

Answers

Unit 1

1. (a) (i) 233 (ii) two hundred and thirty-three. (b) (i) 3478 (ii) three thousand and seventy-eight. (c) (i) 152 (ii) one hundred and fifty two (d) 4130 (ii) Four thousand one hundred and thirty. (e) (i) 1120 (ii) One thousand one hundred and twenty 2. (a) 2351 – two thousand three hundred and fifty one (b) 5402 – five thousand four hundred and two (c) 4003 – four thousand and three 4. (a) 400 (b) 50 (c) 9 (d) 1000 (e) 6000 (f) 7000 (g) 6 (h) 3 (i) 700 (j) 60 5. (a) 27 (b) 350 (c) 735 (d) 2146 (e) 5810 (f) 3300 (g) 7006 6. (a) three hundred and ninety six. (b) four thousand on hundred and thirty two (c) five thousand seven hundred and six (d) eight thousand and three hundred (e) seven thousand seven hundred and sixty five (f) two thousand six hundred and forty (g) one thousand nine hundred and three 7. (a) 7000 (b) 503 (c) 8002 (d) 9090 (e) 221 (f) 1500 **expanded form** 1. (a) $9643 = (9 \times 1000) + (6 \times 100) + (4 \times 10) + (3 \times 1)$ (b) $5469 = (5 \times 1000) + (4 \times 100) + (6 \times 10) + (9 \times 1)$ (c) $4890 = (4 \times 1000) + (8 \times 100) + (9 \times 10) + (0 \times 1)$ (d) $3367 = (7 \times 1) + (3 \times 100) + (3 \times 1000) + (6 \times 10)$ (e) $6008 = (0 \times 100) + (8 \times 1) + (0 \times 10) + (6 \times 1000)$ (f) $2034 = (3 \times 10) + (2 \times 1000) + (0 \times 100) + (4 \times 1)$ (g) $7801 = (1 \times 1) + (8 \times 100) + (7 \times 1000) + (0 \times 10)$ 2. (a) 2357 (b) 7143 (c) 1588 (d) 3792 (e) 6666 (f) 3278 (g) 2220 3. (a) $4000 + 600 + 80 + 2$ (b) $7000 + 0 + 40 + 0$ (c) $2000 + 900 + 60 + 3$ (d) $9000 + 100 + 0 + 0$ (e) $3000 + 800 + 90 + 1$ (f) $5000 + 0 + 0 + 9$ (g) $1000 + 900 + 80 + 0$ 4. (a) 2 thousands + 4 hundreds + 6 tens + 3 units (b) 1 thousand + 8 hundreds + 0 tens + 5 units (c) 9 thousands + 1 hundred + 1 ten + 4 units (d) 8 tens + 9 hundreds + 3 thousands + 7 units (e) 8 hundreds + 0 ten + 7 thousands + 2 units (f) 0 hundred + 4 thousands + 5 units + 5 tens (g) 3 tens + 2 hundreds + 8 units + 5 thousands 6. (a) 1099, 1098, 1097 (b) 5700, 5800, 5900 (c) 3000, 5000, 7000 (d) 3000, 3050, 3075 (e) 10000, 9000, 8000 (f) 7250, 7350, 7400 7. (a) 439 , 440 , 442 , 443 , 444, 445, 447 (b) 2110, 2111, 2113, 2114, 2116, 2117, 2118 8. (a) 8000, 7000, 5000, 3000, 1000 (b) 4321, 4123, 3421, 2134, 1234 9. (a) 4050, 4500, 5004, 5040, 5400 (b) 1500, 2750, 3250, 3500, 4200 10. 800 11. 6050 12. 2200 13. (a) 9999 (b). Nine thousand nine hundred ninety-nine 14. (a) 3589 (b) 9853 15. 8172

Unit 2

1. (a) 49 (b) 67 (c) 438 (d) 646 2. (a) 5585 (b) 9776 (c) 7879 (d) 9743 (e) 9851 (f) 8120 3. (a) 4666 (b) 8418 (c) 7737 (d) 8511 4. (a) 5559 (b) 6102 (c) 7482 5. 1758 pages 6. 8191 dholl puris 7. 8818 parcels 8. 1363 fruits 9. 1328 10(a). Rs 3908 10 (b). Rs 7371 11. 7470 12. Rs 5524 13. Rs 6650 14. 9829 visitors 15(a). 2365 + 4133 = 6498 15(b). 5586 + 3114 = 8700 15(c). 3575 + 1958 = 5533 15(d). 2583 + 3646 = 6229 16(a). 1935 tourists 16(b). 2910 tourists

Unit 3

1. (a) 814 (b) 435 (c) 116 (d) 480 2. (a) 6844 (b) 7012 (c) 5801 (d) 6839 (e) 2959 (f) 3919 3. (a) 3644 (b) 2119 (c) 3223 (d) 1478 4. (a) 1081 (b) 5304 (c) 1774 5. 3313 6. (a) 5156 (b) 2001 7. (a) 1118 (b) 4556 (c) 2472 (d) 2925 8. $5001 - 3022 = 1979$ 9. 414 mangoes 10. 1575 11. 858 building blocks 12(a). 917 girls (b). 1927 children 13. 1024 marbles 14(a). Rs 3660 (b). Rs 9660

Unit 4

1. $1 \times 2 = 2$ $2 \times 2 = 4$ $3 \times 2 = 6$ $4 \times 2 = 8$ $5 \times 2 = 10$ $6 \times 2 = 12$ $7 \times 2 = 14$ $8 \times 2 = 16$ $9 \times 2 = 18$ $10 \times 2 = 20$ 2. (b) $7 \times 3 = 3 \times 7 = 21$ (c) $8 \times 4 = 4 \times 8 = 32$ (d) $9 \times 6 = 6 \times 9 = 54$ (e) $5 \times 7 = 7 \times 5 = 35$ (f) $3 \times 1 = 1 \times 3 = 3$ (g) $3 \times 12 = 12 \times 3 = 36$ (h) $2 \times 11 = 11 \times 2 = 22$ 3. (a) $23 \times 45 = 45 \times 23$ (b) $15 \times 37 = 37 \times 15$ (c) $99 \times 10 = 10 \times 99$ (d) $51 \times 84 = 84 \times 51$ 4. (a) 80, (b) 530 (c) 2250 (d) 100 (e) 2700 (f) 2000 (g) 40 (h) 620 (i) 6590 (j) 300 (k) 3400 (l) 9000 5. (a) 80 (b) 940 (c) 420 (d) 600 (e) 9500 (f) 6600 6. (a) 69 (b) 350 (c) 486 (d) 1620 (e) 1665 (f) 2548 7. (a) 832 (b) 805 (c) 1472 (d) 2952 8. (a) 230, (b) 1700, (c) 798 9. (a) 16, 6 (b) 1800 10. 300 chocolate bars 11. 333 candles 12. 560 tomato plants 13. 4600 passengers 14. 126 days 15. Rs 4536 16. 2286 pages 17. 6600 newspapers 18. 2880 chairs 19. (a) Rs 7800 (b) Rs 9360 20. (a) 2700 lollipops (b) 1987 lollipops

Unit 5

1. $10 \div 2 = 5$ or $5 \times 2 = 10$ 2. $12 \div 3 = 4$ or $4 \times 3 = 12$ 3. (a) $18 \div 3 = 6$ / $6 \times 3 = 18$ (b) $24 \div 6 = 4$ / $4 \times 6 = 24$ 4. (a) 7 (b) 5 (c) 7 (d) 71 (e) 30 (f) 106 5. (a) 9 (b) 16 (c) 53 (d) 30 (e) 2191 (f) 424 6. (a) 13 R 1 (b) 10 R 2 (c) 37 R 4 (d) 34 R 2 (e) 34 r 3 (f) 446 R 6 7. (a) 4 (b) 2 (c) 6 (d) 11 (e) 7 (f) 4 (g) 9 (h) 24 (i) 50 (j) 96 Q8

(a) 35 (b) 18 (c) 42 (d) 710 (e) 226 (f) 900 **9.** (a) 5 (b) 10 (c) 18 (d) 39 (e) 56 (f) 70 **10.** 12 bones **11.** 24 boxes **12.** 28 trays **13.** 16 books **14.** 81 times **15.** 28 sweets **16.** 91 **17.** 6 boxes **18.** 32 stickers **19(a).** 33 pastries **19(b).** 38 pastries **20(a).** 13 cookies **20(b).** 5 cookies **21(a).** 25 party bags **21(b).** 100 chocolates

Unit 6

2. (a) 20, 24, 28 (b) 45, 50, 55 (c) 20, 23, 26 (d) 39, 41, 43 (e) 60, 70, 80 **3.** (a) 155, 165, 175 (b) 385, 415, 445 (c) 624, 724, 824 (d) 2800, 2900, 3000 (e) 1650, 1700, 1750 **4.** (a) 16, 15, 14 (b) 20, 18, 16 (c) 28, 25, 22 (d) 55, 44, 33 (e) 50, 45, 40 **5.** (a) 100, 85, 70 (b) 125, 100, 75 (c) 500, 400, 300 (d) 8100, 8000, 7900 (e) 960, 910, 860 **6.** (a) 32, 64 (b) 81, 243 (c) 208, 416 (d) 324, 972 (e) 400, 800 (f) 1875, 9375 **7.** (a) 10, 5 (b) 3, 1 (c) 34, 17 (d) 12, 3 (e) 250, 125 (f) 10, 2 **8.** (a) 40, 50, 100 (b) 203, 205, 210 (c) 750, 1000, 1050 (d) 3000, 5000, 8000 (e) 31, 51, 81 (f) 6, 18, 162

Unit 7

1. 6, 14, 20 **2.** 19, 23, 45 **3.** C **4.** (a) 48 (b) 81 **5.** C **6.** (a) odd (b) even **7.** (a) 67: odd (b) 76: even (c) 231: odd (d) 498: even (e) 7330: even (f) 9979: odd **8.** even **9.** No, it is an even number. **10.** 2502, 2504, 2506, 2508, 2510, 2512, 2514, 2516, 2518 **11.** 1241, 1243, 1245, 1247, 1249, 1251, 1253, 1255, 1257, 1259, 1261 **12.** (a) 51 (b) 1364 (c) $501 - 16 = 485$ **13.** Even: 0, 14, 22, 118, 516, 700 Odd: 5, 9, 31, 227, 403, 875 **14.** (a) 7, 9, 13, (b) 100, 102, 106 (c) 103, 107, 111 (d) 216, 218, 220 (e) 830, 836, 840 (f) 421, 423, 427

Unit 8

1. & 2. Shade 1 part in each picture. **3.** (b) $\frac{1}{2}$ One half (c) $\frac{1}{6}$ One sixth (d) $\frac{3}{9}$ Three ninths (e) $\frac{5}{6}$ Five sixths (f) $\frac{4}{8}$ four eighths **5.** (a) $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ (b) $\frac{1}{5}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{4}{5}$ (c) $\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{6}$ **6.** (a) one half (b) three quarters (c) two fifths (d) seven ninths (e) five eighths (f) three tenths (g) one sixth (h) three sevenths **7.** $\frac{1}{6}$, $\frac{2}{6}$, $\frac{4}{6}$, $\frac{5}{6}$ **8.** $\frac{9}{10}$, $\frac{7}{10}$, $\frac{5}{10}$, $\frac{4}{10}$ **9.** Arrow must point to number 1. **Mixed numbers and Improper fractions 1.** $1\frac{1}{5}$, $5\frac{3}{4}$ **2.** $\frac{7}{6}$, $3\frac{2}{3}$, $\frac{6}{2}$ **3.** (a) $2\frac{4}{5}$ (b) $4\frac{1}{2}$ (c) $1\frac{3}{4}$ (d) $5\frac{3}{8}$ (e) $7\frac{1}{6}$ **Equivalent fractions 1.** (a) $\frac{2}{4}$ (b) $\frac{4}{8}$ **2.** (a) $\frac{2}{8}$ (b) $\frac{3}{12}$ **3.** (a) $\frac{2}{3} = \frac{6}{9}$ (b) $\frac{1}{5} = \frac{3}{15}$ (c) $\frac{3}{4} = \frac{9}{12}$ (d) $\frac{5}{7} = \frac{10}{14}$ (e) $\frac{5}{6} = \frac{10}{12}$ (f) $\frac{4}{7} = \frac{16}{28}$ (g) $\frac{1}{2} = \frac{5}{10}$ (h) $\frac{2}{5} = \frac{20}{50}$

(i) $5/9 = 15/27$ **4.** (a) $20/25 = 4/5$ (b) $2/4 = 6/12$ (c) $4/18 = 2/9$ (d) $22/24 = 11/12$ (e) $4/16 = 1/4$ (f) $6/12 = 1/2$ (g) $18/20 = 9/10$ (h) $8/10 = 7/5$ (i) $6/18 = 1/3$ **3.** $1/2$, $5/8$, $3/4$ **4.** $4/5$, $7/10$, $1/2$ **Comparing fractions** **1.** (a) smaller than (b) greater than (c) greater than (d) greater than (e) smaller than (f) equal to **2.** $3/4$ **3.** $1/5$ **Addition** **1.** (a) $3/5$ (b) $5/7$ (c) $2/3$ (d) $5/6$ (e) $8/9$ (f) $3/4$ (g) $7/10$ (h) $5/8$ **2.** (a) $7/10$ (b) $7/8$ (c) $4/5$ or $8/10$ (d) $4/9$ (e) $5/6$ (f) $9/10$ (g) $8/9$ (h) $5/6$ **Subtraction** **1.** (a) $1/5$ (b) $2/6$ or $1/3$ (c) $5/10$ or $1/2$ (d) $3/8$ (e) $2/9$ (f) $1/4$ (g) $2/4$ or $1/2$ **2.** (a) $3/10$ (b) $2/9$ (c) $1/8$ (d) $1/4$ (e) $3/8$ (f) $3/6$ or $1/2$

Unit 9

1. (a) not parallel (b) parallel (c) parallel (d) not parallel **Horizontal, Vertical and Inclined** **1.** third line **3.** Draw an inclined line **4.** (a) Mauritius, India (b) Canada, France **5.** (a) inclined upwards (b) vertical (c) horizontal (d) inclined downwards **6.** (a) 1, 2, 2 (b) 2, 2, 2 (c) 4, 3, 4 **7.** inclined – paintbrush / horizontal – toothbrush / vertical – nail

Unit 10

1. (a) b, a (b) r, s (c) y, x **3.** d, b, a, c **Right angle** **1.** 2^{nd} and 3^{rd} angles **2.** 1^{st} – 2 right angles 2^{nd} – 2 right angles 3^{rd} – 2 right angles 4^{th} – 4 right angles 5^{th} – 2 right angles 6^{th} – 4 right angles **3.** (a) G (b) F (c) E

Unit 11

1. 2^{nd} , 3^{rd} and 5^{th} **3.** (a) False (b) True (c) True (d) False **4.** (a) 3 (b) 2 **6.** (a) i. square ii. $CD = AD$ iii. BC iv. 4, 4 (b) circle, no, curved

Unit 12

1. 1^{st} – 4^{th} / 2^{nd} – 1^{st} / 3^{rd} – 5^{th} / 4^{th} – 2^{nd} / 5^{th} – 3^{rd} **2.** faces – 6 / 6 ; vertices 8 / 8 edges 12 / 12 **3.** (a) flat faces: 2, vertices: 0, Yes (b) Cone: flat faces: 1, vertices: 1. Yes (c) sphere **4.** (a) cube (b) cylinder (c) cone **5.** (a) True (b) False (c) True (d) False (e) False (f) True

Unit 13

1. (b) 4 o'clock 2. (a) 8 o'clock (b) 1 o'clock 3. (a) Minute hand on 12 and hour hand on 2 (b) Minute hand on 12 and hour hand on 7 4. (a) half past nine (b) half past three (c) quarter past five (d) quarter past eleven (e) quarter to two (f) quarter to eleven 5. (a) min hand on 6 and hour hand halfway 6 and 7 (b) min hand on 6 and hour hand halfway 1 and 2 (c) min hand on 3 and hour hand is just a little past 8. (d) min hand on 3 and hour hand is just a little past 4. (e) min hand on 9 and hour hand is almost at 9 (f) min hand on 9 and hour hand is almost at 12. 6. (a) Five minutes past two (b) Five minutes to two (c) Twenty minutes past six (d) Half past eight (e) Twenty five minutes to eight (f) Ten minutes past eleven 7. (a) Five minutes to two (b) twenty five minutes past five 8. (a) 06:05 a.m. /p.m. (b) 06:40 a.m. / p.m. (c) 03:45 a.m. / p.m.

Unit 15

1. (a) (a) 6 (b) 9 (c) 5 (d) 6 2. (a) m (b) cm (c) m (d) cm (e) cm (f) cm (g) m (h) m 3. (a) 400 cm (b) 600 cm (c) 700 cm (d) 1100 cm (e) 2500 cm (f) 125 cm (g) 350 cm (h) 975 cm 4. (a) 2 m (b) 3 m (c) 9 m (d) 33 m (e) 28 m (f) $4\frac{1}{4}$ m (g) $3\frac{3}{4}$ m (h) $6\frac{1}{2}$ m (i) $12\frac{1}{2}$ m (j) $8\frac{3}{4}$ m 5. (a) 310 cm (b) 145 cm (c) 232 cm (d) 460 cm (e) 570 cm (f) 1320 cm (g) 206 cm (h) 405 cm (i) 502 cm 6. (a) 6 m 90 cm (b) 9 m 20 cm (c) 2 m 72 cm (d) 4 m 35 cm (e) 7 m 50 cm (f) 5 m 70 cm (g) 8 m 9 cm (h) 3 m 80 cm 7. (a) 93 cm (b) 1825 cm (c) 85 m (d) 54 m (e) 7 m 56 cm (f) 7 m 37 cm 8. (a) 415 cm (b) 80 m (c) 8 m 141 cm 9. (a) 450 cm (b) 50 cm (c) 17 m (d) 79 m (e) 4m55 cm (f) 7m49 cm 10.(a) 506 cm (b) 64 m (c) 1 m 5 cm 11. 21 m 45 cm 12. 2372 cm 13. 300 cm / 3 m 14. 2 m 77 cm 15. 1800 16. 1835 cm 17. 2110 cm 18. 152 cm 19. 424 m 20. 215 m 21. 70 cm 22. 167 cm 23. 715 cm 24. 3750 25. 21 m 75 cm 25. (a) 700 cm (b) 161 m (c) 7 m 65 cm 26. 13 m 50 cm 27. 250 cm 28. 2000 m 29. 62 m 30. 498 cm 31. 73 cm / 19 m / 3 m 2 cm 32. (a) 3 m 66 cm (b) 10 m 38 cm 33. 12 m 34. 8 parts 35. 162 cm 36. 3 m 65 cm

Unit 16

1. cL; L ; cL; L; L ; cL 2. 24 cL; 2 L; $\frac{1}{2}$ cL 3. (a) 100 cL (b) 600 cL (c) 500 cL (d) 300 cL (e) 400 cL (f) 700 cL (g) 1000 cL (h) 1300 cL 4. (a) 2 L (b) 4 L (c) 7 L (d) $1\frac{1}{4}$ L (e) $3\frac{1}{2}$ L (f) $6\frac{1}{2}$ L (g) $9\frac{3}{4}$ L (h) $5\frac{1}{4}$ L 5. (a) 127 cL (b) 300 cL (c) 8 L 68 cL (d) 8 L 57

cL **6.** (a) 43 L (b) 44 L 10 cL (c) 77 L 1 cL **7.** (a) 34 cL (b) 46 L (c) 3 L 81 cL (d) 2 L 56 cL **8.** (a) 2 L 50 cL (b) 3 L 2 cL (c) 3 L 65 cL **9.** 31 L **10.** 1 L 83 cL **11.** 16 L 31 cL **12.** (a) 3 L 25 cL (b) 5 $\frac{3}{4}$ L **13.** 37 cL **14.** 95 cL **15.** 1483 cL **16.** 144 cL **17.** 265 cL **18.** (a) 2 L 90 cL (b) 455 cL (c) 22 L 88 cL (d) 5 L 78 cL (e) 7 L 71 cL (f) 10 L 34 cL **19.** 60 cL **20.** 17 L 50 cL **21.** 84 L 30 cL **22.** 355 cL **23.** 360 cL **24.** 21 cL **25.** 20

Unit 17

1. Baby – 5 kg / Chips – 150 g / Sofa – 20 kg / Comb – 6 g **2.** (a) kg (b) g (c) g (d) kg (e) g **3.** (a) 40 (b) 95 **4.** (a) Arrow points toward 3 (b) arrow points toward 5 **5.** (a) 4000 (b) 11 000 (c) 18 000 (d) 20 000 (e) 3250 (f) 9500 (g) 12 750 (h) 1240 (i) 7050 (j) 2065 **6.** (a) 8 (b) 13 (c) $\frac{3}{4}$ (d) $6\frac{1}{4}$ (e) $4\frac{1}{2}$ (f) $10\frac{3}{4}$ **7.** (a) 87 kg (b) 1640 g (c) 5310 g (d) 7070 g **8.** (a) 4 kg 430 g (b) 19 kg 165 g (c) 10 kg 504 g **9.** (a) 56 kg (b) 1125 g (c) 2147 g (d) 2400 g **10.** (a) 2 kg 230 g (b) 24 kg 959 g (c) 4 kg 188 g **11.** 675 g **12.** 7 **13.** (a) 1260 g (b) 2270 g **14.** 33 **15.** 615 g **16.** 3 kg 550 g **17.** 4 kg 805 g **18.** (a) 4250 g (b) 1 kg 105 g **19.** (a) 104 kg (b) 7524 g (c) 24 kg 400 g (d) 501 g (e) 1 kg 687 (f) 650 g **20.** 3 kg 400 g **21.** (a) 36 kg 750 g (b) 55 kg 125 g **22.** 2 kg / 3195 g **23.** 6360 g **24.** 7 kg **25.** 1050 g **26.** 1967 **27.** 850 **28.** 1600 g

Unit 18

1. (a) 3 pupils (b) Strawberry (c) 3 pupils (d) mango **2.** (a) 4 goals (b) Team C (c) 1 goal (d) 15 goals **3.** (a) Ah Fat (b) Carla (c) 7 burgers (d) 8 burgers **4.** (a) 5 (b) Tuesday (c) Thursday (d) Monday and Friday (e) 29 **5.** (a) Avocado (b) 3 children (c) 2 children (d) kiwi (e) 12 children **6.** (a) 9 customers (b) Pizza (c) 3 customers (d) Burger and Hot Dog (e) 42 customers **7.** (a) 7 hippos (b) zebras (c) 5 giraffes (d) 21 animals