

Answers

Exercise - 1

- (a) 1 (b) 9 (c) 99 (d) 100 (e) 0
- (a) Three hundred and five
(b) Four hundred and fifty one
(c) Nine hundred and five
(d) One hundred and eighty eight
(e) Five hundred and ten
(f) Seven thousand three hundred and fifteen
(g) Six thousand nine hundred and forty
(h) Nine thousand nine hundred and three
- (a) 626 (b) 572 (c) 950 (d) 803 (e) 289
(f) 5,811 (g) 7,672 (h) 6,800 (i) 3,808 (j) 9,003
- Predecessors- 525, 928, 657, 4623 and 999
Successor- 527, 930, 659, 4625 and 1001
- (a) $700+9$ (b) $300+60+8$ (c) $900+80+7$
(d) $200+40+5$ (e) $1000+200+30+6$
(f) $9000+800+70+5$
- (a) 639 (b) 760 (c) 902 (d) 8561 (e) 7204
- (a) 29, 34, 48, 76, 85 (b) 58, 61, 78, 86, 97
(c) 309, 325, 421, 615, 876
(d) 309, 402, 556, 632, 768
(e) 297, 705, 870, 875, 972
- (a) 87, 64, 55, 35, 29 (b) 95, 83, 76, 54, 29
(c) 905, 873, 756, 621, 183 (d) 777, 666, 555, 444, 333
(e) 905, 606, 509, 502, 304
- (a) 524, 525, 526, 527, 528, 529, 530, 531
(b) 628, 629, 630, 631, 632, 633, 634, 635, 636, 637
(c) 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970
- (a) 542, 524, 452, 425, 254, 245
(b) 954, 945, 594, 549, 495, 459
(c) 840, 804, 480, 408
(d) 752, 725, 572, 527, 275, 257
(e) 960, 906, 690, 609
- (a) 984; 489 (b) 750; 507 (c) 632; 236
(d) 940; 409 (e) 873; 378
- (a) 586, 588, 590 (b) 855, 845, 835
(c) 445, 450, 455 (d) 491, 391, 291
(e) 504, 512, 520
- (a) 80 (b) 700 (c) 5 (d) 70 (e) 20
(f) 7000 (g) 0 (h) 1
- (a) > (b) < (c) = (d) < (e) >
(f) > (g) = (h) = (i) > (j) =
- (a) 83 (b) 1174 (c) 983 (d) 1154 (e) 1198
(f) 1107
- (a) 711 (b) 662 (c) 806 (d) 199 (e) 7308
(f) 7481

- (a) 168 (b) 194 (c) 1227 (d) 2810 (e) 17080
(f) 2280
- (a) 21 (b) 18 (c) 19 (d) 12
(e) $Q=150$ $R=1$ (f) 432
- (a) 368 (b) 393 (c) 284 (d) 317 (e) 217
(f) 519
- (a) ₹33 P 52 (b) ₹54 P 18 (c) ₹101
(d) ₹14.75 (e) ₹26.17 (f) ₹39.51
(g) 84 km 655 m (h) 263 km 152 m
(i) 94 m 55 cm (j) 86 m 97 cm
(k) 54 kg 332 g (l) 38 kg 119 g
- (a) ₹13.11 (b) ₹59.44 (c) ₹45.25
(d) ₹24 P 03 (e) ₹23 P 54 (f) ₹69 P 05
(g) 22 km 141 m (h) 43 km 891 m
(i) 22 km 921 m (j) 15 m 94 cm
(k) 24 kg 311 g (l) 48 kg 828 g
- 585 23. 341 24. 299 25. 156
- 282 27. Do Yourself
- (a) 4 (b) 3 (c) 3 (d) 5

Exercise - 2A

- (a) 43,433 (b) 31,423 (c) 43,244 (d) 24,315
- (a) 9000 (b) 20000 (c) 700 (d) 7
(e) 90 (f) 4000
- (a) 5000 (b) 50000 (c) 50 (d) 5
- Do yourself
- Do yourself
- (a) Seventy two thousand three hundred and fifty
(b) Seventy thousand and five hundred
(c) Twenty five thousand nine hundred and seventy five
(d) Seventy two thousand eight hundred and seventy two
(e) Forty nine thousand three hundred and eighty six
- (a) 13066 (b) 40400 (c) 49805 (d) 30031 (e) 74064
- (a) 9000 (b) 40000 (c) 30000 (d) 50000 (e) 28000
(f) 39000
- (b) $20000+8000+700+80+4$
(c) $20000+9000+500+60+2$
(d) $40000+8000+900+70+6$
(e) $30000+5000+600+80+3$
(f) $70000+3000+800+90+6$
- Do yourself
- (b) 25696 (c) 36755 (d) 42489 (e) 57744 (f) 68371
(g) 70732 (h) 88507 (i) 92670 (j) 19399
- (a) a. 15550, 15555, 15560, 15565, 15570, 15575, 15580, 15585, 15590, 15595, 15600, 15605
b. 26400, 26405, 26410, 26415, 26420, 26425, 26430, 26435, 26440, 26445, 26450, 26455

- c. 35725, 35730, 35735, 35740, 35745, 35750, 35755, 35760, 35765, 35770, 3575, 35780
- (b) a. 25300, 25310, 25320, 25330, 25340, 25350, 25360, 25370, 25380, 25390, 25400, 25410
- b. Do yourself
- c. Do yourself
- (c) a. 18350, 18450, 18550, 18650, 18750, 18850, 18950, 19050, 19150, 19250, 19350, 19450
- b. 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200
- c. 55570, 55670, 55770, 55870, 55970, 56070, 56170, 56270, 56370, 56470, 56570, 56670

13. (a) 3059; 9530 (b) 4079; 9740
(c) 20579; 97520 (d) 35789; 98573
(e) 35679; 97653 (f) 20789; 98720
(g) 40579; 97540 (h) 12579; 97521
(i) 20679; 97620 (j) 30457; 75430

Exercise - 2B

1. (i) 18,68,80,90 (ii) 52,64,68,100
(iii) 108,300,420,768,826
(iv) 770,218,968,356,126
(v) 886,752,982
2. (i) 785,857, 875,587 (ii) 329,293,239,923
(iii) 41,55,67,57 (iv) 41,69,51,103
(v) 427,247
3. (i) 62,64,66,68,70,72,74,76, 78,80,82,84,86,88,90,92
(ii) 106,108,110,112,114,116,118,120,122,124,126,128,130, 132,134
(iii) 38,40,42,44,46,48,50,52,54,56,58,60,62,64,66
(iv) 208,210,212,214, 216,218,220,222,224,226
(v) 312,314,316,318,320,322, 324,326,328,330
4. (i) 45,47,49,51,53,55,57,59
(ii) 75,77,79,81,83,85,87,89
(iii) 325,327,329,331,333,335, 337,339
(iv) 561,563,565,567,569,571,573,575,577
(v) 813,815,817,819,821,823,825,827,829,831
5. **odd:** 85,89,407,905,387,561,921,563,8057, 9069,3025,1029,3527
even: 72,138,302,216,1256,3256,7950,7892, 4268,1000

Exercise - 3A

1. 5785 2. 11359 3. 7798 4. 8599 5. 9999
6. 9588 7. 9689 8. 9698 9. 5999 10. 7389
11. 8679 12. 8999 13. 67898 14. 99999 15. 47978
16. 97989 17. 97988 18. 98999 19. 50563 20. 98874
21. (a) 8476 (b) 7977 (c) 55988 (d) 99996 (e) 9039
(f) 4698 (g) 5888 (h) 77688 (i) 83406 (j) 40579

Exercise - 3B

1. 8144 2. 11863 3. 18081 4. 6080 5. 15110
6. 10372 7. 9741 8. 17795 9. 10650 10. 8369

11. 19514 12. 15537 13. 12196 14. 21519 15. 17057
16. 9082
17. (a) 13294 (b) 12922 (c) 11969 (d) 12134 (e) 8164
(f) 19631 (g) 8361 (h) 14855

Exercise - 3C

1. 43761 2. 107130 3. 112183 4. 71106
5. 123000 6. 111110 7. 120414 8. 69382
9. 77973 10. 150740 11. 129537 12. 188996
13. 112452 14. 161800 15. 116849 16. 96205
17. 43143 18. 53122 19. 1560459 20. 724950
21. (a) 167765 (b) 123977 (c) 188887 (d) 127498
(e) 553552 (f) 147385 (g) 950527 (h) 888808
(i) 321803 (j) 131965

Exercise - 3D

1. 3795 2. 18533 3. 17373 4. 8695
5. 76268 6. 86051 7. 82693 8. 92671
9. 90174 10. 70383 11. 19998 12. 11469
13. 7999 14. $999+100=1099$
15. $100000+99999=199999$ 16. 18614 17. 7375
18. 59007 19. 62673 20. 17946

Exercise - 3E

1. 1432 2. 0 3. 2403 4. 8156,4163
5. 1249,5487 6. 2873 7. 215,5547 8. 7776
9. 5761 10. 0 11. 147,2163 12. 834
13. 100 14. 3819 15. 3791,2893 16. 1834

Exercise - 4A

1. 2217 2. 5213 3. 6401 4. 7333
5. 4223 6. 3431 7. 12411 8. 23203
9. 75101 10. 12421 11. 4211 12. 9622
13. 2322 14. 9851 15. 1153 16. 85621
17. 54120 18. 41262 19. 74311 20. 80302

Exercise - 4B

1. 4589 2. 7872 3. 3498 4. 1019
5. 6198 6. 5898 7. 56083 8. 7211
9. 36808 10. 49847 11. 25287 12. 32560
13. 32498 14. 639056 15. 802707 16. 86549
17. 78016 18. 9001 19. 45005 20. 31769
21. 4709 22. 8829 23. 30001 24. 8825
25. 23607 26. 84625 27. 89911 28. 69568
29. 68996

Exercise - 4C

1. 5072 2. 856 3. 12392 4. 36432
5. 3704 6. 5076 7. 00000 8. 5, 6, 5, 1, 0
9. 5, 5; 9, 9 10. 0, 1; 1, 3 11. 6576 12. 3851

Exercise - 4D

1. 1882 2. 6580 3. 8749 4. 4995
5. 8520 6. In 1998; 15489 7. 28987
8. 11059 9. 8211 10. 1 11. 18621
12. 17889 13. 57096 14. 5542 15. 6813
16. 4892 17. 70308 18. 8397
19. No, correct answer is 26593 20. 1980

Exercise - 4E

1. 286 2. 3705 3. 6162 4. 964
 5. 2940 6. 6267 7. 5043 8. 23901
 9. 10241 10. 50218 11. 7529 12. 42381
 13. 8531 14. 1899 15. 18635 16. 4879
 17. 4079 18. 4481 19. 50755
 20. 7; 2, 9; 6, 3 21. 3, 9; 2, 4, 9 22. 42795 23. 20856
 24. 65453 25. 7, 0; 5, 7, 1 26. 12496 27. 33003
 28. 13670 29. 3336 30. 22382

Exercise - 5A

1. (a) 24 (b) 56 (c) 20 (d) 54 (e) 49
 (f) 0 (g) 50 (h) 36 (i) 105 (j) 84
 (k) 80 (l) 68 (m) 0 (n) 30 (o) 126
 (p) 0 (q) 114 (r) 100 (s) 135 (t) 128
 (u) 119 (v) 171 (w) 144 (x) 0 (y) 112
2. (a) $6+6+6+6+6+6+6+6=48$
 (b) $10+10+10+10+10=50$
 (c) $12+12+12=36$
 (d) $15+15+15+15+15+15+15=105$
 (e) $11+11+11+11+11+11+11+11+11=99$
 (f) $8+8+8+8+8+8+8+8+8+8=80$
 (g) $15+15+15+15+15=75$
3. (a) 10 (b) 6 (c) 8 (d) 5 (e) 8
 (f) 5 (g) 7 (h) 9 (i) 16 (j) 5
 (k) 0 (l) 1
4. (a) 5 (b) 7 (c) 10 in each box
 (d) 12 in each box (e) 8
5. (a) 15 (b) 10 (c) 7 (d) 325
 (e) 563,985 (f) 5 (g) 24 (h) 26
 (i) 8,7 (j) 212,214

Exercise - 5B

1. 48 2. 84 3. 69 4. 108 5. 219
 6. 328 7. 459 8. 100 9. 292 10. 729
 11. 68 12. 1209 13. 1839 14. 1290 15. 639
 16. 608 17. 3288 18. 468 19. 1290 20. 729
 21. 4864 22. 8408 23. 8066 24. 16068 25. 35050

Exercise - 5C

1. 92 2. 105 3. 92 4. 184 5. 372
 6. 375 7. 336 8. 567 9. 584 10. 504
 11. 470 12. 1248 13. 6440 14. 927 15. 4890
 16. 2210 17. 1808 18. 1975 19. 3715 20. 2315
 21. 738 22. 618 23. 8704 24. 32200 25. 10465
 26. 42510 27. 129 28. 684 29. 336 30. 1344
 31. 3888 32. 89991

Exercise - 5D

1. (a) 620 (b) 180 (c) 6200 (d) 3200
 (e) 690000 (f) 25100 (g) 55000 (h) 6050
 (i) 15000 (j) 70500 (k) 82100 (l) 95000
 (m) 34000 (n) 24790 (o) 88800
2. (a) 500 (b) 5000 (c) 5000 (d) 25400
 (e) 250000 (f) 250000 (g) 20500 (h) 905000

- (i) 30900 (j) 7500 (k) 70800 (l) 60000
 3. (a) 750 (b) 640 (c) 540 (d) 1080
 (e) 380 (f) 4500 (g) 6400 (h) 13600
 (i) 70000 (j) 9900 (k) 11200 (l) 9500
 4. (a) 1000 (b) 6000 (c) 8000 (d) 9800
 (e) 90000 (f) 8500 (g) 11200 (h) 60000
 (i) 7800 (j) 63000
 5. (a) 240 (b) 2400 (c) 24000 (d) 4800
 (e) 70000 (f) 96000 (g) 150000 (h) 90000
 (i) 90000 (j) 240000 (k) 96000 (l) 98000
 (m) 36000 (n) 400000 (o) 84000

Exercise - 5E

1. 210 2. 180 3. 192 4. 216
 5. 264 6. 525 7. 512 8. 1116
 9. 1245 10. 324 11. 3768 12. 10712
 13. 10845 14. 12670 15. 5776 16. 8976
 17. 11145 18. 25795 19. 47580 20. 72918
 21. 1440 22. 1120 23. 2160 24. 3870
 25. 4480 26. 4100 27. 3800 28. 2800
 29. 4320 30. 6750 31. 3600 32. 4200
 33. 8100 34. 6400 35. 3500 36. 1600
 37. 4000 38. 21000 39. 5400 40. 27000
 41. 5000 42. 18250 43. 18540 44. 22800
 45. 43680 46. 19710 47. 12810 48. 68110
 49. 23600 50. 28120 51. 28800 52. 140000
 53. 292000 54. 82800 55. 48000 56. 65000
 57. 9000 58. 38400 59. 28800 60. 451000
 61. 120 62. 360 63. ₹4500 64. 60000
 65. 990 66. 12500 67. 1800 68. 160
 69. 300 70. 19200

Exercise - 5F

1. 1955 2. 2538 3. 3901 4. 4503
 5. 7968 6. 2070 7. 6264 8. 7802
 9. 5451 10. 2025 11. 1125 12. 585
 13. 2465 14. 4968 15. 4872 16. 4977
 17. 5312 18. 5238 19. 3572 20. 4418
 21. 2668 22. 2475 23. 1848 24. 1833
 25. 6164 26. 3348 27. 2475

Exercise - 5G

1. 40211 2. 60431 3. 44688 4. 46201
 5. 41028 6. 59556 7. 65132 8. 39732
 9. 35845 10. 26448 11. 61676 12. 36912
 13. 73350 14. 29600 15. 78052 16. 101112
 17. 52710 18. 30690 19. 1336181 20. 1985428
 21. 1848075 22. 2865687 23. 1875420

Exercise - 5H

1. 12600 2. 98901 3. 10470 4. 23845
 5. 13200 6. 87752 7. 15946 8. 11500
 9. ₹3480 10. 43650 11. 13800 12. ₹12150
 13. 108992 14. 20838 15. 3475 16. ₹10325
 17. 1800 18. 266652 19. 744 20. 5200

Exercise - 6A

- (a) $Q=5, R=0$ (b) $Q=7, R=0$ (c) $Q=9, R=0$
(d) $Q=6, R=4$ (e) $Q=7, R=3$ (f) $Q=8, R=4$
(g) $Q=15, R=7$ (h) $Q=7, R=0$ (i) $Q=7, R=20$
(j) $Q=8, R=0$ (k) $Q=3, R=50$ (l) $Q=4, R=109$
(m) $Q=3, R=0$ (n) $Q=2, R=139$ (o) $Q=4, R=69$
- (a) 9 (b) 9 (c) 6 (d) 9 (e) 5
(f) 8 (g) 9 (h) 10 (i) 112 (j) 0
- (a) $Q=4, R=5$ (b) $Q=7, R=5$ (c) $Q=8, R=1$
(d) $Q=5, R=2$ (e) $Q=4, R=5$ (f) $Q=7, R=4$
(g) $Q=9, R=1$ (h) $Q=9, R=3$ (i) $Q=9, R=10$
(j) $Q=9, R=12$
- (a) 5, 65, 65
(b) $6 \times 14 = 84, 14 \times 6 = 84$
(c) $9 \times 16 = 144, 16 \times 9 = 144$
(d) $10 \times 18 = 180, 18 \times 10 = 180$
(e) $8 \times 10 = 80, 10 \times 8 = 80$
(f) $7 \times 13 = 91, 13 \times 7 = 91$
(g) $5 \times 19 = 95, 19 \times 5 = 95$
(h) $7 \times 12 = 84, 12 \times 7 = 84$
(i) $7 \times 17 = 119, 17 \times 7 = 119$
(j) $9 \times 14 = 126, 14 \times 9 = 126$
(k) $8 \times 18 = 144, 18 \times 8 = 144$
- (a) 14, 5 (b) 162, 18, 9
(c) $175 + 5 = 35, 175 + 35 = 5$
(d) $800 + 40 = 20, 800 + 20 = 40$
(e) $135, 135 + 9 = 15, 135 + 15 = 9$
(f) $128, 128 + 8 = 16, 128 + 16 = 8$
(g) $0, 0 + 25 = 0, 25 + 0 = 0$
(h) $175, 175 + 7 = 25, 175 + 25 = 7$
(i) $500, 500 + 10 = 50, 500 + 50 = 10$
(j) $192, 192 + 3 = 64, 192 + 64 = 3$
- (a) 3 (b) 0 (c) 6 (d) 15 (e) 7
(f) 0 (g) 315 (h) 218 (i) 0
- (a) x (b) x (c) + (d) + (e) x
(f) x (g) x, + (h) + (i) +, +
- 6 9. 4 10. 9

Exercise - 6B

- (a) 5 (b) 7 (c) 8 (d) 9
(e) 9 (f) 9 (g) 8 (h) 8
(i) $Q=6, R=3$ (j) $Q=9, R=1$
(k) $Q=7, R=5$ (l) $Q=6, R=2$
- (a) $Q=6, R=7$ (b) $Q=8, R=3$ (c) $Q=9, R=3$
(d) $Q=8$ (e) $Q=8$ (f) $Q=8, R=5$
(g) $Q=8, R=1$ (h) $Q=9, R=5$
- (a) 36 (b) 47 (c) 33 (d) 56

Exercise - 6C

- (a) 21 (b) 21 (c) 321 (d) 22 (e) 210
(f) $Q=40, R=1$ (g) $Q=320, R=2$ (h) $Q=12, R=3$
(i) $Q=226, R=1$ (j) $Q=140, R=4$ (k) $Q=18, R=2$
(l) $Q=104$
- (a) $Q=129, R=2$ (b) $Q=150, R=5$ (c) $Q=181, R=1$

- (d) $Q=297$ (e) $Q=112, R=3$ (f) $Q=28, R=1$
(g) $Q=190$ (h) $Q=160, R=2$ (i) $Q=254$
(j) $Q=190, R=1$ (k) $Q=130$ (l) $Q=102$
- 13 150 70 180
122 333 164

Exercise - 6D

- (a) 231 (b) 302 (c) 201 (d) 110
(e) 120 (f) 200 (g) 100 (h) 110
(i) 202 (j) 162
- (a) 231 (b) 321 (c) 300 (d) 111
(e) 101 (f) 110 (g) 100 (h) 120
(i) 241 (j) 312
- Divide and check yourself.
- Divide and check yourself.
- Divide and check yourself.
- (a) $Q=94$ (b) $Q=93, R=5$ (c) $Q=92$
(d) $Q=90, R=5$ (e) $Q=120, R=4$ (f) $Q=96, R=3$
(g) $Q=98, R=1$ (h) $Q=56, R=1$ (i) $Q=50, R=4$
(j) $Q=98, R=4$

Exercise - 6E

- (a) 1125 (b) 2131 (c) 2012 (d) 1925 (e) 2185
(f) 2354 (g) 2456 (h) 1801 (i) 1004 (j) 1040
- (a) 412 (b) 581 (c) 543 (d) 363 (e) 501
(f) 500 (g) 640 (h) 432 (i) 501 (j) 484
- (a) $Q=575, R=5$ (b) $Q=2300, R=3$
(c) $Q=401, R=1$ (d) $Q=220, R=3$
(e) $Q=900, R=8$ (f) $Q=620, R=3$
(g) $Q=126$ (h) $Q=500, R=4$
(i) $Q=810, R=4$ (j) $Q=696, R=4$
- (a) $Q=735, R=5$ (b) $Q=629, R=6$
(c) $Q=400, R=3$ (d) $Q=645, R=5$
(e) $Q=771, R=6$ (f) $Q=156, R=4$
(g) $Q=609$ (h) $Q=187, R=6$
(i) $Q=786, R=3$ (j) $Q=869$
- $Q=20$ 6. $Q=124, R=7$ 7. $Q=245, R=5$
- 2726 9. 165 10. 3333

Exercise - 6F

- (a) $Q=6, R=2$ (b) $Q=7, R=5$ (c) $Q=8$
(d) $Q=9, R=1$ (e) $Q=20, R=4$ (f) $Q=362, R=5$
(g) $Q=81$ (h) $Q=90, R=5$ (i) $Q=375, R=6$
(j) $Q=210, R=7$
- (a) $Q=8, R=12$ (b) $Q=7, R=3$ (c) $Q=4, R=60$
(d) $Q=8$ (e) $Q=91, R=35$ (f) $Q=76, R=2$
(g) $Q=77, R=60$ (h) $Q=29, R=14$ (i) $Q=8, R=8$
(j) $Q=8, R=6$ (k) $Q=91, R=23$ (l) $Q=21, R=5$
(m) $Q=70, R=7$ (n) $Q=80, R=54$ (o) $Q=90, R=32$
- (a) $Q=8, R=7$ (b) $Q=78, R=0$ (c) $Q=73, R=2$
(d) $Q=4, R=15$ (e) $Q=40, R=56$ (f) $Q=769, R=2$
(g) $Q=91, R=27$ (h) $Q=3, R=245$ (i) $Q=6, R=70$
(j) $Q=9, R=125$ (k) $Q=8, R=1$ (l) $Q=707, R=3$
(m) $Q=40, R=98$ (n) $Q=40, R=16$ (o) $Q=64, R=38$

Exercise - 6G

- Q=6, R=4
 - Q=72, R=10
 - Q=64, R=0
 - Q=50, R=6
 - Q=637, R=8
 - Q=50, R=18
 - Q=536, R=1
 - Q=244, R=10
 - Q=434, R=14
 - Q=586, R=2
- Q=29, R=1
 - Q=404, R=5
 - Q=600, R=13
 - Q=504, R=5
 - Q=700, R=4
 - Q=500, R=6
 - Q=40, R=8
 - Q=206, R=14
 - Q=578, R=3
 - Q=161, R=17
 - Q=150, R=6
 - Q=468, R=5
- 50
 - 50
 - 61
 - 70
 - 12
 - 101
 - 60
 - 60
 - 500
 - 1005

Exercise - 6H

- 99
- 94
- 95
- ₹ 87
- 30 and 5 is left
- 53 and 1 is left
- 801
- ₹251
- 340
- 1120
- 40 and ₹2 returned
- 98
- Q=666, R=9
- 5183

Exercise - 7A

- square
 - triangle
 - rectangle
 - circle
- O
 - C
 - O
 - C
- No
 - Yes
 - No
 - Yes
- cuboid
 - sphere
 - cube
 - cylinder
- A, B, C, D, E, H, I, K, M, O, T, U, V, W, X, Y
- book, brick, matchbox
 - ball, globe, laddoo
 - cell, can, tumbler
- Do yourself.
- paper, mirror, blackboard
 - football, balloon, globe
 - computer mouse, mobile phone, clock
- Do yourself.

Exercise - 7B

- centre
 - curved
 - square
 - 3, 3
 - rectangle
- rectangle
 - circle
 - square
- 2
 - 5
- Do yourself

Exercise - 7C

- cube
 - three
 - faces
 - paper
 - apex
- cuboid
 - sphere
 - cube
 - cylinder
 - cone
- book, brick, matchbox
 - dice, ice cube, Rubik's puzzle
 - battery cell, water tank, coffee mug
 - top, birthday cap, ice cream cone
 - ball, globe, playing marble

Exercise - 8A

- -
 -
 -
 -
 -
- -
 -
 -
 -
 -
 -

Exercise - 8B

- X, Y, X, Y, X, Y, X, Y, X
 - M2, N1, M1, N2, M2, N1, M1, N2, M2
 - 1, 2, 3, 1, 2, 3, 1, 2, 3
 - L, M, O, P, R, S, U, V

(e) 05, 05, 50, 50, 05, 05, 50, 50, 05, 05

(f) 35, 40, 45, 50, 55, 60, 65, 70, 75

(g) 19, 22, 25, 28, 31, 34, 37, 40, 43

(h) 8S, 9R, 10Q, 11P, 12O, 13N, 14M, 15L

2. (a) DG, DH, EI, EJ, FK, FL, GM, GN, HO

(b) QOP, OPQ, PQO, QOP, OPQ, PQO, QOP, OPQ, PQO, QOP

(c) 9B6, 9A6, 6B9, 6A9, 9B6, 9A6, 6B9, 6A9, 9B6, 9A6

(d) BD, AB, CD, AC, BD, AB, CD, AC, BD, AB

(e) 2341, 3412, 4123, 1234, 2341, 3412, 4123, 1234, 2341, 3412

(f) 7G7, 8H8, 9I9, 10J10, 11K11, 12L12, 13M13, 14N14, 15O15

(g) 8S, 5T, 8U, 5U, 8S, 5T, 8U

Exercise - 9A

Exercise - 9B

Exercise - 9C

Exercise - 9D

Do yourself.

1. a) $\frac{2}{3}$ b) $\frac{1}{4}$ c) $\frac{2}{4}$ d) $\frac{1}{3}$ e) $\frac{3}{4}$
 2. a) $\frac{1}{6}, \frac{5}{6}$ b) $\frac{2}{5}, \frac{3}{5}$ c) $\frac{7}{16}, \frac{9}{16}$
 1. a) $\frac{1}{4}$ b) $\frac{1}{3}$ c) $\frac{1}{6}$ d) $\frac{1}{2}$ e) $\frac{2}{4}$ f) $\frac{3}{8}$

1. i) $\frac{7}{11}, \frac{4}{11}, \frac{6}{11}, \frac{10}{11}$ ii) $\frac{3}{13}, \frac{2}{13}, \frac{9}{13}, \frac{6}{13}$ iii) $\frac{1}{8}, \frac{3}{8}$
 iv) $\frac{18}{23}, \frac{12}{23}, \frac{19}{23}, \frac{11}{23}$ v) $\frac{9}{16}, \frac{5}{16}, \frac{11}{16}$ vi) $\frac{9}{11}, \frac{3}{11}, \frac{1}{11}$
 vii) $\frac{20}{29}, \frac{14}{29}, \frac{4}{29}$
 2. i) $\frac{8}{13}, \frac{17}{29}$ ii) $\frac{27}{29}, \frac{29}{31}$ iii) $\frac{15}{41}, \frac{28}{53}$ iv) $\frac{14}{19}, \frac{10}{17}$ v) $\frac{27}{41}, \frac{18}{61}$

3. (i) Unlike (ii) Like (iii) Like (iv) Like (v) Unlike (vi) Like (vii) Like (viii) Unlike

4. i) $\frac{8}{12}, \frac{10}{15}, \frac{12}{18}$ ii) $\frac{2}{2}, \frac{3}{3}, \frac{4}{4}, \frac{5}{5}, \frac{6}{6}$
 iii) $\frac{9}{10}, \frac{9}{10}, \frac{9}{10}, \frac{9}{10}, \frac{9}{10}$; $\frac{9}{10} = \frac{18}{20} = \frac{27}{30} = \frac{36}{40} = \frac{45}{50} = \frac{54}{60}$
 iv) $\frac{7 \times 3}{12 \times 3} = \frac{7 \times 4}{12 \times 4} = \frac{7 \times 5}{12 \times 5} = \frac{7 \times 6}{12 \times 6} = \frac{7 \times 7}{12 \times 7}$; $\frac{7}{12} = \frac{21}{36} = \frac{28}{48} = \frac{35}{60} = \frac{42}{72} = \frac{49}{84}$

5. i) $\frac{8}{14} = \frac{12}{21} = \frac{16}{28} = \frac{20}{35} = \frac{24}{42}$ ii) $\frac{6}{16} = \frac{9}{24} = \frac{12}{32} = \frac{15}{40} = \frac{18}{48}$
 iii) $\frac{14}{22} = \frac{21}{33} = \frac{28}{44} = \frac{35}{55} = \frac{42}{66}$ iv) $\frac{16}{26} = \frac{24}{39} = \frac{32}{52} = \frac{40}{65} = \frac{48}{78}$
 v) $\frac{6}{40} = \frac{9}{60} = \frac{12}{80} = \frac{15}{100} = \frac{18}{120}$ vi) $\frac{16}{30} = \frac{24}{45} = \frac{32}{60} = \frac{40}{75} = \frac{48}{90}$
 vii) $\frac{18}{28} = \frac{27}{42} = \frac{36}{56} = \frac{45}{70} = \frac{54}{84}$ viii) $\frac{28}{34} = \frac{42}{51} = \frac{56}{68} = \frac{70}{85} = \frac{84}{102}$
 ix) $\frac{30}{32} = \frac{45}{48} = \frac{60}{64} = \frac{75}{80} = \frac{90}{96}$ x) $\frac{22}{30} = \frac{33}{45} = \frac{44}{60} = \frac{55}{75} = \frac{66}{90}$

6. i) $\frac{20}{28}$ ii) $\frac{30}{50}$ iii) $\frac{49}{63}$ iv) $\frac{4}{16}$ v) $\frac{35}{40}$ vi) $\frac{66}{102}$ vii) $\frac{7}{15}$ viii) $\frac{18}{22}$
 ix) $\frac{25}{85}$ x) $\frac{2}{3}$ xi) $\frac{24}{27}$ xii) $\frac{6}{7}$ xiii) $\frac{10}{28}$ xiv) $\frac{45}{65}$ xv) $\frac{7}{13}$ xvi) $\frac{25}{70}$
 xvii) $\frac{27}{51}$ xviii) $\frac{4}{9}$ xix) $\frac{48}{52}$ xx) $\frac{66}{102}$

7. (i) Not (ii) Yes (iii) Yes (iv) Yes (v) Not (vi) Yes (vii) Not (viii) Yes (ix) Not

8. i) $\frac{8}{20}$ ii) $\frac{15}{20}$ iii) $\frac{14}{20}$ iv) $\frac{10}{20}$ v) $\frac{4}{20}$ vi) $\frac{3}{20}$ vii) $\frac{5}{20}$ viii) $\frac{4}{20}$
 9. i) $\frac{10}{30}$ ii) $\frac{12}{30}$ iii) $\frac{25}{30}$ iv) $\frac{21}{30}$ v) $\frac{26}{30}$ vi) $\frac{3}{30}$ vii) $\frac{5}{30}$ viii) $\frac{5}{30}$
 10. i) $\frac{27}{36}$ ii) $\frac{16}{36}$ iii) $\frac{30}{36}$ iv) $\frac{21}{36}$ v) $\frac{24}{36}$
 11. i) $\frac{24}{32}$ ii) $\frac{24}{30}$ iii) $\frac{24}{27}$ iv) $\frac{24}{26}$ v) $\frac{24}{44}$
 12. i) $\frac{32}{40}$ ii) $\frac{32}{60}$ iii) $\frac{32}{34}$ iv) $\frac{32}{112}$

Exercise - 9E

1. (i) > (ii) < (iii) > (iv) < (v) < (vi) > (vii) > (viii) < (ix) > (x) < (xi) > (xii) > (xiii) > (xiv) > (xv) < (xvi) < (xvii) > (xviii) < (xix) > (xx) < (xxi) <

2. i) $\frac{3}{13}, \frac{12}{13}$ ii) $\frac{8}{19}, \frac{16}{19}$ iii) $\frac{2}{9}, \frac{8}{9}$ iv) $\frac{2}{15}, \frac{9}{12}$ v) $\frac{4}{15}, \frac{13}{15}$
 vi) $\frac{8}{17}, \frac{8}{9}$ vii) $\frac{12}{31}, \frac{13}{13}$ viii) $\frac{13}{25}, \frac{13}{15}$ ix) $\frac{31}{55}, \frac{31}{28}$ x) $\frac{15}{43}, \frac{15}{19}$

3. i) $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{6}{8}, \frac{7}{8}$ ii) $\frac{10}{23}, \frac{11}{23}, \frac{14}{23}, \frac{15}{23}, \frac{20}{23}$
 iii) $\frac{15}{41}, \frac{18}{41}, \frac{19}{41}, \frac{29}{41}, \frac{38}{41}$ iv) $\frac{9}{55}, \frac{16}{55}, \frac{21}{55}, \frac{24}{55}, \frac{38}{55}$
 v) $\frac{9}{43}, \frac{13}{43}, \frac{15}{43}, \frac{18}{43}, \frac{31}{43}$ vi) $\frac{10}{19}, \frac{10}{17}, \frac{10}{16}, \frac{10}{13}, \frac{10}{11}$
 vii) $\frac{15}{37}, \frac{15}{31}, \frac{15}{29}, \frac{15}{19}, \frac{15}{17}$ viii) $\frac{33}{49}, \frac{33}{43}, \frac{33}{41}, \frac{33}{37}, \frac{33}{35}$
 ix) $\frac{18}{35}, \frac{18}{31}, \frac{18}{29}, \frac{18}{25}, \frac{18}{23}$ x) $\frac{16}{49}, \frac{16}{41}, \frac{16}{37}, \frac{16}{27}, \frac{16}{17}$

4. i) $\frac{10}{17}, \frac{9}{17}, \frac{8}{17}, \frac{4}{17}, \frac{3}{17}$ ii) $\frac{24}{29}, \frac{18}{29}, \frac{17}{29}, \frac{15}{29}, \frac{11}{29}$
 iii) $\frac{19}{20}, \frac{13}{20}, \frac{9}{20}, \frac{8}{20}, \frac{7}{20}$ iv) $\frac{38}{56}, \frac{27}{56}, \frac{19}{56}, \frac{18}{56}, \frac{15}{56}$
 v) $\frac{38}{60}, \frac{23}{60}, \frac{20}{60}, \frac{19}{60}, \frac{17}{60}$ vi) $\frac{15}{19}, \frac{15}{24}, \frac{15}{27}, \frac{15}{39}, \frac{15}{48}$
 vii) $\frac{43}{53}, \frac{43}{63}, \frac{43}{73}, \frac{43}{83}, \frac{43}{93}$ viii) $\frac{19}{21}, \frac{19}{24}, \frac{19}{27}, \frac{19}{28}, \frac{19}{31}$
 ix) $\frac{25}{34}, \frac{25}{41}, \frac{25}{49}, \frac{25}{56}, \frac{25}{63}$ x) $\frac{20}{27}, \frac{20}{29}, \frac{20}{31}, \frac{20}{41}, \frac{20}{53}$

5. (i) > (ii) = (iii) > (iv) > (v) < (vi) = (vii) < (viii) < (ix) < (x) >

Exercise - 9F

1. i) $\frac{5}{8}$ ii) $\frac{10}{11}$ iii) $\frac{16}{17}$ iv) $\frac{7}{16}$ v) $\frac{11}{17}$ vi) $\frac{28}{29}$ vii) $\frac{7}{8}$ viii) $\frac{17}{32}$
 ix) $\frac{2}{3}$ x) $\frac{6}{11}$ xi) $\frac{1}{2}$ xii) $\frac{4}{9}$ xiii) $\frac{7}{8}$ xiv) $\frac{9}{10}$ xv) $\frac{3}{4}$ xvi) $1\frac{3}{4}$
 xvii) $1\frac{2}{3}$ xviii) $\frac{2}{3}$ xix) $\frac{13}{19}$ xx) $\frac{5}{8}$ xxi) $\frac{8}{11}$ xxii) $\frac{11}{19}$
 xxiii) $\frac{9}{11}$ xxiv) $\frac{9}{13}$ xxv) $\frac{18}{25}$ xxvi) $\frac{35}{41}$ xxvii) $\frac{41}{55}$ xxviii) $\frac{16}{21}$
 xxix) $\frac{3}{4}$ xxx) $\frac{24}{25}$

2. i) $\frac{19}{25}$ ii) $\frac{32}{41}$ iii) $\frac{49}{62}$ iv) $\frac{35}{47}$ v) $\frac{23}{27}$ vi) $\frac{39}{62}$ vii) $\frac{23}{27}$ viii) $\frac{62}{125}$
 3. (i) 5 (ii) 5 (iii) 19 (iv) 5 (v) 4 (vi) 3 (vii) 7 (viii) 15 (ix) 14 (x) 5 (xi) 5 (xii) 2 (xiii) 13 (xiv) 10 (xv) 9
 4. $\frac{9}{10}$ 5. $\frac{6}{9}$ 6. $\frac{38}{75}$ 7. $\frac{39}{100}$
 8. (i) < (ii) < (iii) = (iv) > (v) > (vi) > (vii) < (viii) >

Exercise - 9G

- $\frac{3}{10}$
 - $\frac{5}{17}$
 - $\frac{11}{18}$
 - $\frac{1}{13}$
 - $\frac{1}{3}$
 - $\frac{1}{5}$
 - $\frac{3}{7}$
 - $\frac{4}{33}$
 - $\frac{11}{38}$
 - $\frac{23}{55}$
 - $\frac{9}{65}$
 - $\frac{11}{67}$
 - $\frac{42}{85}$
 - $\frac{26}{105}$
 - $\frac{8}{97}$
 - $\frac{1}{4}$
 - $\frac{3}{8}$
 - $\frac{1}{9}$
 - $\frac{1}{4}$
 - $\frac{3}{26}$
- $\frac{7}{17}$
 - $\frac{2}{11}$
 - $\frac{15}{31}$
 - $\frac{1}{5}$
 - $\frac{3}{22}$
 - $\frac{1}{16}$
 - $\frac{1}{6}$
 - $\frac{2}{5}$
 - $\frac{5}{14}$
 - $\frac{5}{101}$
- 4
 - 20
 - 7
 - 17
 - 9
 - 8
 - 23
 - 43
 - 11
- $\frac{2}{5}$
 - $\frac{9}{19}$
 - $\frac{4}{27}$
 - $\frac{6}{31}$
 - $\frac{11}{23}$
 - $\frac{3}{14}$
 - $\frac{4}{13}$
 - $\frac{13}{25}$
 - $\frac{20}{31}$
 - $\frac{18}{37}$
 - $\frac{1}{5}$
 - $\frac{4}{11}$
- Son
- $\frac{6}{17}$
- $\frac{6}{29}$
- $\frac{21}{37}, \frac{4}{37}$
- $\frac{3}{7}$
- $\frac{12}{31}$

Exercise - 10A

- 10
 - 5
 - 4
 - 2
 - 50
 - 2
 - 1
 - 1
 - 5
 - 1
- Twenty one rupees and fifteen paise
 - Fifty rupees and five paise
 - Eighty one rupees and ninety-two paise
 - Forty rupees and sixty paise
 - Eight paise
 - One hundred twenty-five rupees and twelve paise
 - Three hundred seventy-five rupees and eighty paise
 - One hundred rupees
 - One paise
 - Seventy-five rupees and seventy-five paise
- ₹ 14.14
 - ₹ 82.72
 - ₹ 125.14
 - ₹ 18.17
 - ₹ 52.36
 - ₹ 103.09
 - ₹ 111.11
 - ₹ 462.79
 - ₹ 215.07
 - ₹ 30.30
 - ₹ 86.71
 - ₹ 412.99
 - ₹ 305.70
- Rupees 44 and 96 paise = 44×100 paise + 96 paise = 4400 paise + 96 paise = 4496 paise
 - Rupees 29 and 92 paise = 29×100 paise + 92 paise = 2900 paise + 92 paise = 2992 paise
 - Rupees 18 and 62 paise = 18×100 paise + 62 paise = 1800 paise + 62 paise = 1862 paise
 - Rupees 39 and 83 paise = 39×100 paise + 83 paise = 3900 paise + 83 paise = 3983 paise
 - Rupees 215 and 51 paise = 215×100 paise + 51 paise = 21500 paise + 51 paise = 21551 paise
 - Rupees 416 and 20 paise = 416×100 paise + 20 paise = 41600 paise + 20 paise = 41620 paise
 - Rupees 1 and 5 paise = 1×100 paise + 5 paise = 100 paise + 5 paise = 105 paise
 - 67 paise
 - Rupees 10 and 1 paise = 10×100 paise + 1 paise = 1000 paise + 1 paise = 1001 paise
 - 3 paise

- Rupees 8 and 34 paise = 8×100 paise + 34 paise = 800 paise + 34 paise = 834 paise
- Rupees 49 and 49 paise = 49×100 paise + 49 paise = 4900 paise + 49 paise = 4949 paise
- Rupees 414 and 62 paise = 414×100 paise + 62 paise = 41400 paise + 62 paise = 41462 paise
- Rupees 199 and 98 paise = 199×100 paise + 98 paise = 19900 paise + 98 paise = 19998 paise
- Rupees 915 and 8 paise = 915×100 paise + 8 paise = 91500 paise + 8 paise = 91508 paise

- 421 paise = $421 \div 100 = ₹4.21$
 - 2708 paise = $2708 \div 100 = ₹27.08$
 - 816 paise = $816 \div 100 = ₹8.16$
 - 2856 paise = $2856 \div 100 = ₹28.56$
 - 12163 paise = $12163 \div 100 = ₹121.63$
 - 4150 paise = $4150 \div 100 = ₹41.50$
 - 7580 paise = $7580 \div 100 = ₹75.80$
 - 5 paise = $5 \div 100 = ₹0.05$
 - 25 paise = $25 \div 100 = ₹0.25$
 - 13419 paise = $13419 \div 100 = ₹134.19$
 - 2 paise = $2 \div 100 = ₹0.02$
 - 219 paise = $219 \div 100 = ₹2.19$
 - 81 paise = $81 \div 100 = ₹0.81$
 - 7 paise = $7 \div 100 = ₹0.07$
 - 20909 paise = $20909 \div 100 = ₹209.09$
- 28.51
 - 4.19
 - 9.05
 - 44.44
 - 314.19
 - 90.06
 - 805.63
 - 70.01

Exercise - 10B

- ₹65 and P 87
 - ₹98 and P 79
 - ₹170 and P 97
 - ₹111 and P 84
 - ₹106 and P 01
 - ₹58 and P 32
 - ₹533 and P 66
 - ₹338 and P 07
 - ₹214 and P 82
 - ₹700 and P 29
 - ₹255 and P 51
 - ₹319 and P 00
- ₹155.55
 - ₹92.18
 - ₹45.85
 - ₹233.47
 - ₹570.98
 - ₹239.06
 - ₹1158.20
 - ₹239.50
 - ₹239.97
- ₹120.02
 - ₹175.79
 - ₹200.47
 - ₹379.26
 - ₹286.25
 - ₹156.30
 - ₹163.47
 - ₹177.37
 - ₹628.85
 - ₹366.35
- 35 rupees 5 paise
 - 120 rupees and 58 paise
 - 86 rupees and 10 paise
 - 158 rupees and 97 paise
 - 89 rupees and 81 paise
 - 622 rupees and 45 paise
 - 120 rupees and 15 paise

Exercise - 10C

- ₹72 and P 34
 - ₹15 and P 23
 - ₹14 and P 12
 - ₹464 and P 33
 - ₹532 and P 32
 - ₹49 and P 18

- (g) ₹32 and P 02
 (i) ₹44 and P 54
 (k) ₹188 and P 06
 (m) ₹168 and P 67
 (o) ₹370 and P 32

- (h) ₹54 and P 24
 (j) ₹66 and P 03
 (l) ₹675 and P 53
 (n) ₹440 and P 72

2. (a) ₹64.36 (b) ₹6.84 (c) ₹69.04 (d) ₹74.55
 (e) ₹5.02 (f) ₹60.36 (g) ₹35.75 (h) ₹61.26
 (i) ₹63.66 (j) ₹64.63 (k) ₹294.36 (l) ₹153.64
 3. (a) ₹106.13 (b) ₹38.08 (c) ₹68.27 (d) ₹99.19
 (e) ₹369.99 (f) ₹127.67 (g) ₹13.86 (h) ₹53.18
 (i) ₹141.23 (j) ₹125.78
 4. (a) Rupees 13 paise 48 (b) Rupees 29 paise 82
 (c) Rupees 58 paise 88 (d) Rupees 53 paise 28
 (e) Rupees 7 paise 58 (f) Rupees 15 paise 34
 (g) Rupees 109 paise 54 (h) Rupees 62 paise 79
 (i) Rupees 7 paise 22 (j) Rupees 199 paise 37
 (k) Rupees 17 paise 96 (l) Rupees 69 paise 92
 (m) Rupees 46 paise 85 (n) Rupees 197 paise 48
 (o) Rupees 287 paise 28 (p) Rupees 41 paise 68

Exercise - 10D

1. ₹122.25 2. ₹321.15 3. ₹47.55 4. ₹68.80
 5. ₹481.75 6. ₹262.25 7. ₹170.75 8. ₹81.25
 9. ₹133.37 10. ₹342.66

Exercise - 10E

1. (a) ₹96.60 (b) ₹483.69 (c) ₹136.74 (d) ₹229.50
 (e) ₹554.04 (f) ₹349.86 (g) ₹92.82 (h) ₹945.72
 (i) ₹1521.76
 2. (a) ₹105 P 87 (b) ₹374 P 65 (c) ₹925 P 75
 (d) ₹194 P 15 (e) ₹176 P 58 (f) ₹320 P 72
 3. (a) ₹295.68 (b) ₹264.81 (c) ₹843.20
 (d) ₹603.92 (e) ₹163.50 (f) ₹574.56
 (g) ₹754.38 (h) ₹529.41 (i) ₹1950.30
 (j) ₹ 943.36

Exercise - 10F

1. (a) ₹7 (b) ₹6 (c) ₹7 (d) ₹10
 (e) ₹4 (f) ₹4 (g) ₹10 (h) ₹6
 (i) ₹9 (j) ₹6
 2. (a) ₹20.09 (b) ₹14.17 (c) ₹19.36 (d) ₹8.01
 (e) ₹31.30 (f) ₹34.70 (g) ₹10.70 (h) ₹46.14
 (i) ₹30.05
 3. (a) Rupees 7 paise 29 (b) Rupees 12 paise 56
 (c) Rupees 10 paise 06 (d) Rupees 9 paise 22
 (e) Rupees 6 paise 91 (f) Rupees 61 paise 58
 (g) Rupees 9 paise 08 (h) Rupees 25 paise 89

Exercise - 10G

1. ₹192.40 2. ₹301.16 3. ₹17.15 4. ₹22.78
 5. ₹18.50 6. ₹46.03 7. ₹1429 8. ₹168.74
 9. ₹ 21.25

Exercise - 11A

1. (a) 12,000 mm (b) 8,000 g (c) 15,000 ml
 (d) 90 hg (e) 2,100 ml (f) 16,000 dm

2. (a) 9719 m (b) 3212 mg (c) 752 l (d) 508 g
 (e) 8,012 ml (f) 409 dm
 3. (a) 9250 m (b) 4760 dg (c) 9050 cl (d) 760 dag
 (e) 720 dl (f) 12,080 mm
 4. (a) 90 cg (b) 8 l (c) 70 m
 5. (a) 5 m 12 cm (b) 3 dal 19 dl (c) 8 kg 5 hg
 (d) 9 hl 53 l (e) 1 g 25 cg (f) 3 km 15 dam

Exercise - 11B

1. (a) 9 km 60 m (b) 14 g 78 cg (c) 19 l 3 dl
 (d) 7 kg 823 g (e) 12 hm 76 dm (f) 17 hg 49 dg
 (g) 15 hl 43 l (h) 15 km 88 m
 2. (a) 11 m 87 cm (b) 7 kg 440 g (c) 12 l 587 ml
 (d) 35 hg 77 g
 3. (a) 13 km 80 dam (b) 38 g 60 cg (c) 15 hl
 (d) 20 l 212 ml
 4. 60 km 875 m 5. 111 kg 96 g 6. 19 km 950 m
 7. 9 kg 275 g 8. 17 l 175 ml

















Exercise - 11C

1. (a) 2 g 41 cg (b) 5 kg 77 g (c) 6 hm 72 dm
 (d) 7 l 9 dl (e) 5 km 951 m (f) 4 hl 27 l
 (g) 5 hg 979 dg (h) 8 km 23 m
 2. (a) 7 m 870 mm (b) 11 hg 54 g (c) 13 l 943 ml
 (d) 6 kg 35 g (e) 3 hm 32 m (f) 15 dl 98 ml
 3. (a) 5 dg 35 mg (b) 8 g 86 cg (c) 1 km 52 dam
 (d) 24 hm 18 m (e) 16 hl 205 dl (f) 15 l 950 ml
 4. 54 kg 975 g 5. 1 m 90 cm 6. 50 l 175 ml
 7. 66 kg 590 g

Exercise - 11D

1. (a) 57 kg 484 g (b) 21 m 220 mm (c) 28 kl 935 l
 (d) 21 hm 186 dm (e) 16 dal 520 cl (f) 25 g 325 mg
 (g) 18 l 30 ml (h) 36 hg 5 g (i) 16 m 18 cm
 2. (a) 11 g 23 cg (b) 14 m 23 cm (c) 10 hl 2 l
 (d) 35 l 421 ml (e) 10 km 21 m (f) 12 g 354 mg
 (g) 12 m 21 cm (h) 14 l 125 ml (i) 21 hg 53 g
 3. 39 km 375 m 4. 950 g 5. 18 kg 150 g
 6. Yes, 11375 ml 7. 12 m 45 cm 8. 5 km 865 m

Exercise - 12A

1. a)  b)  c)  d) 
 e)  f)  g)  h) 
 i)  j)  k)  l) 
 m)  n)  o)  p) 

2. (a) 1:00, 1 o'clock (b) 10:00, 10 o'clock
 (c) 8:00, 8 o'clock (d) 5:00, 5 o'clock
 (e) 10:15, quarter past ten (f) 5:15, quarter past five

- (g) 12:15, quarter past twelve
 (h) 6:15, quarter past six

Exercise - 12B

- (i) 6:30 a.m. (ii) 3:00 p.m. (iii) 7:30 a.m.
 (iv) 7:30 p.m. (v) 11:45 a.m. (vi) 12:15 p.m.
 (vii) 5:30 p.m. (viii) 7:15 p.m. (ix) 6:15 a.m.
 (x) 8:45 p.m. (xi) 1:00 p.m. (xii) 2:40 p.m.
 (xiii) 10:50 a.m. (xiv) 12:01 p.m. (xv) 12:01 a.m.
- (i) 6:00 a.m. (ii) 8:00 a.m. (iii) 5:45 p.m.
 (iv) 2:00 p.m. (v) 5:00 p.m. (vi) 9:30 p.m.
 (vii) 4:00 p.m. (viii) 9:00 p.m. (ix) 10:00 a.m.

Exercise - 12C

- (a) 5,60,300 (b) 18,60,1080 (c) 25,60,1500
- (a) 8,60,480 (b) 24,60,1440 (c) 35,60,2100
- (a) 7,24,168 (b) 12,24,288 (c) 27,24,648
- (a) 8,7,56 (b) 15,7,105 (c) 24,7,168
- (a) January (b) 31 (c) leap (d) 29
- (a) 3,30,90 (b) 18,30,540
- (a) 272 seconds (b) 725 seconds
 (c) 562 minutes (d) 915 minutes
 (e) 439 hours (f) 594 hours
 (g) 67 days (h) 87 days
- (a) 97 days (b) 375 days (c) 748 days
- 105 seconds 10. 155 minutes
- 51 hours 12. 49 days
- 65 days 14. 253 days

Exercise - 13A

- a) (i) Spiderman (ii) Iron Man (iii) 9 (iv) 36
 b) (i) Thursday (ii) Monday (iii) 20 (iv) 35

2. a)

| | |
|--------|---------------|
| Rabbit | ☺ ☺ ☺ ☺ |
| Cat | ☺ ☺ ☺ ☺ ☺ ☺ |
| Dog | ☺ ☺ ☺ ☺ ☺ ☺ ☺ |
| Fish | ☺ ☺ ☺ ☺ ☺ |
| Parrot | ☺ ☺ ☺ |

where 1 ☺ = 3 students

b)

| | |
|---------|-------------|
| Sarthak | 📖 📖 📖 |
| Danish | 📖 📖 |
| Chaaya | 📖 📖 📖 📖 📖 |
| Tarsem | 📖 |
| Jason | 📖 📖 📖 📖 📖 📖 |

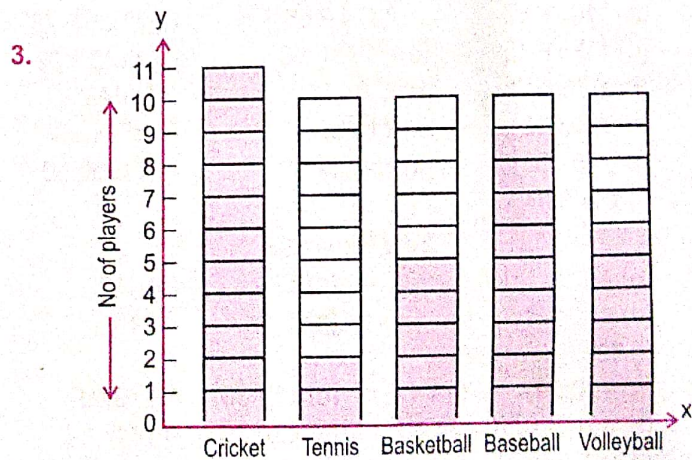
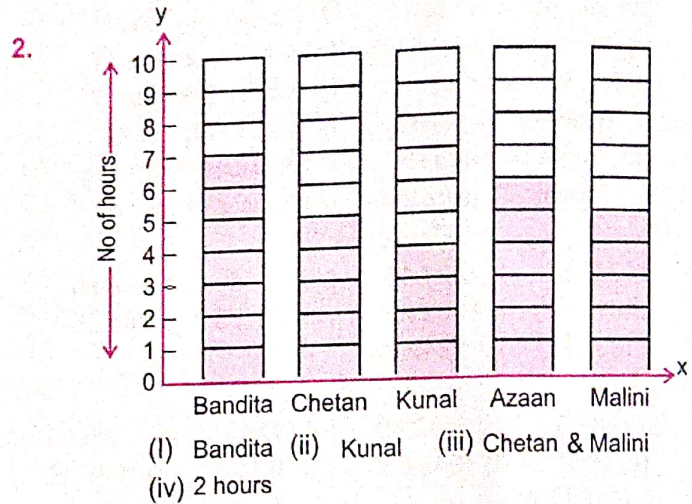
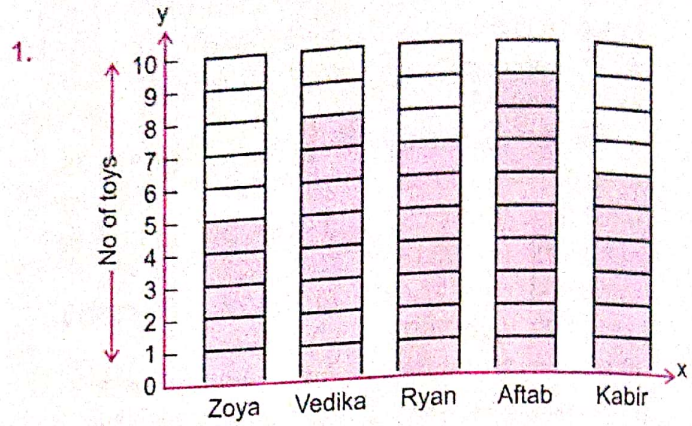
where 1 📖 = 5 storybooks

c)

| | |
|--------------|-----------------|
| Pizza | 🍕 🍕 🍕 🍕 |
| Dosa | 🍕 🍕 🍕 🍕 🍕 🍕 🍕 |
| Sandwich | 🍕 🍕 🍕 🍕 🍕 |
| Burger | 🍕 🍕 🍕 🍕 🍕 🍕 |
| Chole Bature | 🍕 🍕 🍕 🍕 |
| Cake | 🍕 🍕 🍕 🍕 🍕 🍕 🍕 🍕 |

where 1 🍕 = 2 Children

Exercise - 13B



Exercise - 13C

- (i)(b) (ii)(b) (iii)(b) (iv)(b) (v)(c)
- (i) 1st day, 320 (ii) 60 (iii) 60 (iv) 3rd day, 120
- (i) 18 (ii) shop 3 (iii) 52 (iv) 4

Exercise - 1A

- (a) 3,19,550 (b) 5,32,912
(c) 7,50,432 (d) 8,86,043
(e) 4,21,709 (f) 2,07,300
- (a) thousands: 2,000
(b) ten thousands: 70,000
(c) lakhs: 1,00,000
(d) hundreds: 0
- (a) two lakh twelve thousand seven hundred nineteen
(b) four lakh sixty nine thousand five hundred thirty five
(c) seven lakh fifty eight thousand three hundred forty
(d) one lakh thirty thousand four hundred ninety six
(e) five lakh twenty seven thousand six hundred eight
- (a) ninety six thousand one hundred forty eight: 96,148
(b) twenty eight thousand six hundred one: 28,601
(c) sixty three thousand two hundred eighty: 63,280
(d) three lakh seventy five thousand nine hundred seventy three: 3,75,973
(e) four lakh fifteen thousand seven hundred thirty nine: 4,15,739
(f) five lakh nine thousand four hundred fifty one: 5,09,451
(g) seven lakh forty eight thousand three hundred twelve: 7,48,312
(h) one lakh twenty thousand two hundred sixty: 1,20,260

Exercise - 1B

- (a) ten lakhs; 10,00,000 (b) crores: 0
(c) lakhs: 2,00,000 (d) ten crores: 80,00,00,000
- (a) 25,00,69,512 (b) 3,27,20,305
(c) 99,09,09,909 (d) 8,05,09,488
(e) 17,26,03,800
- (a) 80,91,525 (b) 2,74,19,231
(c) 63,04,75,005
- (a) 6,32,83,452 (b) 3,69,50,999
(c) 18,41,80,000 (d) 4,57,31,499
(e) 5,10,62,100 (f) 9,28,39,999
- (a) sixty crore thirty-eight lakh thirty five thousand eight hundred fifty eight
(b) forty eight crore fifty one lakh sixty thousand four hundred thirty nine
(c) seventy five crore seventy two lakh forty one thousand nine hundred fifteen
(d) ninety two crore sixty lakh seventy two thousand six hundred
(e) three crore fourteen lakh ninety nine thousand three hundred seventy

- (a) crores, ten lakhs, 3, ten thousands, 1, hundred, 9, ones
(b) 9,00,00,000; 3,00,000; 10,000; 600; 2
(c) 6, lakhs, 9, thousands, hundreds, 0, ones
(d) 1; 1,00,00,000; 0; 1,00,000; 10,000; 9; 100; 10; 8

Exercise - 1C

- (a) < (b) < (c) > (d) >
- (a) 9,87,53,210; 1,02,35,789
(b) 9,99,84,321; 1,11,23,489
(c) 8,88,88,753; 3,33,33,578
(d) 4,44,44,420; 2,00,00,004
- (a) 41,30,00,000 (b) 37,00,00,000 (c) 62,05,64,000
(d) 91,94,03,800 (e) 19,00,00,000 (f) 17,80,00,000
(g) 4,84,00,000 (h) 39,64,15,300 (i) 8,72,17,000
(j) 8,00,00,000 (k) 11,00,00,000 (l) 83,06,44,000
- (a) 9,65,34,165; 65,09,37,483;
65,09,37,843; 85,13,42,912
(b) 8,36,14,942; 8,36,42,105; 14,36,95,712;
18,42,35,409
(c) 32,15,94,584; 32,16,93,475; 32,19,49,642;
32,19,94,365
- (a) 14,63,85,906; 14,36,85,906; 14,36,85,096;
9,48,36,971
(b) 36,50,30,178; 36,50,03,178; 36,05,30,178;
36,05,03,178
(c) 81,63,42,175; 81,63,24,517; 9,63,54,163;
9,63,45,163
- (a) 73,15,89,110 (b) 73,15,89,100 (c) 73,15,89,000
(d) 73,16,00,000 (e) 73,16,00,000 (f) 73,20,00,000
- (a) 84,00,000 (b) 31,00,000 (c) 45,00,000
(d) 18,00,000 (e) 28,00,000 (f) 17,00,000

Exercise - 1D

- (a) millions: 3,000,000 (b) hundred thousands: 400,000
(c) hundred millions: 800,000,000 (d) ten millions: 0
- (a) 9,700,416 (b) 12,240,970
(c) 236,005,089 (d) 700,062,432
- (a) ninety million one hundred seven thousand three hundred eight (b) forty nine million two thousand five hundred (c) twelve million sixty eight thousand fifteen (d) six million four hundred seventy three thousand five hundred two
- (a) four crore (b) 60,00,00,000
(c) 64,32,45,301 (d) 10 crore (e) five lakh
(f) thirty two crore fifty seven lakh forty thousand two hundred thirteen.
- (a) 6,903,718: six million nine hundred three thousand seven hundred eighteen (b) 9,054,268: nine million

fifty four thousand two hundred sixty eight (c) 4,350,216: four million three hundred fifty thousand two hundred sixteen (d) 2,815,034: two million eight hundred fifteen thousand thirty four (e) 83,957,105: eighty three million nine hundred fifty seven thousand one hundred five (f) 52,863,079: fifty two million eight hundred sixty three thousand seventy nine (g) 65,042,943: sixty five million forty two thousand nine thousand nine hundred forty three (h) 34,701,954: thirty four million seven hundred one thousand nine hundred fifty four (i) 300,453,808: three hundred million four hundred fifty three thousand eight hundred eight (j) 735,05,505: seven hundred thirty five million fifty thousand five hundred five (k) 498,210,351: four hundred ninety eight million two hundred ten thousand three hundred fifty one (l) 643,092,883: six hundred forty three million ninety two thousand eight hundred eighty three

Exercise - 2A

- (a) 74,16,93,404 (b) 79,77,04,362
(c) 90,24,74,259 (d) 91,30,96,601
(e) 79,32,94,184 (f) 96,33,02,301
- (a) 21,00,98,908 (b) 34,41,72,505
(c) 48,11,66,109 (d) 21,04,14,556
(e) 41,84,79,142 (f) 19,27,09,853
- (a) 81,51,00,037 (b) 27,59,78,090
(c) 68,96,31,518 (d) 38,08,,18,130
(e) 8,00,00,000 (f) 71,76,00,662
(g) twenty two crore ninety three lakh ninety nine thousand six hundred twenty two
- (a) 9,90,46,268 (b) 4,23,32,761
(c) 5,18,73,421 (d) 11,45,83,659
(e) thirteen crore fifty nine lakh thirty six thousand three hundred thirty three
- (a) 23,88,49,698 (b) 52,64,51,928
- (a) 28,86,04,219 (b) 54,87,05,296
(c) 41,68,33,289
(d) sixty three crore nineteen lakh nine thousand one hundred four
- 18,56,569 people 8. 42,07,57,683
- 1,84,7,326 10. Andhra Pradesh: 1,60,32,340
- Rs. 72,66,550 12. Rs. 35,77,533 13. 1,10,82,349
- 54,10,390 15. 6,56,01,318 16. 90,00,001

Exercise - 2B

- (a) 10,92,000 (b) 15,68,000 (c) 496000
(d) 5,25,000
- (a) 7,16,300 (b) 12,86,800 (c) 17,23,200
(d) 62,60,100 (e) 1,66,82,000 (f) 31,05,000
(g) 16,47,000 (h) 75,06,000
- (a) 3,649; 365 (b) 84,659; 3 (c) 24; 946
(d) 5,791; 45 (e) 564; 2
- (a) 1,27,06,553 (b) 2,46,74,647 (c) 1,54,42,897
(d) 62,27,886 (e) 3,24,68,304 (f) 1,44,14,767

- (a) 1,10,40,748 (b) 2,49,23,078 (c) 3,69,98,976
(d) 1,77,64,068 (e) 3,17,34,934 (f) 1,40,50,450
(g) 1,47,37,563 (h) 1,44,96,048
- (a) 3,841 (b) 8,253
- (a) Q=657 ; R=36 (b) Q=256; R=36
(c) Q=634; R=25 (d) Q=23456; R=9
(e) Q=5842; R=27 (f) Q=5432; R=0
(g) Q=3743; R=40 (h) Q=1242; R=0
- (a) 89,81,280 (b) 1,63,42,272
(c) 2,20,55,130 (d) 88,00,732
(e) 1,03,55,208 (f) 2,29,10,580
(g) 93,38,000 (h) 3,56,22,720
- (a) 65 (b) Q=352; R=364
(c) Q=8463; R=147 (d) Q=9826; R=286
- (a) 83,20,141 (b) 563 (c) 38,052 (d) 614
- 2,68,821 12. 5,364
- 18,67,582 14. 49 15. Rs 6,87,112
- 30,79,699 17. 7,29,600 18. 1,24,25,852 bulbs
- 4,12,672 words 20. 255 apples

Exercise - 3A

- (a) No (b) Yes (c) No (d) Yes (e) No (f) Yes (g) No
(h) Yes (i) Yes
- (a) 28 (b) factor (c) 7,2,14 (d) multiple
- (a) 7,29,43 (b) 3,19,23,61,79
- (a) 25,64,77,82 (b) 15,49,55,87,98
- (a) 2,4,6,8,10 (b) 3,6,9,12,15 (c) 5,10,15,20,25
(d) 7,14,21,28,35 (e) 9,18,27,36,45 (f) 12,24,36,48,60
(g) 15,30,45,60,75 (h) 17,34,51,68,85
(i) 23,46,69,92,115 (j) 25,50,75,100,125
(k) 28,56,84,112,140 (l) 32,64,96,128,160
- (a) 1,2,3,6,9,18 (b) 1,2,3,4,6,8,12,24 (c) 1,3,9,27
(d) 1,2,4,8,16,32 (e) 1,2,3,4,6,8,12,16,24,48
(f) 1,2,4,7,8,14,28,56 (g) 1,2,3,4,6,8,9,12,18,24,36,72
(h) 1,3,9,27,81 (i) 1,2,4,23,46,92 (j) 1,2,7,14,49,98
(k) 1,2,3,4,6,8,10,12,15,20,30,40,60,120
(l) 1,2,3,4,5,6,9,10,12,15,18,20,30,36,45,60,90,180
- (a) 1 (b) 0 (c) 2 (d) 0 (e) 0
- (a) 6 (b) 2 (c) 8 (d) 2 (e) 8
- (a) 1 (b) 4 (c) 4 (d) 6 (e) 7
- (a), (c) and (d) 11. (b), (c) and (e)
- 56,940; 31,270; 95,610
- 35,420; 63,720 14. (a) 1 (b) 2 (c) 6

Exercise - 3B

- (a) 1,3; HCF-3 (b) 1,2; HCF-2 (c) 1,2,4; HCF-4
(d) 1,2,4; HCF-4 (e) 1,5; HCF-5 (f) 1,2,5,10; HCF-10
(g) 1,2,3,4,6,12; HCF-12 (h) 1,2,3,6; HCF-6
- (a) 4 (b) 18 (c) 8 (d) 12
- (a) 10 (b) 12 (c) 18 4. (a) 15 (b) 21 (c) 37
- (a) 30 (b) 12 (c) 63 (d) 126
- (a) 21 (b) 18 (c) 30 (d) 15 (e) 60 (f) 70 (g) 84
(h) 105 (i) 8 (j) 12 (k) 12 (l) 15 (m) 2 (n) 30

7. (a) 13 (b) 17 (c) 1 (d) 25 (e) 7 (f) 9 (g) 4
(h) 11 (i) 108 (j) 1 (k) 60 (l) 14





Exercise - 3C

- (a) 120 (b) 2,520 (c) 6,300
- (a) 18, 36, 54, 72, 90, 108, 126, 144, 162, 180;
20, 40, 60, 80, 100, 120, 140, 160, 180, 200; 180
(b) 4, 8, 12, 16, 20, 24, 28, 32, 36, 40; 6, 12, 18, 24, 30, 36,
42, 48, 54, 60; 8, 16, 24, 32, 40, 48, 56, 64, 72, 80; 24
(c) 9, 18, 27, 36, 45, 54, 63, 72, 81, 90; 15, 30, 45, 60, 75,
90, 105, 120, 135, 150; 18, 36, 54, 72, 90, 108, 126, 144,
162, 180; 90
(d) 16, 32, 48, 64, 80, 96, 112, 128, 144, 160; 20, 40, 60,
80, 100, 120, 140, 160, 180, 200; 10, 20, 30, 40, 50, 60,
70, 80, 90, 100; 80
- (a) 420 (b) 15,750 (c) 8,820 (d) 5,250
- (a) 300 (b) 336 (c) 630 (d) 1,575
- (a) 2,100 (b) 4,410 (c) 24,750 (d) 24,255
- (a) 3,780 (b) 3,780 (c) 15,120 (d) 75,600
(e) 5,040 (f) 3,55,740 (g) 2,64,600
- (a) 14,280 (b) 3,388 (c) 936 (d) 1,890
(e) 18,200 (f) 15,048 (g) 8,160 (h) 4,536

Exercise - 4A

- (a) $5\frac{5}{7}$ (b) 5 (c) $4\frac{1}{13}$ (d) 7 (e) $7\frac{1}{11}$
(f) $12\frac{15}{17}$ (g) $20\frac{3}{5}$ (h) 30 (i) $4\frac{2}{3}$ (j) $30\frac{1}{5}$
(k) 5 (l) 16
- (a) $\frac{59}{7}$ (b) $\frac{38}{9}$ (c) $\frac{128}{13}$ (d) $\frac{71}{11}$ (e) $\frac{163}{15}$ (f) $\frac{307}{15}$
- (a) $\frac{2}{3}$ (b) $\frac{5}{8}$ (c) $\frac{5}{9}$ (d) $\frac{9}{17}$ (e) $\frac{7}{16}$
- (a) $\frac{8}{18}, \frac{12}{27}, \frac{16}{36}, \frac{20}{45}$ (b) $\frac{10}{14}, \frac{15}{21}, \frac{20}{28}, \frac{25}{35}$ (c) $\frac{20}{22}, \frac{30}{33}, \frac{40}{44}, \frac{50}{55}$
(d) $\frac{18}{26}, \frac{27}{39}, \frac{36}{52}, \frac{45}{65}$ (e) $\frac{30}{34}, \frac{45}{51}, \frac{60}{68}, \frac{75}{85}$
- (a) $\frac{14}{24}$ (b) $\frac{24}{45}$ (c) $\frac{4}{9}$ (d) $\frac{10}{13}$
- (a) $\frac{30}{34}$ (b) $\frac{36}{80}$ (c) $\frac{5}{8}$ (d) $\frac{17}{22}$
- (a) 20 (b) 27 (c) 60 (d) 3 (e) 6 (f) 3
(g) 18 (h) 45 (i) 18 (j) 49
- (a) $\frac{27}{42}, \frac{12}{42}, \frac{16}{42}, \frac{35}{42}$ (b) $\frac{65}{75}, \frac{60}{75}, \frac{48}{75}, \frac{50}{75}$ (c) $\frac{56}{64}, \frac{52}{64}, \frac{18}{65}, \frac{48}{64}, \frac{5}{64}$
(d) $\frac{4}{54}, \frac{30}{54}, \frac{14}{54}, \frac{36}{54}, \frac{108}{54}$
- (a) < (b) < (c) > (d) > (e) = (f) =
(g) < (h) <
- (a) $\frac{4}{9}, \frac{7}{15}, \frac{3}{5}, \frac{2}{3}$ (b) $\frac{5}{21}, \frac{8}{21}, \frac{13}{21}, \frac{16}{21}, \frac{19}{21}$
(c) $\frac{18}{31}, \frac{18}{29}, \frac{18}{25}, \frac{18}{23}, \frac{18}{19}$ (d) $\frac{5}{18}, \frac{7}{12}, \frac{13}{21}, 3, 4\frac{5}{9}$
(e) $\frac{5}{8}, \frac{17}{24}, \frac{3}{4}, \frac{13}{16}, \frac{11}{12}$
- (a) $\frac{24}{25}, \frac{24}{29}, \frac{24}{31}, \frac{24}{35}, \frac{24}{37}$ (b) $\frac{16}{17}, \frac{14}{17}, \frac{13}{17}, \frac{9}{17}, \frac{8}{17}$
(c) $\frac{11}{12}, \frac{5}{6}, \frac{7}{20}, \frac{3}{10}$ (d) $3\frac{5}{16}, 2\frac{3}{4}, \frac{31}{32}, \frac{35}{54}$
(e) $\frac{19}{20}, \frac{11}{12}, \frac{2}{3}, \frac{3}{5}, \frac{7}{15}$

Exercise - 4B

- (a) $\frac{3}{6}$ (b) $\frac{5}{9}$ (c) $\frac{6}{10}$ (d) $\frac{5}{16}$
- (a)  (b)  (c)  (d) 
- (a) $\frac{6}{10}, \frac{4}{10}$ (b) $\frac{7}{18}, \frac{11}{18}$ (c) $\frac{12}{20}, \frac{8}{20}$ (d) $\frac{9}{18}, \frac{9}{18}$
- (a) $3\frac{1}{2}$ (b) $1\frac{1}{5}$ (c) $2\frac{3}{4}$
- Unit fractions - $\frac{1}{7}, \frac{1}{13}, \frac{1}{45}, \frac{1}{3}, \frac{1}{28}$ 6. (a) $\frac{5}{13}$ (b) $\frac{23}{15}$
- (a) nu - 7, de - 15 (b) nu - 21, de - 37
(c) nu - 9, de - 11 (d) nu - 41, de - 57
(e) nu - 3, de - 5
- (a) $\frac{2}{5}$ (b) $\frac{7}{11}$ (c) $\frac{13}{29}$ (d) $\frac{27}{45}$ (e) $\frac{36}{52}$
- (a) $5 \div 9$ (b) $13 \div 15$ (c) $19 \div 25$ (d) $27 \div 36$
(e) $53 \div 97$
- (a) $\frac{3}{5}, \frac{9}{11}, \frac{4}{7}$ (b) $\frac{4}{7}, \frac{9}{11}, \frac{3}{7}$ (c) $\frac{21}{23}, \frac{17}{19}, \frac{12}{15}$ (d) $\frac{28}{35}, \frac{43}{96}, \frac{39}{53}$
- (a) $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}$ (b) $\frac{4}{7}, \frac{2}{7}, \frac{5}{7}, \frac{3}{7}$ (c) $\frac{7}{11}, \frac{5}{11}, \frac{9}{11}$
(d) $\frac{13}{21}, \frac{17}{21}, \frac{19}{21}$ 12. (a) $\frac{1}{2}, \frac{1}{3}, \frac{1}{15}, \frac{1}{23}, \frac{1}{45}$
(b) $\frac{1}{9}, \frac{4}{9}, \frac{5}{9}, \frac{3}{9}, \frac{7}{9}$ (c) $\frac{2}{5}, \frac{3}{8}, \frac{6}{11}, \frac{17}{21}, \frac{9}{15}$
(d) $\frac{13}{21}, \frac{5}{7}, \frac{15}{36}, \frac{24}{45}, \frac{9}{17}$ (e) $\frac{5}{2}, \frac{13}{7}, \frac{25}{11}, \frac{36}{31}, \frac{49}{23}$
(f) $2\frac{1}{3}, 5\frac{4}{9}, 3\frac{2}{5}, 9\frac{11}{13}, 15\frac{23}{45}$ (answer may vary)

Exercise - 5A

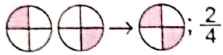


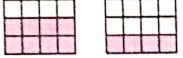
- (a) $\frac{6}{7}$ (b) $\frac{7}{9}$ (c) $\frac{4}{5}$ (d) $\frac{11}{12}$ (e) $\frac{17}{18}$ (f) $\frac{32}{36}$
- (a) > (b) < (c) >
- (a) $1\frac{3}{35}$ (b) $1\frac{5}{12}$ (c) $1\frac{17}{45}$ (d) $1\frac{16}{105}$ (e) $1\frac{9}{20}$
(f) $1\frac{9}{20}$ (g) $1\frac{2}{22}$ (h) $1\frac{1}{45}$ (i) $1\frac{144}{385}$ (j) $1\frac{49}{120}$
- (a) $7\frac{11}{18}$ (b) $4\frac{5}{8}$ (c) $8\frac{1}{36}$ (d) $8\frac{17}{30}$ (e) $11\frac{11}{36}$
(f) $14\frac{1}{100}$ (g) $10\frac{28}{45}$ (h) $7\frac{4}{5}$ (i) $14\frac{67}{90}$
- (a) $\frac{4}{5}$ part 6. $\frac{11}{15}$ 7. $\frac{7}{12}$ 8. $11\frac{9}{10}$ litres 9. $9\frac{26}{27}$ km

Exercise - 5B

- (a) $\frac{5}{9}$ (b) $\frac{8}{13}$ (c) $\frac{6}{15}$ (d) $\frac{8}{18}$ (e) $\frac{6}{21}$
(f) $\frac{5}{27}$ (g) $\frac{14}{35}$ (h) $\frac{21}{43}$
- (a) > (b) < (c) <
- (a) $\frac{13}{24}$ (b) $\frac{7}{18}$ (c) $\frac{1}{45}$ (d) $\frac{6}{35}$ (e) $\frac{1}{6}$
(f) $\frac{12}{175}$ (g) $\frac{8}{108}$ (h) $\frac{4}{9}$ (i) $\frac{1}{10}$ (j) $\frac{4}{35}$
- (a) $1\frac{2}{3}$ (b) $1\frac{4}{9}$ (c) $\frac{3}{5}$ (d) $2\frac{1}{6}$ (e) $\frac{1}{3}$
(f) $2\frac{1}{4}$ (g) $2\frac{3}{7}$ (h) $3\frac{2}{3}$ (i) $2\frac{4}{9}$ (j) $2\frac{5}{9}$
- (a) $3\frac{7}{18}$ (b) $4\frac{2}{27}$ (c) $2\frac{13}{24}$ (d) $1\frac{11}{18}$ (e) $1\frac{5}{12}$
(f) $3\frac{1}{6}$ (g) $2\frac{3}{70}$ (h) $3\frac{7}{36}$ (i) $2\frac{91}{135}$ (j) $2\frac{2}{45}$

6. (a) $3\frac{19}{24}$ (b) $8\frac{1}{30}$ (c) $7\frac{5}{24}$ (d) $5\frac{17}{18}$ (e) $7\frac{17}{24}$
 (f) $7\frac{59}{60}$ (g) $6\frac{67}{180}$ (h) $7\frac{167}{180}$ 7. $\frac{13}{60}$ metre
 8. $\frac{1}{60}$ metre 9. $\frac{21}{80}$ hour 10. $2\frac{1}{5}$ km
 11. second jump, $1\frac{1}{6}$ metre 12. $\frac{103}{105}$ litre
 13. $2\frac{11}{24}$ 14. ₹ 17 15. $29\frac{7}{30}$ km 16. $30\frac{19}{180}$ kg






Exercise - 5C

1. (a) ; $\frac{2}{4}$ (b) ; $\frac{6}{8}$
 2. (a) $7\frac{1}{5}$ (b) $1\frac{1}{3}$ (c) $5\frac{5}{6}$ (d) $2\frac{1}{7}$
 3. (a)  (b) 
 4. (a) $\frac{3}{7}$ (b) $\frac{8}{21}$ (c) $\frac{1}{8}$ (d) $\frac{1}{21}$
 5. (a) $2\frac{1}{7}$ (b) $3\frac{3}{5}$ (c) $5\frac{1}{4}$ (d) $2\frac{10}{13}$ (e) $23\frac{2}{3}$
 (f) $31\frac{1}{2}$
 6. (a) $\frac{20}{33}$ (b) $\frac{1}{3}$ (c) $\frac{10}{49}$ (d) $\frac{2}{5}$ (e) $\frac{1}{8}$
 (f) 13 (g) 20 (h) $5\frac{1}{3}$ (i) $26\frac{1}{4}$ (j) 12
 (k) $\frac{1}{7}$ (l) $\frac{3}{8}$ (m) $\frac{2}{27}$ (n) $\frac{1}{12}$ (o) $\frac{1}{8}$
 7. (a) $2\frac{1}{7}$ litres 8. ₹ 186 9. ₹ 2,2255 10. ₹ 148
 11. 5 km 12. $\frac{2}{3}$

Exercise - 5D

1. (a) 1 (b) 3 (c) $\frac{1}{6}$ (d) $\frac{10}{18}$
 2. (a) $\frac{5}{9}$ (b) $\frac{7}{13}$ (c) $\frac{23}{8}$ (d) $\frac{1}{15}$ (e) $\frac{1}{125}$
 3. (a) F (b) T (c) F
 4. (a) $\frac{1}{6}, \frac{2}{15}$ (b) $\frac{1}{4}, \frac{1}{10}$ (c) $\frac{1}{5}, \frac{4}{45}$
 5. (a) 18 (b) $6\frac{1}{3}$ (c) 42 (d) $34\frac{1}{2}$ (e) 92 (f) 56
 6. (a) $\frac{10}{9}$ (b) $\frac{4}{5}$ (c) $\frac{5}{3}$ (d) $\frac{9}{10}$ (e) $\frac{7}{6}$ (f) $\frac{6}{7}$
 7. (a) $\frac{5}{46}$ (b) $\frac{15}{39}$ (c) $\frac{9}{59}$ (d) $\frac{5}{13}$ (e) $\frac{13}{83}$
 (f) $\frac{7}{29}$ (g) $\frac{11}{37}$
 8. (a) $\frac{5}{11}$ (b) $\frac{4}{9}$ (c) $\frac{3}{4}$ (d) $\frac{2}{5}$ (e) $\frac{2}{7}$ (f) $\frac{5}{16}$
 9. (a) $1\frac{4}{5}$ (b) $2\frac{1}{2}$ (c) $3\frac{3}{5}$ (d) $4\frac{2}{7}$ (e) $9\frac{1}{3}$ (f) $6\frac{3}{4}$
 10. (a) $\frac{3}{5}$ (b) $1\frac{1}{5}$ (c) $1\frac{3}{5}$ (d) $1\frac{1}{2}$ (e) $1\frac{2}{3}$
 (f) $1\frac{3}{4}$ 11. $6\frac{2}{5}$ 12. 200 km 13. $\frac{3}{5}$ litre
 14. 10 pieces 15. 7 pieces 16. 9 bottles 17. 6
 18. 3 shirts 19. 43 minutes

Exercise - 6A

1. (a) 0.2 (b) 0.6 (c) 1.1 (d) 2.5 (e) 2.8
 2. (a)  (b)    

3. (a) 0.4 (b) 0.9 (c) 12.9 (d) 46.2
 4. (a) 0.08 (b) 0.19 (c) 3.49 (d) 12.48 (e) 0.053
 (f) 9.005 (g) 63.012 (h) 125.143
 5. (a) zero point seven (b) zero point zero seven (c) three point zero eight (d) six point zero zero four (e) fourteen point eight (f) fifteen point three five (g) nine point five six seven (h) sixteen point zero three (i) thirty five point three (j) eighteen point zero three four (k) two hundred three point one four (l) one hundred eighty two point six
 6. (a) 4.9; four point nine (b) 28.09; twenty eight point zero nine (c) 0.05; zero point zero five (d) 0.052; zero point zero five two (e) 15.36; fifteen point three six (f) 134.9; one hundred thirty four point nine (g) 8.632; eight point six three two (h) 125.3; one hundred twenty five point three (i) 38.050; thirty eight point zero five zero (j) 46.059; forty six point zero five nine (k) 163.093; one hundred sixty three point zero nine three (l) 14.009; fourteen point zero zero nine

Exercise - 6B

1. (a) $30 + 9 + 0.0 = 0.05 + 0.007$
 (b) $100 + 50 + 2 + \frac{8}{10} + \frac{9}{1000}$
 (c) 5 ten + 3 ones + 4 tenths + 8 hundredths + 9 thousandths
 2. (a) 21.525 (b) 5.398 (c) 103.709 (d) 85.092
 3.

| | Thousands | Hundreds | Tens | Ones | Decimal point | Tenths | Hundredths | Thousandths |
|-----|-----------|----------|------|------|---------------|--------|------------|-------------|
| (a) | | | 5 | 2 | - | 6 | 9 | |
| (b) | | 1 | 5 | 3 | - | 0 | 9 | |
| (c) | | | 9 | 4 | - | 3 | 6 | 7 |
| (d) | | 3 | 4 | 8 | - | 3 | 1 | 5 |

Place-value (a) tenths (b) tenths
 (c) hundredths (d) thousandths

4. (a) $5 + 0.3 + 0.04$; $(5 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (9 \times \frac{1}{1000})$
 (b) $10 + 2 + 0.7 + 0.08$; $(1 \times 10) + (2 \times 1) + (7 \times \frac{1}{10}) + (8 \times \frac{1}{100})$
 (c) $200 + 9 + 0.1 + 0.003$; $(2 \times 100) + (9 \times 1) + (1 \times \frac{1}{10}) + (3 \times \frac{1}{1000})$
 (d) $800 + 0.03 + 0.002$; $(8 \times 100) + (3 \times \frac{1}{100}) + (2 \times \frac{1}{1000})$
 (e) $300 + 40 + 6 + 0.9 + 0.05 + 0.004$; $(3 \times 100) + (4 \times 10) + (6 \times 1) + (9 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (4 \times \frac{1}{1000})$
 5. (a) 60.352 (b) 97.549 6. (a) hundredths
 (b) tenths (c) thousandths (b) hundredths

Exercise - 6C

1. (a) 0.9 (b) 0.18 (c) 0.3 (d) 0.05
 (e) 3.002 (f) 9.07 (g) 5.036 (h) 4.348
 2. (a) 0.2 (b) 3.75 (c) 29.625
 3. (a) $\frac{9}{100}$ (b) $\frac{3}{10}$ (c) $\frac{171}{1000}$ (d) $5\frac{17}{100}$
 (e) $12\frac{6}{100}$ (f) $6\frac{3}{1000}$ (g) $8\frac{399}{1000}$ (h) $6\frac{209}{1000}$
 (i) $12\frac{351}{1000}$ (j) $132\frac{27}{100}$

4. (a) 0.75 (b) 0.56 (c) 0.7 (d) 26.5 (e) 39.75 (f) 8.21
(g) 138.625 (h) 13.52 (i) 8.248 (j) 5.19 (k) 2.649
(l) 7.036
5. (a) 53.5 (b) 49.5 (c) 53.5 (d) 21.5 (e) 12.5
6. (a) $\frac{1}{2}$ (b) $\frac{34}{50}$ (c) $\frac{1}{250}$ (d) $3\frac{27}{50}$ (e) $6\frac{3}{5}$ (f) $\frac{691}{2}$
(g) $7\frac{1}{18}$ (h) $47\frac{99}{250}$ (i) $7\frac{384}{125}$ (j) $19\frac{71}{50}$ (k) $39\frac{1}{125}$ (l) $261\frac{9}{200}$

Exercise - 6D

1. (a) 8.700, 9.500, 1.438 (b) 5.370, 6.200, 183.950 (c) 6.200, 5.114, 13.345 (d) 18.300, 31.820, 9.005 (e) 8.100, 3.700, 12.600 (f) 125.240, 624.500, 34.342 (g) 21.500, 9.300, 12.800 (h) 82.530; 148.900, 8.057
2. (a) 5.053, 5.305, 5.350, 5.503 (b) 10.035, 10.503, 15.305, 15.503 (c) 8.453, 18.45, 184.30, 184.50 (d) 18.450, 18.540, 26.093, 26.93
3. (a) 7.340, 7.034, 4.703, 4.307 (b) 18.534, 18.435, 8.53, 8.354 (c) 17.501, 17.055, 17.051, 17.05 (d) 139.93, 139.39, 19.35, 13.92
4. Ratna
5. Dalvir, Aalam, Saara, Rohit

Exercise - 7A

1. (a) 138.34 (b) 69.233 (c) 382.76 (d) 20.431
2. (a) 13.56 (b) 20.886 (c) 89.449 (d) 14.853
3. (a) 63.97 (b) 19.64 (c) 73.344 (d) 192.85 (e) 320.424 (f) 30.573 (g) 21.315 (h) 260.175
4. (a) 10.28 (b) 11.242 (c) 168.321 (d) 23.053 (e) 25.596 (f) 455.538 (g) 272.03 (h) 8687.03
5. (a) 893.875 (b) 2195.77 (c) 338.583 (d) 3454.445 (e) 4580.689 (f) 3854.617
6. (a) ₹165.80 (b) 479.34 km (c) 198.65 kg (d) 232.46 l
7. (a) ₹ 29.40 (b) 20.6 km (c) 320.04 (d) 11.2kl (e) ₹ 9.20 (f) 20.99 m (g) 13.5 kg (h) 312.7 l

Exercise - 7B

1. (a) 126.4 (b) 3680 (c) 8973 (d) 547.5 (e) 3597.80 (f) 23400 (g) 1379 (h) 31280 (i) 6549 (j) 36370 (k) 1365 (l) 897.3
2. (a) 0.00135 (b) 0.0002 (c) 0.0001 (d) 0.00021 (e) 0.0004 (f) 0.00009
3. (a) 163.80 (b) 187.60 (c) 827.64 (d) 1000.3
4. (a) 0.006 (b) 0.08 (c) 0.02 (d) 0.007
5. (a) 0.00014 (b) 0.000084 (c) 0.00019 (d) 0.00018
6. (a) 284.8484 (b) 25.80336 (c) 314.8856 (d) 477.3636
7. (a) 185.492 (b) 657 (c) 1588.42 (d) 303.012 (e) 590.121 (f) 7878.42 (g) 121020.8 (h) 2644.92 (i) 710.22 (j) 1284.484 (k) 1711.908 (l) 3678.696
8. (a) 180.883 17.04645 (b) 170.2584 (c) 13.899 17 (d) 107.588 (e) 10.99008 (f) 17.04645 (g) 179.2584 (h) 181.1324 (i) 897.99 (j) 129.5518 (k) 5864.3 (l) 1903.125

Exercise - 7C

1. (a) 0.157 (b) 0.389 (c) 0.8275 (d) 0.059 (e) 0.0845 (f) 0.3479 (g) 3.65 (h) 1.358 (i) 6.2451
2. (a) 0.534 (b) 0.213 (c) 0.371 (d) 0.847
3. (a) 8.5403 (b) 0.8034 (c) 0.000727 (d) 32.65 (e) 0.6137

(f) 0.06945 (g) 0.04317 (h) 0.2953

4. (a) 5.302 (b) 5.812 (c) 0.309 (d) 4.903 (e) 8.028 (f) 2.456 (g) 6.394 (h) 3.005 (i) 3.094 (j) 0.073 (k) 0.297 (l) 0.541

Exercise - 7D

1. (a) 58500 (b) 8640 (c) 1581000
2. (a) 362.9 (b) 413.3 (c) 639.2 (d) 14.38 (e) 21.05 (f) 243.8 (g) 5007 (h) 574.3
3. (a) 350 (b) 560 (c) 290 (d) 470 (e) 480 (f) 360 (g) 4600 (h) 290
4. (a) 4.76 (b) 23.1 (c) 383 (d) 22.90 (e) 3.5 (f) 39030 (g) 488.32 (h) 5.41
5. (a) 5700 (b) 64,000 (c) 53,000 (d) 2900 (e) 280 (f) 38000 (g) 47,000 (h) 6,100

Exercise - 8A

1. (a) $56 - 6 + 7 \times 3$; 71 (b) $12 + 6 \times 5 - 30$; $12 + 30 - 30$; $42 - 30$; 12 (c) $7 \times 3 + 9 - 25$; $21 + 9 - 25$; $30 - 25$; 5
2. (a) 9 (b) 33 (c) 19 (d) 5 (e) 5 (f) 8 (g) 22 (h) 2 (i) 18
3. (a) $(3+5) \div 2$ (b) $15 - (4 \times 2)$ (c) $(7-2) \times 5$
4. (a) Add 9 to the product of 6 and 4. (b) Divide the difference of 30 and 9 by 30 (c) Multiply the quotient of 81 and 9 by 3. (d) Divide 25 by the sum of 3 and 2 (e) Add the difference of 7 and 3 to 5. (f) Subtract the product of 4 and 6 from 25.
5. (a) $36 - 2 \times \{(5 + 2)\}$
(b) $(15 - 3) \div (21 \div 7) - 21$; $8 \times 3 - 21$; 3
6. (a) $(5 + 4) \times (3 \times 2)$ (b) $(15 - 3) \div (2 \times 2)$
(c) $(4 + 3) - (9 \div 3)$ (d) $(21 \div 7) + (2 \times 5)$
7. (a) 17 (b) 12 (c) 13 (d) 11 (e) 2 (f) 20

Exercise - 9A

1. (a) 6% (b) 26% (c) 64% (d) 2.4% (e) 156%
2. (a) 24% (b) 29% (c) 70% (d) 85% (e) 25% (f) 0.01%
(g) $5\frac{3}{4}\%$ (h) 240% (i) 200% (j) 100%
3. (a) $\frac{8}{100}$ (b) $\frac{21}{100}$ (c) $\frac{32}{100}$ (d) $\frac{2.5}{100}$
(e) $\frac{60}{100}$ (f) $\frac{89}{100}$ (g) $\frac{300}{100}$ (h) $\frac{700}{100}$
(i) $\frac{33\frac{1}{3}}{100}$ (j) $\frac{105}{100}$
4. (a) 45% (b) 75% (c) 70% (d) 50%
(e) 48% (f) 82% (g) $62\frac{1}{2}\%$ (h) $73\frac{1}{3}\%$
(i) 75% (j) $109\frac{3}{8}\%$ (k) 280% (l) 130%
5. (a) $\frac{1}{5}$ (b) $\frac{3}{4}$ (c) $\frac{41}{50}$ (d) $\frac{37}{100}$
(e) $\frac{49}{100}$ (f) $\frac{23}{400}$ (g) $\frac{17}{1000}$ (h) $\frac{6}{125}$
(i) $3\frac{3}{4}$ (j) 5
6. (a) 600% (b) 700% (c) 200% (d) 100%
(e) 400%
7. (a) 25% (b) 15% (c) 43% (d) 7% (e) 1% (f) 140% (g) 250% (h) 245% (i) 109% (j) 21.6% (k) 83-4% (l) 0.9%

8. (a) 0.74 (b) 0.13 (c) 0.45 (d) 0.88 (e) 0.155 (f) 1.42 (g) 0.273 (h) 0.7575 (i) 0.0047 (j) 0.0003
9. (a) 30% (b) 20% (c) 46.67% (d) 40% (e) 24%
10. (a) 9 (b) 110 (c) 667 (d) 0-25 (e) ₹ 9 (f) 168 m (g) $37\frac{1}{2}$ kg (h) 0.2 dozen (i) 90 kg (j) 10 p (k) 33.33 g (l) ₹ 125.25
11. (a) 300 (b) 150 (c) 125 (d) 50 (e) 60 (f) 1000
12. (a) 8% (b) 58.3% (c) 25% (d) 75% (e) 20% (f) 8%
13. (a) 25% (b) 20% (c) 37.5% (d) 20%
14. (i) 37.5% (ii) 62.5% 15. 22% of 200 16. 3200
17. (a) 4% (b) 9% (c) 1% (d) 20% (e) 0.3% (f) 20% (g) 0.8% (h) 5% (i) 5% (j) 4.5%

Exercise - 9B

1. (i) 16 (ii) 4 2. 45 3. ₹ 165
4. (i) 247 (ii) 13 5. 147 6. (i) 375 (ii) 2125
7. ₹ 445 8. 483572
9. zinc-12 kg; copper-28 kg
10. ₹ 562.50 11. (i) 90% (ii) 10%
12. 12.5% 13. (i) 320 (ii) 272 (iii) 85%
14. 45 m 15. (i) 835 L (ii) 165 L
16. (i) 100 kg (ii) 40% 17. (i) 5.125 L (ii) 15.375 L
18. ₹ 480 19. ₹ 400 20. Passes

Exercise - 10A

2. ₹ 850-Profit 3. ₹ 130 per hundred-Profit
4. ₹ 1,48,500 5. ₹ 510-Loss 6. ₹ 4325
7. ₹ 9200 8. ₹ 1000 9. ₹ 2500
10. ₹ 875-Profit 11. ₹ 4.75 Profit per card
12. ₹ 750-Profit

Exercise - 10B

1. (a) $16\frac{2}{3}\%$ (b) 10% (c) $5\frac{5}{19}\%$ (d) $7\frac{9}{13}\%$
(e) $2\frac{6}{7}\%$ (f) 10% (g) $16\frac{2}{3}\%$ (h) 10%
(i) 20% (j) 2%
2. (a) 4% (b) 4% (c) $16\frac{2}{3}\%$ (d) $3\frac{1}{3}\%$
(e) $1\frac{69}{131}\%$ (f) $14\frac{2}{7}\%$ (g) $66\frac{2}{3}\%$ (h) 10%
(i) 5% (j) 5%
3. (a) 20% Profit (c) $33\frac{1}{3}\%$ Profit (b) 20% Loss
(d) $16\frac{2}{3}\%$ Loss (e) $8\frac{1}{3}\%$ Profit (f) $9\frac{1}{11}\%$ Loss
(g) 50% Profit (h) $15\frac{35}{71}\%$ Profit (i) 25% Profit
(j) $4\frac{16}{21}\%$ Loss
4. (a) ₹ 253 (b) ₹ 218.75 (c) ₹ 335 (d) ₹ 45.22 (e) ₹ 123
(f) ₹ 418.00 (g) ₹ 467.5 (i) ₹ 636 (f) ₹ 77.76 (k) ₹ 604.8
(l) ₹ 156.75 (m) ₹ 599.40 (n) ₹ 550
5. (a) ₹ 300 (b) ₹ 95 (c) ₹ 20 (d) ₹ 1400 (e) ₹ 500
(f) ₹ 6064
6. (a) 25% 7. 12% Loss 8. ₹ 29425 9. ₹ 49950
10. ₹ 3560 11. ₹ 385 12. 30% 13. 20% Profit
14. Profit ₹ 500 15. Profit ₹ 280; 25%

Exercise - 11A

1. Do it yourself
2. (a) ₹ 288 (b) ₹ 3125 (c) ₹ 900 (d) ₹ 360
3. ₹ 6000 4. ₹ 3,40,000 5. ₹ 50,000
6. ₹ 19037.50 7. ₹ 65,775 8. ₹ 6337.50
9. ₹ 450 10. ₹ 55000 11. ₹ 5,35,000
12. ₹ 10,355 13. (a) ₹ 480 (b) ₹ 1.480

Exercise - 12A

1. (a) 20 m/sec (b) $11\frac{1}{9}$ gm/sec (c) 10 m/sec (d) $81\frac{1}{3}$ m/sec (e) $\frac{3}{4}$ m/sec
2. (a) 1000 m/min. (b) 360 m/min. (c) 1800 m/min. (d) $1866\frac{1}{2}$ m/min. (e) $2666\frac{2}{3}$ m/min.
3. (a) 2.7 km/hour (b) 45 km/hour (c) 32.4 km/hour (d) 108 km/hour (e) 90 km/hour
4. 45 km/hour 5. 27 km/hour 6. 70 km/hour
7. $162\frac{1}{3}$ m/sec 8. 91318 m/sec 9. Equal
10. 45 km 11. $412\frac{1}{2}$ km 12. $4\frac{1}{2}$ hours
13. 1.35 km 14. 40 sec 15. 90 km/hour
16. 15 km 17. 57.5 km 18. $44\frac{4}{9}$ km/hour
19. (a) 141.96 km/hour (b) 150 km/hour 9
20. 5 hours, $7\frac{1}{2}$ hours 21. yes 22. 70 km/hour
23. 3 hours 12 min

Exercise - 13A

1. (a) 12 (b) 1.4 kg (c) 5 (d) 3 (e) 9
2. (a) 7 (b) 3 (c) 3 (d) 3 (e) 7
3. (a) 45 gm (b) $11\frac{2}{3}$ kg (c) 50.5 m (d) 55
(e) $9\frac{14}{15}$ (f) $8\frac{43}{250}$ (g) 5.5 (h) 6
(i) 5 (j) 5.6 (k) 7.4 (l) 43
(m) 21 (n) 5 (o) 7 (p) 58
4. 138 cm 5. 97.5 kg 6. 76 7. 14.2 cm
8. $4\frac{1}{2}$ hours 9. 4052 10. 19 years 11. Rehana
12. (a) 12 years (b) 127 cm and 30.2 kg 13. 76

Exercise - 14A

1. (a) point K (b) Ray LM (c) Line UV (d) Line Segment EF
2. (a) Indefinite, No end point, \leftrightarrow , Cannot be drawn (b) Definite, 2 end 'points', --- , Can be drawn (c) Indefinite, 1 end point, \rightarrow Cannot be drawn
3. (a) Rays: \vec{KP} , \vec{KT} , \vec{KX} ; Line segments: KN, NA (b) Rays: GR, FK, Line segments: GS, SE, SF, GF
4. Do it yourself. 5. Do it yourself.

Exercise - 14B

1. (a) two (b) congruent (c) arms (d) vertex (e) protractor
2. (a) C (b) S (c) C (d) S (e) C (f) S (g) C (h) S (i) C (j) S (k) C (l) S
3. (a) 15° , acute angle (b) 240° , reflex angle (c) 140° , obtuse angle (d) 90° , right angle (e) 60° , acute angle

8. 10. 422.5 sqm 11. 5625 sqm, 84,375
 12. (a) 2500 bricks
 9. 13. 1600 beds 14. ₹ 724.50
 10. 15. (a) 4 times (b) 9 times (c) one-fourth 16. ₹ 18,600

Exercise - 17A

11. (a) 7 (b) 9 (c) 10 (d) 11 (e) 11 (f) 12 (g) 12 (h) 16

Exercise - 17B

13. 1. (a) 64 cu cm
 14. 2. (a) $l = 2$ cm, $b = l$ cm, $h = 5$ cm, Vol. = 10 cu cm (b) $l = 4$ cm, $b = 3$ cm, $h = 2$ cm, Vol. = 24 cu cm (c) $l = 5$ cm, $b = 2$ cm, $h = 4$ cm, Vol. = 40 cu cm
 17. 3. (a) 702 cum (b) 20 m (c) 30 cm (d) 4.5 m
 4. (a) 512 cu m (b) 1728 cu m (c) 3375 cu cm (d) 3723.875 cu m (e) 6162 cu m
 4. 5. 420 cu m 6. (a) eight times (b) one-eighth
 7. 17,000 cum soaps 8. 125 cu m
 9. 0.508 cu m 10. 343 cu cm; 17.150 kg
 11. 2 m 12. 12 pieces

Exercise - 18A

1. (a) 0.01 (b) 0.001 (c) 0.1 (d) hm (e) 1000 (f) dal(g) cl (h) 10 (i) 100
 2. (a) 692.13 dam (b) 417.57 g (c) 3493.7 cl
 Now, (a) 6 km 9 hm 2 dam 1 m 3 dm (b) 4 hg 1 dag 7 g 5 dg 7 cg (c) 3 dal 4 l 9 dl 3 cl 7 ml
 3. (a) 8.034 kg (b) 9.172 kl (c) 6.945 km (d) 4.263 kl (e) 5.271 hg (f) 4.712 dam (g) 370.6 cg (h) 785.6 l (i) 32.57 m

Exercise - 18B

1. (b) 36×10 ; 360; 360 (c) 54×10 ; 540; 540 (d) $15 \times 10 \times 10$; 15×100 ; 1500
 2. (b) $7835 \div 10$, 783.5 (c) $108 \div 10 \div 10 \div 10$, $108 \div 1000$, 0.108 (d) $594 \div 10 \div 10 \div 10$, $594 \div 1000$, 0.594
 3. (a) $232 \times 10 \times 10 \times 10$, 232×1000 , 232000 (b) $86 \times 10 \times 10 \times 10 \times 10$, 86×100000 , 8600000 (c) $16395 \div 10 \div 10 \div 10$, $16395 \div 10000$, 1.6395 (d) $5349 \div 10 \div 10 \div 10$, $5349 \div 10000$, 0.5349 (e) $342 \times 10 \times 10$, 342×100 , 34200
 4. (a) 0.7543 (b) 35630 (c) 0.53493 (d) 0.43695 (e) 1435 (f) 539000 (g) 3123 (h) 5364 (i) 5943 (j) 13947 (k) 0.53697 (l) 873.75 (m) 13490 (n) 10450 (o) 0.6158 (p) 13.4651 (q) 0.6318 (r) 0.34036
 5. (a) 0.006978 km (b) 39 dg (c) 0.347 hl (d) 840 dm (e) 0.04354 kg (f) 330 dl (g) 63,800 dm (h) 0.637 dag (i) 0.06387 kl (j) 13.745 hm (k) 13,200 cg (l) 4.3815 hl (m) 1,470 mm (n) 3.429 hg (o) 6.839 dal (p) 5,000 ml (q) 1,350 mg (r) 3.7921 dag (s) 1,280 cl (t) 120,000 dg
 6. 89,570 cg 7. 24,359 dm
 8. yesterday 9. 0.75035 l 10. 84,37,000 cm

Exercise - 18C

1. (a) 2283.464 g (b) 782.73 dal (c) 5310.71 m (d) 41.2994 hg (e) 620.85 dm (f) 1211.3 dag
 2. (a) 1951.53 g (b) 4146 l (c) 183.01 m (d) 496.15 dal (e) 1.9869 hg (f) 3592 m
 3. 72.404 kg 4. Parcel A; by 2.205 kg
 5. 383.785 km
 6. Total distance 6.147 km; 3.853 km away from starting point.
 7. 25.9325 kl 8. 0.655 l or 655 ml

Exercise - 18D

1. (a) 1,22,278.3 cl (b) 2,17,31,490 dg (c) 2,95,56,200 cm (d) 0.943317 (e) 7808.37 hg (f) 6109.8 cm
 2. (a) 527.8 cm (b) 294.732 l (c) 3824 g (d) 61.33 cm (e) 7296 cl (f) 80.94 dg
 3. (a) 56.214 kg (b) 39.261 l (c) 41.416 m
 4. 648.55 m 5. 1120 steps
 6. 149.555 kg 7. 8 weeks
 8. 960.4 l; ₹ 2,949.80 9. ₹ 48 25 per litre; ₹ 598.30
 10. 7.448 kl 11. 9.3 cm
 12. 975 g 13. 657 ml

Exercise - 19A

1. (a) 30°C (b) 20°C (c) 45°C (d) 55°C (e) 100°C (f) 95°C (g) 65°C (h) 90°C
 2. (a) 78.8°F (b) 95°F (c) 111.2°F (d) 161.6°F (e) 167°F (f) 188.6°F (g) 192.2°F (h) 212°F
 3. 80.6°F 4. 5°C 5. $28\frac{1}{3}$ °C 6. No
 7. 118.4°F 8. 123.8°F 9. 10°C

Exercise - 20A

1. Do it yourself
 2. Do it yourself
 3. Do it yourself
 4. (a) Sandwich (b) Upma & Boiled eggs (c) Fruit salad
 5. Do it yourself
 6. Winter-4; Monsoon-2; Spring-1; Autumn-1; Summer-1
 7. (a) U.K (b) Australia and Japan (c) UK (d) USA

Exercise - 20B

1. Do it yourself
 2. Do it yourself
 3. (a) 20, 38, 32, 18, 32, (b) 140 (c) 70 (d) Piano and light music (e) 2 more children attended classical music

Exercise - 20C

1. Do it yourself
 1. (a) 35kg (b) 20kg (c) 15kg

- (a) $\angle MON, \angle NOP$ (b) $\angle DBC, \angle CBA$ (c) $\angle QPR, \angle RPS$
- (a) $\angle WXY, \angle YXZ$ (b) $\angle GHI, \angle JHI$ (c) $\angle RTS, \angle STU$
- (a) $\angle EHF$ and $\angle FHG$; H; HF (b) $\angle ABD$ and $\angle CBD$; B; BD (c) $\angle PSQ$ and $\angle RSQ$
- $\angle PTR$ and $\angle STQ$; $\angle PTS$ and $\angle RTQ$ BOC (b) $\angle KOM$ and $\angle NOL$; $\angle KON$ and $\angle MOL$ (c) $\angle AOC$ and $\angle BOD$; $\angle AOD$ and $\angle BOC$
- (a) $\angle YOX, \angle YOZ, \angle ZOW, \angle WOX, \angle XOZ, \angle YOW$ (b) $\angle BAC, \angle CAD, \angle DAE, \angle BAD, \angle CAE, \angle BAE$
- (a) 75° (b) 42° (c) 55° (d) 15° (e) 67° (f) 40° (g) 26° (h) 54°
- (a) 152° (b) 17° (c) 90° (d) 55° (e) 85° (f) 1° (g) 135° (h) 27°

Exercise - 14C

- (a) True (b) False (c) False (d) True
- (a) scalene (b) sum, greater (c) quadrilateral (d) 3, 3, 3 (e) 180°
- (a) parallel (b) perpendicular (c) intersecting
- (a) Pentagon (b) Hexagon (c) Octagon (d) Heptagon
- (b) and (d)
- (b) and (c)
- (a) $\triangle PQR$, right-angled (b) $\triangle XYZ$, obtuse-angled (c) $\triangle ABC$, acute-angled
- (a) $\triangle HIJ$, isosceles (b) $\triangle KLM$, scalene (c) $\triangle STU$, equilateral
- (a) 60° (b) 80° (c) 20° (d) 45°
- (a) 70° (b) 30° (c) 45° each (d) 87° (e) 60° each

Exercise - 14D

- (a) longest (b) arcs (c) equal (d) centre (e) circumference








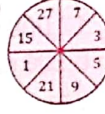

Exercise - 15A

- (a) 555 (b) 655 (c) 100 (d) 169
- (a) 5 (b) 72 (c) 05 (d) 264 (e) 842 (f) 703
- (a) 11 (b) 13 (c) 15 (d) 17
- (a) 12345 (b) 123456 (c) 1234567 (d) 12345678
- (a) 37 (b) 37 (c) 37 (d) 1681 (e) 3721 (f) 5041
- (a) $9 \times 44444 = 399996$; $9 \times 444444 = 3999996$; Rule $\rightarrow 9 \times X = 3Y6$, where X is a number made of only 4's and Y is a number made of only 9's. The number of digits in Y is 1 less than the number of digits in X (b) $37 \times 333333 = 12333321$; $37 \times 3333333 = 123333321$; Rule $\rightarrow 37 \times X = 12Y21$, where both X and Y are numbers made of 3's only. But the number of digits in Y is 2 less than the number of digits in X. (c) $123456 \times 8 + 6 = 987654$, $1234567 \times 8 + 7 = 9876543$; Rule $\rightarrow A \times 8 + B = C$, where A is a number made of non-zero digits in sequence, B is a number whose value is equal to the number of digits in A and C. C is a number made of non-zero digits in descending order. (d) $123456 \times 9 + 7 = 1111111$, $1234567 \times 9 + 8 = 11111111$; Rule $\rightarrow A \times 9 + B = C$, where A is a number made of non-zero digits in sequence, B is

a number whose value is 1 more than the number of digits in A and C is a number made of 1's only. The number of digits of C is equal to the value of B. (e) $987654 \times 9 + 2 = 8888888$; $9876543 \times 9 + 1 = 88888888$; Rule $\rightarrow A \times 9 + B = C$, where A is a number made of non-zero digits in descending order, B is a number whose value is 2 less than the value of last digit of A, and C is a number made of 8's only. The number of digits of C is 1 more than the number of digits of A. (f) $15873 \times 42 = 666666$; $15873 \times 49 = 777777$

- (a) 99 (b) 363 (c) 4884 (d) 606 (e) 2,552

Exercise - 15B

- (a)  (b)  (c)  (d)  (e)  (f)  (g)  (h)  (i) 
- (a) $1 + 3 + 5 + 7 + 9 + 11 = 36$
(b) $8 \times x = 64$

- Do it yourself

- Do it yourself

Exercise - 16A

- (a) 12 sq cm (b) 19 sq cm (c) 10 sq cm (d) 11 sq cm (e) 17 sq cm
- (a) 16 sq cm (b) 22 sq cm
- (a) 5 sq cm (b) 7 sq cm (c) 7 sq cm (b) 16 sq (d) 8 sq cm (e) 10 sq cm (f) 12, sq cm

Exercise - 16B

- (a) 13.5 sq cm (b) 14 sq cm
- (a) 10.5 sq cm (b) 16 sq cm (c) 18 sq cm (d) 21.5 sq cm
- (a) 12 sq cm (b) 11 sq cm (c) 14.5 sq cm (d) 18.5 sq cm

Exercise - 16C

- (a) 6 sq cm (b) 8 sq cm (c) 7.5 sq cm
- (a) 9 sq cm (b) 11 sq cm (c) 18 sq cm
- (a) 8 sq cm (b) 8.5 sq cm (c) 10 sq cm (d) 24 sq cm (e) 17 sq cm

Exercise - 16D

- Do yourself
- Do yourself
- (a) 40 sq cm (b) 15 cm (c) 3 m (d) 50 sq m (e) 13 m (f) 9 m (g) 5000 sq cm (h) 15 cm
- (a) 21 sq m (b) 15 m (c) 13 m (d) 105 sq m (e) 12 m (f) 16.07 cm (g) 52.25 sq m (h) 500 cm (i) 200 cm (j) 129.72 sq m
- (a) 3025 sq cm (b) 169 sq m (c) 37.8225 sq m (d) 361 sq m (e) 462.25 sq m
- 21 sq cm
- (a) 10 sq cm (b) 24 sq cm (c) 30 sq cm (d) 32 sq cm (e) 45 sq cm (f) 47 sq cm
- 35 sq m
- 81 sq m

Answers

Exercise - 1

- (a) 5,866 (b) 48,970 (c) 61,480 (d) 57,004 (e) 20,020
- (a) Twenty five thousand and eighty one
(b) Thirty six thousand five hundred and fifty five
(c) Forty five thousand three hundred and forty nine
- (a) $8000+600+20+2$
(b) $50000+2000+200+30+1$
(c) $10000+2000+300+60+2$
- (a) 6521 (b) 7062 (c) 82245
- (a) 400 (b) 2000 (c) 60 (d) 1
- (a) 1000 (b) 99999 (c) 0 (d) 1 (e) 2346 (f) 7999
(g) 2210 (h) 2003
- (a) 7545, 7645, 7745, 7845
(b) 8011, 8016, 8022, 8029
- (a) 3856, 4256, 7290, 8546, 9009
(b) 5261, 5621, 6251, 6512, 6521
- (a) 9745, 9574, 9547, 7594, 7495
(b) 9508, 9008, 8095, 8009, 5089
- (a) 435, 453, 345, 354, 543, 534
(b) 932, 923, 293, 239, 392, 329
- (a) 54,210
(b) 10,249
- (a) 91903 (b) 1475382 (c) 15056 (d) 27587 (e) 62706
(f) 49999 (g) 7659 (h) 4032 (i) 34529
(j) $Q=106, R=6$ (k) $Q=90, R=3$ (l) $Q=101, R=9$
- (a) 100 (b) 920 (c) 3 (d) 200 (e) 600
(f) 90
- (a) 346 (b) 364 (c) 192 (d) 210 (e) 1000
- (a) 4, 4, 2; 1, 2 (b) 9, 0, 9; 9
(c) 4, 4, 3, 7 (d) 6, 3, 1, 6
- a) $\frac{4}{7}$ b) $\frac{9}{13}$ c) $\frac{5}{17}$ d) $\frac{2}{9}$
- a) $3\frac{4}{5}$ b) $2\frac{5}{8}$ c) $5\frac{2}{5}$ d) $3\frac{1}{10}$ e) $7\frac{4}{7}$
- a) $\frac{10}{11}$ b) $\frac{2}{13}$ c) $\frac{27}{39}$ or $\frac{9}{13}$ d) $\frac{3}{29}$
- (a) $>$ (b) $<$ (c) $>$ (d) $=$ (e) $>$ (f) $>$
- a) $\frac{10}{13}, \frac{9}{13}, \frac{6}{13}, \frac{5}{13}, \frac{4}{13}$ b) $\frac{16}{17}, \frac{16}{18}, \frac{16}{19}, \frac{16}{29}, \frac{16}{31}$
- a) $\frac{7}{19}, \frac{11}{19}, \frac{14}{19}, \frac{15}{19}, \frac{18}{19}$ b) $\frac{10}{21}, \frac{10}{19}, \frac{10}{17}, \frac{10}{13}, \frac{10}{11}$
- (a) 55 (b) 90 (c) 290 (d) 75 (e) 154
(f) 144
- 1999 24. 2495 25. 7421 26. 5026
- 5874 people 28. 2702 books 29. ₹ 4770
- ₹ 8280 31. 503 cars 32. ₹ 29600
- (a) 400 (b) 8000 (c) 6000 (d) 1000 (e) 525
(f) 303 (g) 8; 734 (h) 5025

- (a) 66 m 27 cm (b) 68 m 59 cm
(c) 55 km 441 m (d) 37 L 360 mL
(e) 149 m 35 cm (f) 362 kg 736 g
- 381 km 36. 103 kg 37. 135 km
- (a) 24 cm (b) 22 cm (c) 24 cm (d) 33 cm (e) 36 cm
- 7 cm 40. 35 cm
- (a) 60 (b) 24 (c) 2 (d) 29 (e) 31

Exercise - 2A

- (a) 27 (b) 778 (c) 1001 (d) 39 (e) 1064
(f) 1277 (g) 518 (h) 3508 (i) 8348 (j) 6378
(k) 7084 (l) 1036
- (a) 68 (b) 761 (c) 7789 (d) 159 (e) 2344
(f) 1027 (g) 2377 (h) 7820 (i) 5246 (j) 8029
(k) 6129 (l) 9473

Exercise - 2B

- (a) 78632, 78633, 78634, 78635, 78636
(b) 23417, 23418, 23419, 23420, 23421
(c) 34252, 34253, 34254, 34255, 34256
(d) 63713, 63714, 63715, 63716, 63717
(e) 120786, 120787, 120788, 120789, 120790,
(f) 354238, 354239, 354240, 354241, 354242
(g) 77072, 77073, 77074, 77075, 77076
(h) 455462, 455463, 455464, 455465, 455466
(i) 617822, 617823, 617824, 617825, 617826
- (a) 43459, 43460, 43461
(b) 344583, 344581, 344579
(c) 124869, 124969, 124069
(d) 18347, 19347, 20347
- (a) 43457, 43460, 43461
(b) 56233, 56234, 56235, 56236
(c) 234570, 234571, 234572, 234573, 234574, 234575
(d) 131457, 131458, 131459, 131460
- 3,25,101; 3,25,102; 3,25,103; 3,25,104; 3,25,105;
3,25,106; 3,25,107; 3,25,108; 3,25,109; 3,25,110;
3,25,111; 3,25,112; 3,25,113; 3,25,114
- 4,00,212; 4,00,214; 4,00,216; 4,00,218; 4,00,220;
4,00,222; 4,00,224; 4,00,226; 4,00,228; 4,00,230
- 5,20,405; 5,20,410; 5,20,415; 5,20,420; 5,20,425;
5,20,430; 5,20,435; 5,20,440; 5,20,445; 5,20,450
- 6,45,110; 6,45,120; 6,45,130; 6,45,140; 6,45,150;
6,45,160; 6,45,170; 6,45,180; 6,45,190; 6,45,200
- 7,00,100; 7,00,200; 7,00,300; 7,00,400; 7,00,500;
7,00,600; 7,00,700; 7,00,800; 7,00,900; 7,01,000
- 8,51,000; 8,52,000; 8,53,000; 8,54,000; 8,55,000;
8,56,000; 8,57,000; 8,58,000; 8,59,000; 8,60,000
- 9,10,000; 9,20,000; 9,30,000; 9,40,000; 9,50,000;
9,60,000; 9,70,000; 9,80,000; 9,90,000; 10,00,000

Exercise - 2C

- (a) 3 (b) 70 (c) 3000 (d) 5000 (e) 80000 (f) 200000
- Do Yourself
- (a) 5 digits (b) 6 digits (c) 6
- (a) $60000+8000+600+90+3$ digits (d) 6 digits
(b) $800000+80000+9000+200+80+3$
(c) $60000+6000+700+60+3$
(d) $400000+90000+5000+200+50+6$
(e) $100000+30000+5000+400+70+4$
(f) $30000+8000+700+40+9$
- (a) 77077 (b) 6854 (c) 94645 (d) 43701
- Indian (a) 67,89,345 (b) 3,57,64,532 (c) 68,67,312
International (a) 6,789,345 (b) 35,764,532 (c) 6,867,312
- (a) 79417 (b) 84534 (c) 56364 (d) 402945 (e) 650077

Exercise - 2D

- | | | | |
|-------|-------|-------|-------|
| 1. > | 2. > | 3. > | 4. > |
| 5. < | 6. < | 7. < | 8. < |
| 9. = | 10. < | 11. > | 12. < |
| 13. > | 14. > | 15. < | 16. > |
| 17. > | 18. > | 19. > | 20. > |

Exercise - 2E

- (a) 2,325; 12,827; 22,740; 25,035; 1,22,000; 2,20,156
(b) 1750; 5210; 10450; 10756; 27000; 45328
(c) 6006; 6066; 6666; 60666; 65006; 550666
(d) 311,2107,2147, 21070, 37140, 310,000
(e) 380; 5370; 43800; 48300; 438000; 484000
(f) 650; 6050; 65000; 65400; 605000; 650000
(g) 8840; 79880; 80840; 88400; 798800; 884000
(h) 900; 9000; 90800; 98900; 890000; 908000
- (a) 125423; 106000; 70700; 68592; 14156; 7543
(b) 99000; 92536; 90887; 87777; 79972; 70015
(c) 152300; 125300; 95960; 84150; 2036; 1250
(d) 126783; 66300; 63159; 10000; 6630; 6360
(e) 420000; 240000; 42000; 40000; 24000; 4200; 2400
(f) 531414; 135141; 53141; 51341; 35441; 5341
(g) 666000; 66600; 60660; 6600; 6050; 660
(h) 138260; 136280; 61380; 61328; 16830; 16680; 1368
- (a) 18902 (b) 24349 (c) 41000 (d) 83344 (e) 100000 (f) 202001 (g) 319830 (h) 451000
- (a) 19999 (b) 44299 (c) 95279 (d) 117999 (e) 170265 (f) 225450 (g) 340999 (h) 428728
- 999999; 100000
- 99999
- 100000
- 999999

Exercise - 3A

- (a) 79664 (b) 78577 (c) 68884 (d) 71669 (e) 295599 (f) 77578 (g) 561966 (h) 575587

- (a) 68776 (b) 148680 (c) 397794 (d) 485406 (e) 697869 (f) 989876 (g) 688999 (h) 689898

Exercise - 3B

- (a) 17725 (b) 102066 (c) 102222 (d) 330644 (e) 294675 (f) 628285 (g) 591550 (h) 520805 (i) 622668 (j) 495180 (k) 376819 (l) 906487
- (a) 293269 (b) 401283 (c) 619279 (d) 669533 (e) 699185 (f) 509770 (g) 188865 (h) 531053 (i) 1076400

Exercise - 3C

- | | | |
|------------|------------|-------------|
| 1. ₹197997 | 2. 1455818 | 3. ₹896726 |
| 4. ₹187376 | 5. 343065 | 6. 474235 |
| 7. 105527 | 8. 143718 | 9. 1042436 |
| 10. 745369 | 11. ₹56750 | 12. ₹321350 |

Exercise - 4A

- (a) 22142 (b) 21311 (c) 21113 (d) 23722 (e) 31424 (f) 52056 (g) 112142 (h) 211211 (i) 230454 (j) 231124 (k) 115520 (l) 254352
- (a) 55114 (b) 12211 (c) 40320 (d) 111232 (e) 322311 (f) 351225 (g) 335123 (h) 222246

Exercise - 4B

- (a) 22671 (b) 34579 (c) 18889 (d) 26887 (e) 16827 (f) 59273 (g) 38655 (h) 136212 (i) 162890 (j) 180085 (k) 298822 (l) 378088
- (a) 15976 (b) 15669 (c) 40085 (d) 63166 (e) 232607 (f) 191883 (g) 383335 (h) 207426 (i) 11111 (j) 34333 (k) 113153 (l) 900110

Exercise - 4C

- | | | |
|-------------------|-----------|-----------|
| 1. 57905 | 2. 46379 | 3. 7117 |
| 4. 2457 | 5. ₹18141 | 6. ₹86787 |
| 7. 44655 | 8. 67724 | 9. 95844 |
| 10. 110574, 13648 | 11. 1 | |

Exercise - 5A

- (a) 3894 (b) 0 (c) 587 (d) 4159 (e) 0 (f) 1 (g) 0 (h) 482 (i) 735000 (j) 100 (k) 30 (l) 30000
- (a) 800 (b) 2800 (c) 15200 (d) 15000 (e) 156000 (f) 10500 (g) 0 (h) 4800 (i) 16200 (j) 1000 (k) 180000 (l) 151000 (m) 160000 (n) 102000 (o) 32000 (p) 30000
- (a) 4140 (b) 5415 (c) 6720 (d) 4131 (e) 7769 (f) 46875 (g) 65136 (h) 38142 (i) 133095 (j) 24876 (k) 27696 (l) 36397 (m) 41152 (n) 624000 (o) 1000000 (p) 6075 (q) 98042 (r) 180300

Exercise - 5B

- | | | |
|---|------------|------------|
| 1. 12025 | 2. 16515 | 3. 16195 |
| 4. 207444 | 5. 235620 | 6. 275303 |
| 7. 147312 | 8. 1134000 | 9. 2035348 |
| 10. 40460 passengers | | |
| 11. (a) 10960 (b) 109600 (c) 11234 (d) 112340 | | |

Exercise - 5C

1. 13752
2. 31104
3. 45456
4. 22644
5. 29743
6. 477204
7. 88367
8. 3117633
9. 1491606
10. 348600
11. 49375
12. 79230
13. 19363
14. 51672
15. 294444
16. 184212
17. 91744
18. 1534400
19. 1973554
20. 1318872
21. 25515
22. 138240
23. 167706
24. 119988
25. 58425
26. 885920
27. (a) 20000 (b) 80000 (c) 1000000 (d) 45000
28. (a) 178365 (b) 178459 (c) 182208 (d) 174662
29. (a) 8802 (b) 7335 (c) 82152 (d) 66015
30. (a) 6; 1, 9, 6, 2; 1, 3, 0, 8, 0; 5; 0, 4
(b) 6, 3; 1, 7, 5, 8; 3, 5, 1, 6, 0; 3, 6, 9
(c) 6; 4, 5, 3, 6; 6, 0, 4, 8, 0; 6, 5, 0
(d) 5, 9; 8, 7, 0, 3; 4, 8, 3, 5, 0; 7, 0

Exercise - 5D

1. 33908 passengers
2. 49356 scooters
3. 448320 sheets
4. 153468 mangoes
5. 193325 bags
6. 6125 pages
7. 52650 bulbs
8. 44640 minutes
9. ₹4380
10. yes

Exercise - 6A

1. (a) 567 (b) 1 (c) 0 (d) 7576
(e) 867 (f) 2847 (g) 1 (h) 1
(i) 0 (j) 1
2. (a) Q=15, R=6 (b) Q=35, R=6
(c) Q=8, R=45 (d) Q=1; R=87
(e) Q=38, R=74 (f) Q=95, R=63
(g) Q=426, R=1 (h) Q=7, R=597
(i) Q=3, R=895 (j) Q=48, R=56
(k) Q=95, R=63
3. (a) Q=22, R=21 (b) Q=125, R=12
(c) Q=73, R=90 (d) Q=1456; R=399
4. 2421

Exercise - 6B

1. Q=37, R=12
2. Q=38, R=1
3. Q=46, R=10
4. Q=20, R=17
5. Q=220, R=16
6. Q=118, R=8
7. Q=239, R=5
8. Q=35, R=6
9. Q=103, R=23
10. Q=302, R=13
11. Q=202, R=36
12. Q=216, R=3
13. Q=310, R=35
14. Q=224, R=40
15. Q=1020, R=44
16. Q=548, R=7
17. Q=1151, R=36
18. Q=41, R=22
19. Q=51, R=50
20. Q=1168, R=63
21. Q=2336, R=11
22. Q=112, R=29
23. Q=1131, R=35
24. Q=184, R=66
25. Q=1585, R=137
26. Q=5430, R=15
27. Q=226, R=232
28. Q=3659, R=12
29. Q=173, R=239
30. Q=1183, R=478

31. (a) 1470 (b) 38496 (c) 6000 (d) 2377 (e) 20797

Exercise - 6C

1. 101
2. 5139
3. 102 students
4. 825 cartons
5. 362 pages
6. 165
7. 10101
8. 23
9. 39
10. 10152
11. 3903 crates

Exercise - 6D

1. 826
2. 147
3. 817
4. 450
5. 3753
6. 18203
7. 76521
8. 4372
9. 18307
10. 9771
11. 30
12. 41
13. 9590
14. 4470
15. 615
16. Try yourself
17. 9
18. 10017
19. 51
20. 807
21. 247126
22. Vinay; 1987
23. 43
24. 315; 7
25. Try yourself
26. (a) 6480 (b) 7128 (c) 9720
(d) 65772 (e) 10692 (f) 97848

Exercise - 7A

1. (a) 62 (b) 10, 12, 18 (c) 20, 30, 42 (d) 102, 400
2. (a) 17, 31 (b) 21, 57 (c) 71, 725 (d) 293, 923
3. (a) 11 (b) 2 (c) 29, 31 (d) 53
4. (a) 12, 25 (b) 18, 39, 40 (c) 51, 57, 63, 65
(d) 90, 91, 95, 96
5. (a) 2, 2 (b) 7, 5 (c) 11, 19 (d) 31, 11
6. (a) 45 (b) multiple (c) 25, 1 (d) 3, 5, 7
7. (a) 72 (b) 7, 9 (c) 1, factors (d) itself
(e) 1
8. (a) 8, 16, 24, 32, 40 (b) 15, 30, 45, 60, 75
(c) 16, 32, 48, 64, 80 (d) 25, 50, 75, 100, 125
9. (a) 1, 2, 3, 4, 6, 12 (b) 1, 3, 5, 15
(c) 1, 2, 3, 4, 6, 8, 12, 16, 24, 48
(d) 1, 3, 5, 15, 25, 75

Exercise - 7B

1. Odd: 25, 15, 29, 37, 61, 91, 95, 103, 305, 463, 757
Even: 28, 48, 56, 72, 102, 204, 1240, 928
2. (a) 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67,
69, 71
(b) 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67
(c) 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129
(d) 177, 179, 181, 183, 185, 187, 189, 191, 193, 195,
197, 199
3. (a) 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78,
80
(b) 60, 62, 64, 66, 68
(c) 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126,
128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148
(d) 272, 274, 276, 278, 280, 282, 284, 286, 288, 290,
292, 294, 296, 298, 300, 302, 304, 306, 308
4. 51, 52, 54, 55, 56, 57, 58, 60, 62, 63, 64, 65, 66, 68, 69

5. 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89
 6. (a) 12, 24, 36, 48, 60, 72, 84, 96, 108, 120
 (b) 13, 26, 39, 52, 65, 78, 91, 104, 117, 130
 (c) 17, 34, 51, 68, 85, 102, 119, 136, 153, 170
 (d) 19, 38, 57, 76, 95, 114, 133, 152, 171, 190
 (e) 24, 48, 72, 96, 120, 144, 168, 192, 216, 240
 7. 2, 13, 29, 41, 59, 79, 83
 8. 17, 29, 43, 83, 97, 107
 9. Try yourself 10. Try yourself
 11. (a) yes (b) no (c) yes (d) yes (e) yes
 (f) no
 12. (a) yes (b) yes (c) no (d) no (e) yes
 (f) yes
 13. (a) 11 (b) 10 (c) 97 (d) 99 (e) 101
 14. Try Yourself
 15. 90, 91, 92, 93, 94, 95, 96

Exercise - 7C

1.

| | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 |
|---------|-----|-----|-----|-----|-----|----|----|-----|-----|
| yes | no | no | yes | no | no | no | no | yes | yes |
| yes | yes | no | no | yes | no | no | no | no | no |
| no | yes | no | yes | no | no | no | no | no | no |
| yes | no | yes | no | no | yes | no | no | no | no |
| (e) yes | no | no | no | no | no | no | no | no | no |
| (f) yes | yes | no | yes | yes | no | no | no | yes | no |
| (g) yes | no | yes | yes | no | no | no | no | yes | yes |
| (h) yes | yes | yes | no | yes | no | no | no | no | no |
| (i) yes | no | yes | no | no | no | no | no | no | no |
2. (a) 1 (b) 1 (c) 2
 (d) 2 (e) 2
 3. (a) 1 (b) 0 (c) 2
 (d) 2 (e) 2
 4. (a) 5 (b) 6 (c) 1
 (d) 2 (e) 7
 5. (a) 14 (b) 24 (c) 36
 (d) 44 (e) 54
 6. (a) 6 (b) 10 (c) 14
 (d) 18 (e) 22
 7. (a) 6 (b) 12 (c) 15
 (d) 21 (e) 24
 8. (a) F (b) T (c) F
 (d) T (e) T

Exercise - 7D

1.

| | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 |
|-----|---|---|---|---|---|---|---|----|----|
| (a) | 0 | 2 | 2 | 0 | 2 | 6 | 8 | 0 | 7 |
| (b) | 0 | 0 | 0 | 0 | 0 | 4 | 3 | 0 | 9 |
| (c) | 0 | 2 | 2 | 0 | 2 | 2 | 8 | 0 | 7 |
2. (a) yes (b) no (c) yes (d) yes (e) yes
 (f) yes (g) no (h) yes (i) yes (j) no
 3. (a) yes (b) no (c) yes (d) yes (e) yes

- (f) yes (g) no (h) yes (i) yes (j) no
 4. (a) yes (b) no (c) no (d) yes (e) no
 (f) yes (g) yes (h) yes (i) no (j) yes
 5. (a) yes (b) yes (c) no (d) no (e) yes
 (f) yes (g) yes (h) no (i) no (j) no
 6. (a) no (b) yes (c) yes (d) no (e) yes
 (f) no (g) no (h) no (i) yes (j) yes
 7. (a) no (b) no (c) no (d) yes (e) yes
 8. Try yourself
 9. Try yourself
 10. (a) no (b) yes (c) yes (d) yes (e) no
 (f) yes (g) yes (h) no (i) no (j) no
 11. 1 12. 318; 321
 13. 5 14. 4
 15. (a) 102 (b) 998 (c) 9996 (d) 10002 (e) 995

Exercise - 8A

1. (a) $2 \times 2 \times 2 \times 3$ (b) $2 \times 2 \times 2 \times 2 \times 2$
 (c) $2 \times 2 \times 3 \times 5$ (d) $2 \times 2 \times 3 \times 7$
 2. (a) yes (b) yes (c) no (d) no (e) yes
 (f) yes
 3. (a) (i) 1, 3, 9 (ii) 1, 2, 3, 4, 6, 12 (iii) 1, 3 (iv) 3
 (b) (i) 1, 2, 3, 4, 6, 8, 12, 24 (ii) 1, 2, 4, 5, 8, 10, 20, 40
 (iii) 1, 2, 4, 8 (iv) 8
 4. (a) (i) 10, 20, 30, 40, (ii) 15, 30, 45, (iii) 30
 (iv) 30, 60, 90
 (b) (i) 8, 16, 24, 32, 40, 48, 56, 64, 72,
 (ii) 7, 14, 21, 28, 35, 42, 49, 56, 63,
 (iii) 56 (iv) 56, 112, 168

Exercise - 8B

1. (a) 1, 3 (b) 1, 3 (c) 1, 2, 4, 8
 (d) 1, 2, 4, 8 (e) 1 (f) 1, 2
 2. (a) yes (b) no (c) yes (d) no (e) yes
 (f) yes (g) yes (h) yes
 3. (a) $2 \times 2 \times 5$ (b) $3 \times 3 \times 5$
 (c) 2×31 (d) $2 \times 2 \times 2 \times 2 \times 5$
 (e) $2 \times 3 \times 3 \times 5$ (f) $2 \times 2 \times 2 \times 3 \times 5$
 (g) $2 \times 2 \times 5 \times 17$ (h) $2 \times 3 \times 5 \times 17$
 (i) $2 \times 2 \times 167$ (j) $2 \times 2 \times 2 \times 2 \times 5 \times 11$
 (a) 3×7 (b) $2 \times 2 \times 7$
 (c) $2 \times 2 \times 2 \times 3 \times 3$ (d) $2 \times 3 \times 3 \times 5$
 (e) $2 \times 2 \times 5 \times 7$
 5. 31, 37
 6. (a) 8 (b) 5 (c) 4 (d) 34 (e) 4 (f) 15
 7. (a) 1, 2, 4; HCF=4
 (b) 1, 2, 3, 5, 6, 10, 15, 30; HCF=30
 (c) 1, 2, 3, 6; HCF=6
 (d) 1, 5; HCF=5 (e) 1; HCF=1
 (f) 1, 2, 3, 4, 6, 12; HCF=12
 (g) 1, 5; HCF=5
 (h) 1, 7; HCF=7

Exercise - 8C

- (a) 12, 24, 36, 48; LCM= 12
(b) 30, 60, 90, 120; LCM= 30
(c) 20, 40, 60, 80; LCM= 20
(d) 60, 120, 180, 240; LCM=60
(e) 60, 120, 180, 240; LCM=60
(f) 21, 42, 63, 84; LCM=21
(g) 36, 72, 108, 144; LCM=36
(h) 40, 80, 120, 160; LCM=40
- (a) 600 (b) 400 (c) 63 (d) 240 (e) 120
(f) 1575
- (a) 180 (b) 150 (c) 240 (d) 1320 (e) 1500
(f) 4500 (g) 512 (h) 11475 (i) 864
- Do yourself 5. 216 6. 96
- 120 8. 210 9. 41
- 357 11. 9900 12. 1080
- 10 a.m. 14. 300 toffees 15. 178
- 547 17. 600 18. 120 litres
- 10344

Exercise - 9A

- (a) straight (b) curved (c) straight
(d) curved (e) curved (f) straight
- (a) straight (b) starting
(c) line segment, line (d) position
(e) line (f) rays
- (a) wavy line (b) horizontal line (c) slant line
(d) curved line (e) ray
(f) line segment (g) vertical line
(h) parallel lines

Exercise - 9B

- A. (1) $\angle UXV$ (2) $\angle MNO$ (3) $\angle B$
(4) $\angle 2$
- B. Do yourself
- C. Do yourself
- D. (1) $\angle MON, \angle NOM$ (2) $\angle AOB, \angle BOA$ (3) $\angle XYZ, \angle ZYX$

Exercise - 9C

- A. (1) acute angle (2) right angle
(3) obtuse angle (4) straight angle
(5) zero angle
- B. (1) 45° (2) 0° (3) 90° (4) 90°
(5) 120° (6) 50°
- C. (1) not; $\angle 2$ (2) not; $\angle a$ (3) not; $\angle 2$ (4) $\angle ab$ (5) $\angle 2; 0$

Exercise - 9D

- A. (1) 45° (2) 110° (3) 30° (4) 90°
- B. (1) 120° obtuse angle (2) 60° acute angle
(3) 119° obtuse angle (4) Do yourself

Exercise - 9E

- A. (1) Do yourself (2) Do yourself
(3) Do yourself

Exercise - 9F

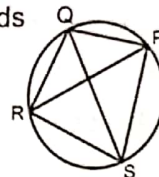
1. (a) three (b) acute-angles (c) vertex
(d) vertices (e) closed, line segments

(f) isosceles

2. (a) equilateral (b) scalene (c) isosceles
3. (a) right angled (b) obtuse angled
(c) acute angled

Exercise - 9G

1. (a) diameter (b) half (c) chord
2. (a) OD, OJ, OC, OI (b) JI, CD
(c) AB, CD, EF, GH, IJ, KL
3. (c) 6 chords



4. Do yourself

Exercise - 10A

1. (b) (c) (d)
2. (b) (c)

3. (a) 1 (b) 8 (c) 6 (d) 2
4. (a) $45+44$ (b) $78+77$
(c) $117+116$ (d) $82+81$
(e) $91+90$ (f) $137+136$
5. (a) 1234321 (b) 123454321
(c) 12345654321 (d) 1234567654321
6. (a) A group of three numbers 3, 6, 9
(b) Adding 3 to the preceding number 21, 24, 27
(c) Adding 2 to the preceding number 13, 15, 17
(d) Adding 2 to the preceding number 14, 16, 18
(e) Adding 1, adding 2, adding 3 and so on; 31, 38, 46
(f) $1 \times 1, 2 \times 2, 3 \times 3$ and so on; 49, 64, 81
7. (a) $12345 \times 9 + 6 = 111111$ (b) $12345 \times 8 + 5 = 98765$
 $123456 \times 9 + 7 = 1111111$ $123456 \times 8 + 6 = 987654$
(c) $555 \times 15 = 37$ (d) $90000 + 10000 = 100000$
 $666 \times 18 = 37$ $900000 + 100000 = 1000000$

Exercise - 11A

1. (a) $\frac{2}{5}$ (b) $\frac{3}{9}$ (c) $\frac{1}{6}$ (d) $\frac{6}{10}$
2. (a) Three-fourths (b) Five upon nine
(c) Four by eleven (d) Seven over eighteen
3. (a) $\frac{3}{8}$ (b) $\frac{4}{9}$ (c) $\frac{5}{12}$ (d) $\frac{7}{16}$

4. (a) Numerator = 3, Denominator = 7
 (b) Numerator = 5, Denominator = 9
 (c) Numerator = 11, Denominator = 15
 (d) Numerator = 13, Denominator = 21
 (e) Numerator = 17, Denominator = 27

5. (a) $\frac{3}{5}$ (b) $\frac{7}{9}$ (c) $\frac{4}{13}$ (d) $\frac{11}{15}$

6. (a) Shaded part = $\frac{5}{6}$, Unshaded part = $\frac{1}{6}$
 (b) Shaded part = $\frac{7}{10}$, Unshaded part = $\frac{3}{10}$
 (c) Shaded part = $\frac{5}{12}$, Unshaded part = $\frac{7}{12}$
 (d) Shaded part = $\frac{9}{15}$, Unshaded part = $\frac{6}{15}$

7. (a)  (b)  (c)  (d) 

Exercise - 11B

1. (a) No (b) Yes (c) Yes (d) No
 (e) Yes (f) No
2. (a) $\frac{1}{7}, \frac{1}{15}$ (b) $\frac{1}{9}, \frac{1}{3}$ (c) $\frac{1}{6}, \frac{1}{8}, \frac{1}{25}$
3. (a) $\frac{3}{5}, \frac{4}{5}, \frac{1}{5}$ (b) $\frac{4}{7}, \frac{8}{7}$ (c) $\frac{5}{9}, \frac{3}{9}, \frac{7}{9}$ (d) $\frac{8}{11}, \frac{7}{11}$
 (e) $\frac{4}{13}, \frac{7}{13}$ (f) $\frac{4}{21}, \frac{13}{21}, \frac{19}{21}$
4. (a) $\frac{4}{8}, \frac{5}{9}$ (b) $\frac{3}{7}, \frac{3}{8}$ (c) $\frac{5}{7}, \frac{9}{11}$ (d) $\frac{8}{15}$
 (e) $\frac{8}{12}, \frac{6}{15}$ (f) $\frac{9}{15}, \frac{9}{13}, \frac{9}{21}, \frac{9}{18}$
5. (a) $\frac{4}{9}, \frac{3}{5}$ (b) $\frac{5}{8}, \frac{17}{19}$ (c) $\frac{5}{8}, \frac{1}{4}, \frac{2}{3}$ (d) $\frac{11}{13}, \frac{5}{8}, \frac{13}{17}$
 (e) $\frac{17}{21}, \frac{9}{15}, \frac{4}{9}$ (f) $\frac{1}{8}, \frac{9}{16}, \frac{13}{18}$
6. (a) $\frac{9}{6}, \frac{5}{5}, \frac{5}{4}$ (b) $\frac{5}{3}, \frac{13}{11}$ (c) $\frac{7}{5}, \frac{8}{8}$ (d) $\frac{13}{13}, \frac{21}{15}, \frac{13}{9}$
 (e) $\frac{13}{12}, \frac{3}{3}, \frac{7}{5}$ (f) $\frac{11}{6}, \frac{17}{15}$
7. (a) $\frac{2}{8}$ (b) $\frac{4}{8}$ (c) $\frac{6}{8}$ (d) $\frac{3}{8}$
 (e) $\frac{1}{8}$ (f) $\frac{7}{8}$ (g) $\frac{5}{8}$ (h) $\frac{3}{8}$
8. (a) $\frac{6}{24}$ (b) $\frac{6}{15}$ (c) $\frac{6}{14}$ (d) $\frac{6}{9}$
 (e) $\frac{6}{11}$ (f) $\frac{6}{7}$ (g) $\frac{6}{13}$ (h) $\frac{6}{9}$
9. (a) $\frac{12}{20}$ (b) $\frac{3}{5}$ (c) $\frac{18}{30}$
10. (a) 9 (b) 56 (c) 1 (d) 9
 (e) 11 (f) 12 (g) 56 (h) 15
11. (a) $\frac{2}{6}, \frac{3}{9}, \frac{4}{12}, \frac{5}{15}$ (b) $\frac{4}{10}, \frac{6}{15}, \frac{8}{20}, \frac{10}{25}$ (c) $\frac{10}{18}, \frac{15}{27}, \frac{20}{36}, \frac{25}{45}$
 (d) $\frac{22}{30}, \frac{33}{45}, \frac{44}{60}, \frac{55}{75}$ (e) $\frac{34}{42}, \frac{51}{63}, \frac{68}{84}, \frac{85}{105}$
12. (a) $3 \times 42 = 126, 7 \times 18 = 126$
 (b) $20 \times 9 = 180, 45 \times 4 = 180$
 (c) $15 \times 13 = 195, 39 \times 5 = 195$
13. (a) $\frac{7}{3}$ (b) $\frac{31}{9}$ (c) $\frac{13}{11}$ (d) $\frac{38}{7}$ (e) $\frac{69}{15}$

Exercise - 11C

1. (a) < (b) >
2. (a) Yes (b) No (c) No (d) Yes (e) Yes
 (f) Yes

3. (a) < (b) > (c) > (d) > (e) <
 (f) < (g) < (h) <
4. (a) $\frac{5}{6}$ (b) $\frac{4}{7}$ (c) $\frac{9}{14}$
5. (a) $\frac{8}{13}$ (b) $\frac{15}{21}$ (c) $\frac{17}{29}$

Exercise - 11D

1. (a) $\frac{12}{13}$ (b) $\frac{14}{17}$ (c) $\frac{4}{5}$ (d) 1 (e) $1\frac{3}{20}$
 (f) $1\frac{1}{16}$ (g) $\frac{13}{15}$ (h) $\frac{21}{29}$ (i) $1\frac{5}{21}$ (j) $\frac{29}{42}$
 (k) $1\frac{7}{18}$ (l) $2\frac{3}{10}$
2. (a) $1\frac{1}{11}$ (b) $1\frac{2}{5}$ (c) $1\frac{13}{16}$ (d) $\frac{14}{19}$ (e) $1\frac{11}{20}$
 (f) 1 (g) $1\frac{7}{12}$ (h) $1\frac{17}{36}$ (i) $1\frac{3}{5}$ (j) $1\frac{31}{36}$
 (k) $1\frac{55}{144}$ (l) $1\frac{4}{15}$
3. (a) $7\frac{2}{3}$ (b) $6\frac{1}{4}$ (c) $2\frac{15}{22}$ (d) $2\frac{44}{45}$ (e) $6\frac{23}{24}$
 (f) $6\frac{3}{4}$ (g) $6\frac{11}{18}$ (h) $8\frac{8}{9}$ (i) $10\frac{11}{14}$
4. (a) $1\frac{20}{21}$ (b) $4\frac{7}{11}$ (c) $1\frac{41}{54}$ (d) $\frac{49}{90}$ (e) $6\frac{17}{24}$
 (f) $1\frac{11}{16}$ (g) $\frac{89}{150}$ (h) $3\frac{2}{27}$ (i) $1\frac{31}{180}$ (j) $5\frac{27}{70}$
 (k) $8\frac{23}{50}$ (l) $66\frac{13}{100}$ (m) $57\frac{77}{100}$ (n) $6\frac{31}{60}$ (o) $20\frac{53}{66}$
5. (a) $2\frac{1}{5}$ (b) $\frac{15}{31}$ (c) $7\frac{5}{41}$ (d) $4\frac{8}{15}$ (e) 0
 (f) 1
6. $6\frac{2}{15}$ hours

Exercise - 11E

1. (a) $\frac{2}{9}$ (b) $\frac{4}{15}$ (c) $\frac{2}{13}$ (d) $\frac{6}{7}$ (e) $\frac{1}{19}$
 (f) $\frac{11}{23}$ (g) $\frac{1}{9}$ (h) $\frac{1}{21}$
2. (a) $\frac{1}{2}$ (b) $\frac{1}{8}$ (c) $\frac{4}{11}$ (d) $\frac{11}{24}$ (e) $\frac{1}{20}$
 (f) $7\frac{4}{7}$ (g) $1\frac{1}{2}$ (h) $5\frac{1}{4}$
3. $3\frac{1}{8}$ 4. $3\frac{1}{4}$ 5. $1\frac{5}{36}$

Exercise - 11F

1. (a) $\frac{4}{9}$ (b) $\frac{1}{3}$ (c) $\frac{1}{14}$ (d) $\frac{3}{10}$
 (e) $\frac{4}{15}$ (f) $\frac{13}{14}$ (g) $\frac{1}{15}$ (h) $1\frac{23}{44}$
 (i) $\frac{3}{10}$
2. (a) $\frac{2}{3}$ (b) $\frac{2}{15}$ (c) $1\frac{1}{2}$ (d) $\frac{9}{11}$
 (e) $1\frac{3}{4}$ (f) $\frac{5}{9}$ (g) $\frac{10}{19}$ (h) $1\frac{1}{6}$
 (i) $1\frac{1}{14}$

3. (a) $2\frac{23}{90}$ (b) $11\frac{1}{4}$ (c) $2\frac{24}{37}$ (d) $6\frac{16}{21}$
 (e) $3\frac{9}{23}$ (f) $49\frac{1}{50}$ (g) $\frac{1}{75}$ (h) $6\frac{13}{64}$
 (i) $80\frac{79}{81}$ (j) $3\frac{23}{30}$ (k) $10\frac{14}{15}$ (l) $167\frac{1}{2}$
4. (a) 0 (b) 0 (c) $\frac{1}{2}$ (d) $19\frac{5}{7}$
 (e) $\frac{1}{2}$ (f) $7\frac{11}{13}$
5. $1\frac{8}{15}$ 6. $\frac{3}{7}$ by $\frac{22}{63}$

Exercise -11G

1. $7\frac{5}{12}$ kg 2. $9\frac{17}{24}$ 3. Sanjiv; $\frac{11}{30}$ km
 4. $\frac{41}{42}$ 5. $6\frac{13}{15}$ 6. $1\frac{17}{20}$
 7. Second attempt was longest; $\frac{7}{20}$ m 8. $9\frac{1}{3}$ m
 9. Pinki studies more; $\frac{5}{12}$ hour
 10. (a) $2\frac{1}{8}$ (b) $4\frac{1}{20}$ (c) $8\frac{1}{24}$ (d) $\frac{1}{6}$
 (e) $2\frac{1}{6}$ (f) $1\frac{11}{15}$ (g) $2\frac{8}{15}$ (h) $\frac{1}{20}$

Exercise -11H

1. (a) $2\frac{2}{5}$ (b) 5 (c) $10\frac{1}{2}$ (d) $\frac{21}{32}$
 (e) $\frac{8}{21}$ (f) $\frac{5}{9}$ (g) $7\frac{8}{11}$ (h) $\frac{3}{10}$
 (i) $\frac{9}{20}$ (j) $6\frac{1}{4}$ (k) 59 (l) 100
2. (a) 24 (b) 18 (c) $\frac{7}{10}$ (d) $\frac{2}{5}$
 (e) $\frac{2}{3}$ (f) 11 (g) $12\frac{2}{7}$ (h) $2\frac{1}{3}$
3. (a) $66\frac{2}{3}$ (b) $5\frac{5}{8}$ (c) 63 (d) $46\frac{2}{7}$
 (e) 9 (f) 72 (g) $\frac{8}{19}$ (h) $\frac{1}{2}$
 (i) $34\frac{3}{5}$ (j) 402 (k) 1675 (l) $\frac{41}{42}$
4. (a) $12\frac{1}{10}$ (b) $17\frac{1}{3}$ (c) $8\frac{4}{15}$ (d) $3\frac{1}{5}$
 (e) $68\frac{4}{7}$ (f) $13\frac{1}{4}$ (g) $\frac{2}{5}$ (h) $\frac{1}{3}$
 (i) $\frac{1}{11}$ (j) $\frac{3}{10}$ (k) 2 (l) $\frac{8}{57}$
 (m) $68\frac{4}{7}$ (n) $\frac{2}{15}$ (d) $2\frac{18}{49}$
5. (a) 18 (b) 90 (c) 35 (d) 20
 (e) $\frac{14}{27}$ (f) $\frac{25}{92}$ (g) 10 (h) Rs. 18
 (i) 500 g (j) 300 g (k) 1 kg 200 g
 (l) 100 m (m) 28 L (n) Rs. 20 (o) 56 m

Exercise -11I

1. (a) 5 (b) $\frac{13}{9}$ (c) $\frac{17}{4}$ (d) $\frac{13}{8}$
 (e) $\frac{1}{7}$ (f) 4 (g) $\frac{23}{6}$ (h) $\frac{13}{31}$
 (i) $\frac{8}{57}$ (j) $\frac{1}{15}$ (k) 27 (l) $\frac{15}{128}$
 (m) $\frac{7}{20}$ (n) $\frac{19}{2}$ (o) $\frac{1}{10}$

2. (a) 1 (b) 1 (c) 1 (d) 1
 (e) 1 (f) 1 (g) 1 (h) 1
 (i) 1 (j) 1
3. (a) 9 (b) 16 (c) $9\frac{2}{3}$ (d) $3\frac{1}{2}$
 (e) $\frac{1}{2}$ (e) $\frac{7}{40}$
4. (a) $3\frac{51}{64}$ (b) $\frac{5}{6}$ (c) $3\frac{13}{15}$ (d) $\frac{3}{13}$
 (e) $16\frac{11}{12}$ (f) $\frac{25}{42}$ (g) 4 (h) $\frac{2}{33}$
 (i) $71\frac{1}{3}$ (j) $1\frac{173}{1875}$ (k) $3\frac{6}{25}$ (l) $\frac{4}{5}$

Exercise -11J

1. Rs. 165 2. Rs. 1250 3. $7\frac{8}{15}$ L 4. $\frac{7}{10}$ km
 5. Rs. 260 6. $\frac{15}{74}$ 7. 15 jugs 8. 40 eggs
 9. 15 m

Exercise -12A

1. (a) 4.62 (b) 7.26 (c) 0.251 (d) 46.7 (e) 51.8
 (f) 0.8094
 2. (b) 835.043 (c) 350.167 (d) 2.315 (e) 931.187
 3.

| | Numerals | Thousands | Hundreds | Tens | Ones | Tenths | Hundredths | Thousandths |
|-----|----------|-----------|----------|------|------|--------|------------|-------------|
| (a) | 37.5 | ⇒ | | | 3 | 7 | 5 | |
| (b) | 52.15 | ⇒ | | | 5 | 2 | 1 | 5 |
| (c) | 12.008 | ⇒ | | | 1 | 2 | 0 | 0 |
| (d) | 625.325 | ⇒ | 6 | | 2 | 5 | 3 | 2 |
| (e) | 84.239 | ⇒ | | | 8 | 4 | 2 | 3 |

4. (a) 0.3 (b) 0.7 (c) 0.12 (d) 0.45 (e) 0.64
 (f) 0.01 (g) 1.09 (h) 2.573 (i) 0.431 (j) 0.001
5. (a) six point five one
 (b) eight point seven zero three
 (c) thirty point zero two
 (d) ninety-two point zero one
 (e) one hundred eighty six point two four six
6. (a) 4 hundredths (b) 6 tenths (c) 1 tenth
 (d) 9 thousandths (e) 4 ones (f) 3 ones
 (g) 1 ten (h) 1 tenth (i) 2 tenths
 (j) 3 hundredths (k) 3 tenths (l) 6 tens
7. (a) $1+0.4+0.001$
 (b) $200+10+3+0.1+0.005+0.006$
 (c) $10+6+0.2+0.008$
 (d) $30+2+0.7+0.08+0.006$
 (e) $500+0.2+0.001+0.007$
 (f) $6000+100+50+6+0.1+0.03+0.005$
8. (a) 6.356 (b) 748.129
 (c) 85.553 (d) 7683.986
 (e) 432.908 (f) 1368.489

Exercise -12B

1. (a) < (b) < (c) > (d) > (e) <
 (f) < (g) < (h) > (i) <
2. (a) 0.154, 0.156, 1.369, 1.370

- (b) 1.001, 1.01, 1.1, 10.001, 10.01, 10.1
 (c) 2.367, 2.637, 2.763, 3.267
 (d) 1.26, 4.36, 12.361, 18.67
 (e) 10.321, 11.21, 11.213, 11.52
 (f) 20.326, 21.256, 21.311, 21.456

3. (a) 2.22, 2.2, 2.021, 2.02, 2.012, 2.002
 (b) 6.6, 6.06, 6.006, 0.66, 0.6, 0.06
 (c) 8.124, 7.236, 3.316, 0.234
 (d) 11.546, 11.346, 9.654, 9.564
 (e) 11.321, 10.321, 10.231, 10.123
 (f) 14.817, 14.236, 14.136, 14.112

Exercise - 12C

1. (a) 2.97 (b) 25 (c) 18.04 (d) 40.109 (e) 59.835
 (f) 476.678
 2. (a) 3.825 (b) 2.01 (c) 1.11 (d) 55 (e) 20.7
 (f) 36.68
 3. (a) 192.44 (b) 44.276 (c) 335.303 (d) 56.656
 4. 0.8062 5. 2.87
 6. 55.25 7. 83.12
 8. 11.0183, 5.7027 9. 164.43 m
 10. 47.5 litres
 11. 4.980 kg 12. 1.70 litres
 13. Rs. 13.25 14. Rs. 54.15
 15. 310.15 km 16. 114.25 litres

Exercise - 13A

1. (a) 100 (b) 100000 (c) 10
 (d) 1000 (e) 1 (f) 1
 (g) 1 (h) 10 (i) 10000
 (j) 10 (k) 4.526 (l) 7.503
 (m) 285.13 (n) 85.46 (o) 82.094
 (p) 85.78 (q) 4.205 (r) 8513
 (s) 9205 (t) 8340
 2. (a) gram (b) metre
 (c) litre (d) kilometre
 (e) millilitre (f) metre
 (g) 100

Exercise - 13B

1. (a) 425 cm (b) 8927 m (c) 8870 g
 (d) 5327 mL (e) 1725 cm (f) 10054 g
 (g) 25940 m (h) 8027 mL (i) 1325 cg
 (j) 209 cm
 2. (a) 8.576 cm (b) 92.76 m
 (c) 56.214 km (d) 82.14 quintal
 (e) 8.276 g (f) 2.743 L
 (g) 20.578 kg (h) 92.783 kL
 (i) 85.03 m (j) 90.500 g
 3. (a) 2.561232 km; 2561.232 m;
 256123.2 cm; 2561232 mm
 (b) 8.501049 km; 8501.049 m;
 850104.9 cm; 8501049 mm
 (c) 0.780046 km; 780.046 m;

- 78004.6 cm; 780046 mm
 (d) 1.002945 km; 1002.945 m;
 100294.5 cm; 1002945 mm

4. (a) 8.451983 kg; 8451.983 g;
 845198.3 cg; 845.1983 dag
 (b) 1.00768 kg; 1007.680 g;
 100768 cg; 100.7680 dag
 (c) 9.341078 kg; 9341.078 g;
 934107.8 cg; 934.1078 dag
 (d) 0.759321 kg; 759.321 g;
 75932.1 cg; 75.9321 dag

5. (a) 2.143085 kL; 21.43085 hL;
 2143.085 L; 2143085 mL
 (b) 0.873214 kL; 8.73214 hL;
 873.214 L; 873214 mL
 (c) 1.946873 kL; 19.46873 hL;
 1946.873 L; 1946873 mL
 (d) 4.00516 kL; 40.00516 hL;
 4000.516 L; 4000516 mL

6. (a) 4 kg 2 hg 8 dag 5 g
 (b) 9 km 2 hm 1 dam 7 m 4 dm 5 cm
 (c) 8 dam 5 dm 7 mm
 (d) 4 hm 5 dam 1 m 6 dm 9 cm
 (e) 7 kg 4 dag 6 g
 (f) 9 dag 2 g 1 dg 8 cg 2 mg
 (g) 8 kg 4 hg 6 dag 3 dg
 (h) 9 kL 2 hL 1 dal 5 L

Exercise - 13C

1. (a) 203 km 167 m
 (b) 154 km 144 m 14 cm
 (c) 111 L 317 mL
 (d) 395 kg 906 g 502 mg
 (e) 155 km 472 m 96 cm 1 mm
 2. (a) 355 kg 110 g 801 mg
 (b) 386 L 085 mL
 (c) 199 n 35 cm 5 mm
 (d) 296 km 89 m 758 mm
 (e) 203 km 846 m 79 cm

Exercise - 13D

1. (a) 682 km 676 m (b) 855 kg 863 g
 (c) 435 L 122 mL (d) 909 km 74 m 3 cm 2 mm
 (e) 78 KL 532 L 557 mL
 (f) 1107 kg 386 g 131 mg
 2. (a) 117 m 74 cm (b) 156 L 396 mL
 (c) 108 kg 771 g 295 mg
 (d) 103 km 975 m 73 cm
 (e) 49 km 16 m (f) 101 m 17 cm 3 mm
 (g) 53 m 31 cm
 3. (a) 269 km 569 m (b) 199 kg 525 g
 (c) 38 L 108 mL (d) 88 km 779 m
 (e) 374 kg 725 g (f) 55 L 787 mL

- (g) 21 L 89 cL 9 mL (h) 69 kg 931g 272 mg
 (a) 466 m 79 cm (b) 10 L 997 mL
 (c) 237 kg 234 g (d) 639 m 85 mm
 (e) 314 km 785 m (f) 9 m 66 mm
 (g) 4 kg 141 g (h) 597 km 304 m

Exercise - 13E

1. (a) 110 kg 495 g (b) 631 km 808 m
 (c) 497 m 88 cm (d) 632 L 274 mL
 (e) 193 kg 248 g (f) 2836 L 656 mL
 2. (a) 627 km 331 m 51 cm
 (b) 3051 kg 723 g 584 mg
 (c) 346 m 39 cm 5 mm
 (d) 256 kL 644 L 576 mL
 (e) 11439 km 200 m (f) 3943 kg 404 g
 3. (a) 73 m 90 cm (b) 48 kg 526 g
 (c) 28 km 562 m (d) 3 m 25 cm
 (e) 10 L 431 mL (f) 7 km 613 m
 (g) 59 km 573 m (h) 80 L 219 mL
 (i) 57 kg 97 g (j) 40 km 271 m

Exercise - 13F

1. 141 km 935 m 2. 170 L 985 mL
 3. 41 kg 555 g 4. 2 L 600 mL
 5. 156 m 65 cm 6. 224 m 65 cm
 7. 17 m 50 cm 8. 174 L 775 mL
 9. 106 kg 575 g 10. 250 L 075 mL
 11. 11 kg 445 g 12. 75 kg 375 g
 13. 229 L 125 mL 14. 15 km 5 m

Exercise - 14A

1. (a) Rupees twenty five and forty five paise
 (b) Rupees twenty four and ninety paise
 (c) Rupees one hundred eight and twenty paise
 (d) Rupees seven hundred nine and three paise
 (e) Rupees four hundred eighty nine and one paise
 2. (a) ₹12.94 (b) ₹85.09 (c) ₹76.32 (d) ₹504.11
 (e) ₹69.96
 3. (a) ₹29.16 (b) ₹429.06 (c) ₹56.20 (d) ₹542.42
 (e) ₹65.88 (f) ₹340.40 (g) ₹350.05 (h) ₹692.09
 4. (a) 4536 (b) 85263 (c) 9020 (d) 26338
 (e) 45656 (f) 80003 (g) 856.28 (h) 385.04
 (i) 300.90 (j) 416.92
 5. (a) < (b) > (c) = (d) =
 (e) > (f) < (g) = (h) >
 (i) < (j) =

Exercise - 14B

1. (a) ₹92.35 (b) ₹125.69
 (c) ₹345.83 (d) ₹469.05 (e) ₹100.01
 2. (a) Thirty nine rupees and ninety three paise
 (b) Forty six rupees and sixty four paise
 (c) Eight hundred rupees and eight paise
 (d) Nine hundred sixty one rupees and sixty one paise
 (e) Five hundred sixty nine rupees and one paise

(f) Eighty nine paise

(g) Forty nine paise

(h) Three hundred eight rupees and seventy two paise

3. (a) 8345 p (b) 7898 p (c) 51253 p (d) 10810 p
 (e) 56904 p (f) 12509 p (g) 20002 p (h) 10010 p
 4. (a) ₹98.56 (b) ₹92.13 (c) ₹500.56 (d) ₹20.03
 (e) ₹2100.34 (f) ₹920.50 (g) ₹783.07 (h) ₹181.50
 5. (a) true (b) false (c) true (d) true
 (e) true (f) false (g) true (h) true

Exercise - 14C

1. (a) ₹126.92 (b) ₹134.70 (c) ₹105.03 (d) ₹143.90
 (e) ₹197.58 (f) ₹499.86 (g) ₹298.32 (h) ₹238.75
 (i) ₹119.61 (j) ₹108.05 (k) ₹358.41 (l) ₹302.04
 2. (a) ₹74.09 (b) ₹44.01 (c) ₹41.07 (d) ₹60.47
 (e) ₹185.07 (f) ₹485.78 (g) ₹85.85 (h) ₹270.73
 (i) ₹70.42 (j) ₹40.57 (k) ₹30.20 (l) ₹176.32

Exercise - 14D

1. (a) ₹157.56 (b) ₹191.57 (c) ₹286.77 (d) ₹319.67
 (e) ₹168.42 (f) ₹543.42 (g) ₹72.13 (h) ₹170.33
 (i) ₹450.32 (j) ₹2141.37 (k) ₹253.96 (l) ₹551.43
 2. (a) ₹312.43 (b) ₹603.66 (c) ₹422.28 (d) ₹290.69
 3. (a) ₹68.87 (b) ₹110.67 (c) ₹360.58 (d) ₹23.50
 4. (a) ₹209.16 (b) ₹213.36 (c) ₹876.75 (d) ₹1303.28
 (e) ₹2232.72 (f) ₹2604.72 (g) ₹2791.88 (h) ₹3860.88
 5. (a) ₹113.48 (b) ₹28.13 (c) ₹72.07 (d) ₹105.01
 (e) ₹70.89 (f) ₹48.34 (g) ₹535.50 (h) ₹118.31
 6. ₹43143.25 7. ₹253.00 8. ₹773.77 9. ₹283.20
 10. ₹1986.24 11. ₹53.48 12. ₹364.76
 13. ₹11604.75 14. ₹276.25 15. ₹525

Exercise - 15A

1. ₹15 2. ₹3750, ₹7.50
 3. 300 g 4. 150 km
 5. 650 scooters 6. ₹90000
 7. 675 students 8. ₹340
 9. 3 toffees 10. 250 mL

Exercise - 15B

1. ₹132 2. ₹105
 3. 280 km 4. ₹300
 5. ₹315 6. ₹1944
 7. 3020 bulbs 8. 1500 persons
 9. 10 litres 10. 15 kg
 11. 3 hours 12. ₹12650
 13. 11 buses 14. 2375 km
 15. 30 balls 16. ₹558
 17. 1200 words 18. 17 flags

Exercise - 16A

1. (a) am (b) pm (c) pm (d) am (e) am
 (f) pm (g) am (h) am
 2. (a) 6:15 am (b) 2:30 pm (c) 11:30 am
 (d) 5:35 pm (e) 7:15 pm (f) 11:05 pm
 (g) 3:45 pm (h) 1:30 am

3. (a) ● (b) ★ (c) ● (d) ●
 (e) ★ (f) ● (g) ★ (h) ★
4. (a) 25 minutes (b) 35 minutes
 (c) 35 minutes (d) 4 hours 25 minutes
 (e) 1 hour 28 minutes (f) 3 hours 45 minutes
5. (a) 8:30 am (b) 2:00 pm
 (c) 11:30 am (d) 7:15 am
 (e) 1:00 am (f) 10:35 pm
 (g) 2:15 pm (h) 12 noon
6. 25 minutes 7. 7 hours
8. 4 hours 40 minutes 9. 7:55 pm
10. 13 hours 39 minutes 11. 7:58 am 12. 4:21 pm

Exercise - 16B

1. (a) 9:00 am (b) 6:35 pm
 (c) 9:08 pm (d) 1:45 pm
2. (a) 11 20 hours (b) 04 45 hours
 (c) 15 42 hours (d) 02 20 hours
3. (a) 02 18 hours (b) 21 45 hours
 (c) 06 12 hours (d) 23 05 hours
 (e) 05 35 hours (f) 20 27 hours
 (g) 01 38 hours (h) 12 00 hours
4. (a) 5:48 am (b) 1:52 pm
 (c) 3:35 am (d) 11:45 am
 (e) 6:04 am (f) 3:15 pm
 (g) 11:09 pm (h) 8:05 pm
 (i) 12 midnight
5. Time- 11:30 am, 3:56 pm, 4:01 pm, 5:21 pm, 5:33 pm,
 9:35 pm, 9:40 pm, 3:50 am, 4:00 am, 2:45 pm, 3:00 pm
 (a) 9:35 pm (b) daytime (c) Vijaywada
 (d) ii

Exercise - 16C

1. Do it yourself
2. Do it yourself
3. (c) 1936 (d) 2012
4. (a) 18 days (b) 37 days (c) 68 days
5. (a) 16 August (b) 14 June (c) 8 March
6. Wednesday 7. Thursday
8. 9 years 4 months 9. 6 years 10 months
10. 1 week 4 days 11. 46 days
12. 48 days 13. 22 days
14. 28 October 15. 19 June
16. 7 March 17. 10 March

Exercise - 17A

1. (a) 12 cm (b) 11 cm (c) 9 cm
 (d) 10 cm (e) 11 cm (f) 11 cm
2. (a) 17 cm (b) 40 cm
3. (a) 15 cm (b) 41 cm (c) 54 cm
 (d) 54 cm

4. (a) 15 cm (b) 24 cm (c) 39 cm
 (d) 63 cm (e) 111 cm
5. (a) 4 cm (b) 6 cm (c) 14 cm
6. 1,800 m 7. 1,600 m
8. 100 metres 9. 850 m, ₹8,500

Exercise - 17B

1. (a) 4 cm (b) 12 cm (c) 16 cm
2. (a) 10 cm (b) 16 cm (c) 12 cm
3. (a) 28 cm (b) 60 cm (c) 42 cm (d) 80 cm
4. (a) 8 cm (b) 20 cm (c) 32 cm (d) 48 cm
 (e) 68 cm (f) 76 cm (g) 92 cm (h) 100 cm
 (i) 112 cm (j) 124 cm
5. (a) 9 cm (b) 13 cm (c) 18 cm (d) 21 cm
6. (a) 9 cm (b) 12 cm (c) 17 cm
 (d) 56 cm (e) 15 (f) 25 cm
7. 4 km 96 m 8. 2,268 m 9. 346 cm
10. 1,590 m 11. 27 m 50 cm, ₹82.50

Exercise - 17C

1. 12 sq cm 2. 13 sq cm 3. 13 sq cm
4. 10 sq cm 5. 31 sq cm 6. 24 sq cm
7. 18 sq cm 8. 26 sq cm

Exercise - 18A

1. (a) Bar graph shows the preference of colour of different number of students.
 (b) Blue colour (c) Black (d) 8 (e) 10
 (f) 12 (g) 17.7% (h) 15.7%
2. (a) Bar graph shows the number of hospitals from year 1992 to 1997.
 (b) 100 (c) 100-50=50
 (d) 1992-25; 1997: 200 (e) 200-25=175
3. (a) Bar graph shows the area of 5 regions on the earth.
 (b) Asia; 44 Million of km² (c) 16-8= Millions of 8 km²
 (d) 36-28=8 Million of km² (e) 80 Million of km²

Exercise - 18B

1. (a) perpendicular (b) horizontal (c) point of origin
 (d) bar graph, pictograph (e) scale (f) horizontal
2. (a) The bar graph shows runs scored by six batsmen in a T20 match. (b) Hardik scored maximum runs. (c) Kartik scored least number of runs. (d) Each batsman score the following runs: Rohit - 30, Shikhar-20, Virat - 40, Kartik - 15, Hardik - 50, Dhoni - 30 (e) Hardik scored half century. (f) 185 runs were scored in all.
3. (a) The bar graph shows the marks scored by five students in a maths test. (d) Roma scored the highest marks. (b) Payal score the least marks. (c) Only one student got less than 50 marks.

| Name | Marks | Name | Marks |
|--------|-------|--------|-------|
| Payal | 40 | Navjot | 80 |
| Adarsh | 60 | Roma | 100 |
| Shadab | 70 | | |