|----------------|
| 1. 4, 2 | 2. 8, 4 | 3. 12, 6 | 4. 10, 5 |
| Half | Quarter | Half | Quarter |
| 2. 1. 2 | 1 | 4. 16 | 8 |
| 2. 6 | 3 | 5. 20 | 10 |
| 3. 14 | 7 | 6. 44 | 22 |

Page No. 110 Visual Thinking

No, because Joy's 1 part is equal to a Kushi's 2 parts.

Page No. 111

2. 4, 8

Page No. 112 Talk About It

There are 7 apples in all. $\frac{5}{7}$ shows that 5 apples out of 7 are yellow.

Page No. 113

1. 1. $\frac{2}{6}$ 2. $\frac{5}{9}$ 3. $\frac{3}{5}$ 4. $\frac{8}{10}$ 5. $\frac{1}{4}$ 6. $\frac{7}{8}$ 7. $\frac{4}{8}$ 8. $\frac{3}{6}$ 9. $\frac{6}{10}$

Page No. 114

2. 1. $\frac{3}{4}$ 2. $\frac{2}{3}$ 3. $\frac{1}{7}$ 4. $\frac{1}{4}$ 5. $\frac{3}{5}$ 6. $\frac{1}{2}$
3. 1. numerator 2. denominator 3. numerator 4. denominator
5. numerator 6. denominator
4. 1. $\frac{3}{5}$ 2. $\frac{3}{7}$ 3. $\frac{5}{14}$ 4. $\frac{4}{5}$ or 16 5. $\frac{1}{2}$ or 5

Page No. 115

1. 1. $\frac{2}{6}$ 2. $\frac{2}{8}$

$$2. 1. \frac{1}{2} = \frac{2}{4} = \frac{3}{6}$$

$$2. \frac{1}{3} = \frac{2}{6} = \frac{3}{9}$$

$$3. \frac{1}{4} = \frac{2}{8} = \frac{3}{12}$$

Page No. 116

$$1. 2. \frac{6}{18}$$

$$3. \frac{4}{16}$$

$$4. \frac{3}{15}$$

$$5. \frac{2}{12}$$

Page No. 117

$$24 \div 2 \quad 12$$

$$18 \div 3 \quad 6$$

$$15 \div 5 \quad 3$$

MCQ - VI

1. Fractional numbers

2. 5

$$3. \frac{3}{5}$$

$$4. \frac{2}{5}$$

5. 6

$$6. \frac{2}{6}$$

7. 10

$$8. \frac{2}{6}$$

$$9. \frac{2}{8}$$

$$10. \frac{4}{10}$$

UNIT 11

Page No. 119

1. 1. 4

2. 10

3. 5

4. 20

5. 5

2. 1. 50

2. 30

3. 10

4. 4

5. 50

Page No. 121

1. 1. 900 p

2. 2500 p

3. 10000 p

4. 1875 p

5. 5825 p

6. 505 p

7. 1620 p

8. 7007 p

9. 9300 p

10. 10015 p

2. 1. 16.15

2. 70.20

3. 45.65

4. 7.10

5. 9.05

6. 4.09

3. 1. 50 20 p

2. 3 50 p

3. 10 37 p

4. 2 66 p

5. 10 00 p

6. 80 00 p

7. 90 90 p

8. 20 01 p

4. 1. 16 37 p

2. 15 65 p

3. 40 50 p

4. 100 63 p

5. 30 03 p

6. 100 25 p

7. 125 75 p

8. 64 05 p

Page No. 122

1. 1. 50 2. 75 3. 100 4. 125 5. 30 80 p
6. 36 50 7. 85 75 8. 588 25 9. 768 75 10. 758 00
11. 596 75 12. 465 80

Page No. 123

1. 1. ₹ 578.75 2. ₹ 473.20 3. ₹ 150.25
4. (1) ₹. 83.50 (2) ₹ 70.25 (3) ₹ 95.75

Page No. 124

1. 1. 50 2. 25 3. 20 4. 40 5. 57 25
6. 65 25 7. 18 25 8. 61 50 9. 101 25 10. 292 50
11. 124 60 12. 375 30

Page No. 125

2. 1. 8.10 2. 11.45 3. 29.13 4. 23.07 5. 10.82 6. 29.45
3. 1. 17.84 2. 37.50 3. 314.25 4. 725 5. 13.25 6. 461.25
7. 32.50 8. 12.95 9. 40.30

Page No. 126

1. 1. 8.50 2. 19.50 3. 11.00 4. 48.25 5. 51.00 6. 82.50
7. 300.00 8. 184.00 9. 319.50 10. 372.75 11. 542.00 12. 326.00

Page No. 127

2. 1. ₹ 582 2. ₹ 4950 3. ₹1302 4. ₹.76.50, ₹23.50
5. ₹ 2341.75 6. 500
3. 1. ₹ 1 50 p ₹ 2 50 p
2. ₹ 2 25 p ₹ 3 75 p
3. ₹ 15 00 p ₹ 25 00 p
4. ₹ 21 75 p ₹ 36 25 p
5. ₹ 46 50 p ₹ 77 50 p

Page No. 128

1. 12 2. 8 3. 39 4. 34 5. 2.19 6. 7.01 7. 9.06 8. 19.80

Page No. 130

1. 59 2. 126

MCQ - VII

1. one paisa 2. 25
3. ₹ 3000 4. 150 p
5. ₹ 2.50 6. ₹ 29
7. ₹ 352.50 8. ₹ 300
9. ₹ 100 10. ₹ 10

Page No. 133

1. 1. 63000 *m* 2. 13121 *m* 3. 46015 *m* 4. 7213 *m* 5. 133035 *m*
 6. 465076 *m*
2. 1. 260 *dm* 2. 401 *dm* 3. 445 *dm* 4. 648 *dm* 5. 1245 *dm*
 6. 1331 *dm*

Page No. 134

3. 1. 120 *cm* 2. 105 *cm* 3. 445 *cm* 4. 488 *cm* 5. 242 *cm*
 6. 761 *cm*

Page No. 135

4. 1. 100 *cm* 2. 723 *cm* 3. 1912 *cm* 4. 4207 *cm* 5. 12040 *cm*
 6. 24936 *cm*
5. 1. 1.23 2. 1 *m* 3. 2.10 *m* 4. 32 *m*
6. 1. .012 *m* 2. .122 *km* 3. 1 *km* 4. 4.1 *km*

Page No. 136

1. 1. 12.42 2. 8.74 3. 14.00 4. 95.39 5. 31.10 6. 100.84
2. 1. 4*m* 20*cm* 2. 2*m* 90*cm*

Brain Tuner

1. 20 2. 80 3. 2

Page No. 137

3. 1. 9.728 2. 10.200 3. 13.600 4. 31.120 5. 65.266 6. 36.110
4. 1. 124*km* 200*m* 2. 122*km* 625*m* 3. (a) 2135*km* (b) 2431*km*
 (c) 2606*km* (d) 1960*km*

Page No. 138

1. 1. 7*m* 62*cm* 2. 12*m* 20*cm* 3. 53*m* 22*cm* 4. 43*m* 85*cm*
 5. 16*m* 88*cm* 6. 42*m* 92*cm*
2. 1. 7*m* 30*cm* 2. 43*m* 55*cm*

Brain Tuner

1. *cm* 2. *m* 3. *km* 4. *mm*

Page No. 139

3. 1. 23*km* 26*m* 2. 19*km* 05*m* 3. 23*km* 84*m* 4. 24*km* 05*m*
 5. 22*km* 840*m* 6. 42*km* 199*m*
4. 1. Mumbai, 648*km* 2. Peter, 25*km* 600*m* 3. 320*km* 125*m*

Page No. 140

1. 1. *kg* 2. *g* 3. *g* 4. *kg*
 2. 1. 40 2. 2000 3. 1
 3. 1. 750*g* 2. 2*kg* 500*g* 3. 1*kg* 250*g*

Page No. 141

1. 1. 7000*g* 2. 5020*g* 3. 12100*g* 4. 31250*g* 5. 43500*g* 6. 59750*g*
 2. 1. 7*kg* 2. 2*kg* 400*g* 3. 8*kg*

Page No. 142

1. 1. 13*kg* 950*g* 2. 13*kg* 875*g* 3. 12*kg* 875*g* 4. 97*kg* 800*g*
 5. 170*kg* 730*g* 6. 91*kg* 906*g*
 2. 1. 5*kg* 750*g* 2. 93*kg* 770*g*

Page No. 143

1. 1. 4*kg* 650*g* 2. 4*kg* 440*g* 3. 4*kg* 303*g* 4. 17*kg* 578*g*
 5. 12*kg* 367*g* 6. 65*kg* 257*g*
 2. 1. 3*kg* 800*g* 2. 14*kg* 750*g* 3. 54*kg* 270*g*

Page No. 144

1. 1. *ml* 2. *l* 3. *l* 4. *ml*
 2. 1. 150 2. 12 3. 5
 3. 1. 600*ml* 2. 350*ml* 3. 750*ml*

Page No. 145

1. 1. 8000*ml* 2. 3200*ml* 3. 14325*ml* 4. 33550*ml* 5. 63750*ml* 6. 71930*ml*
 2. 1. .003*l* 2. 1*l* 200*ml* 3. 4*l*

Page No. 146

1. 1. 12*l* 680*ml* 2. 11*l* 573*ml* 3. 13*l* 267*ml* 4. 32*l* 690*ml*
 5. 83*l* 275*ml* 6. 88*l* 955*ml*
 2. 1. 98*l* 945*ml* 2. 20*l* 695*ml* 3. 65*l* 485*ml*

Page No. 147

1. 1. 3*l* 405*ml* 2. 5*l* 800*ml* 3. 5*l* 480*ml* 4. 22*l* 435*ml*
 5. 54*l* 213*ml* 6. 333*l* 405*ml*
 2. 1. 4*l* 100*ml* 2. 9*l* 375*ml*

MCQ - VIII

1. millimetre 2. 20*cm*
 3. 3000*m* 4. 500*ml*
 5. kilogram 6. 170*l*
 7. litre 8. 1000
 9. 17*l* 10. 800*ml*

Page No. 152

1. 2. half past 9, 9:30 3. Quarter to 8, 1:45 4. quarter to 6, 6:15
5. 8 o'clock 6. half past 2, 2:30
2. 1. 10 minutes to 4, 3:50 2. 10 minutes past 5, 5:10
3. 25 minutes to 11, 10:35

Page No. 153

2. 1. 10:25 a.m. 2. 12:20 a.m. 3. 3:45 p.m. 4. 6:50 p.m.
5. 4:10 a.m. 6. 9:30 p.m.
3. 1. minutes 2. hours 3. p.m., a.m.

Page No. 154

5. 1. 8:55 2. 5:00 3. 9:25 4. 5:15

Page No. 155

6. 1. 30min 2. 14 hrs 3. 25min 4. 4hrs 15min
7. 1. 9:15 a.m. 2. 9:30 a.m. 3. 11.00 a.m. 4. 11.30 a.m.
5. 1:30 p.m. 6. 6 7. 7 p.m.

Page No. 157 Worksheet

1. 10:07 a.m. 2. 199 3. 199 4. 2 hours 52 m 5. 1:35 p.m.
6. 414 7. 350 8. 6h 20m 9. 172, 2h 47m, 120 10. 163, 452

MCQ - IX

1. 11:15
2. 15
3. 7:45
4. 5:45
5. 12 o'clock
6. 2 times
7. 6 o'clock
8. 12 hours
9. 195 minutes
10. 63 hours

UNIT 14

Page No. 162

1. cylinder	cube	cone	sphere	cuboid
2	6	1	0	6
1	0	1	1	0
2	12	1	0	12
0	8	1	0	8

2. 1. cone 2. sphere 3. cylinder 4. cube



UNIT 15

Page No. 166

1. 1. 5cm 2. 9cm 3. 11cm 4. 8cm

3. 1. AB BC CA 2. PQ QR RS SP

4. No

Page No. 169

1. 1. ✓ 2. ✗ 3. ✓ 4. ✗ 5. ✓
 2. 1. 4, 4 2. 3, 3 3. equal 4. opposites 5. No, No 6. 2
 3. 8 4. 14

UNIT 16

Page No. 171

1. 4cm 5cm 7cm 16cm
 2. 5cm 5cm 5cm 5cm 20cm
 3. 7cm 7cm 3cm 3cm 20cm

Page No. 172

1. 1. 12 2. 6 3. 9
 2. 1. 15 sq cm 2. 20 sq cm 3. 9 sq cm

Page No. 173 Worksheet

1. 1. 16cm, 7sq cm 2. 10cm, 6sq cm 3. 4cm, 1sq, cm
 4. 12cm, 8sq, cm
 2. A

Page No. 174

1. 1. 14 2. 12 3. 16 4. 9

2. ~~///~~ ~~///~~ ~~///~~

~~///~~ /

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Page No. 175

3. 1. 10 2. bus 3. plane 4. 3 5. 23

4. 10 4 1 5

Page No. 176

4. 1. 10 2. 8 3. 2 4. 30

Page No. 177

1. 70 30 50 60 90 40

1. 80 2. 30 3. 90 4. Saturday 5. Wednesday 6. 420

Page No. 178

1. 18 2. 14 3. cartoons 4. news 5. movies 6. 16 7. 4 8. cartoons

Page No. 179

5 5 7 16 12 45

1. 17 2. 11 3. 4 5. 45

Model Test Paper

1. 1. 3 2. 10 3. 2

2. $47 + 10 + 12 = 69$

3. 1. 85, 9 2. 75, 5, 1

4. $56, 80 - 24 = 56$

5. 30

6. 1. 3 2. 6

7. 1. $18m\ 50cm$ 2. $22kg\ 100g$ 3. $16l\ 250ml$ 4. $5km\ 500m$

8. 1. 4608 2. 28864 3. 38610 4. 63992

9. 1. Q 1697 R 0 2. Q 534 R 0

10. 16

11. 918

12. AB, BC, CD, DA

14. three

15. 46:00

16. 1. Red 2. Green 3. 4 4. 5 5. 40 6. 22

17. 1. 1125 2. 900 3. 11:50 4. 992