

Key book

Understanding Mathematics

SPECIAL EDITION

4



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UNIT 1

Page No. 5

1. 1 EFG FGH GHI HIJ
 2 111V 108U 105T 102S
 3 5999 4999 3999 2999
 4 505 606 707 808
2. 1 AB1 BC2 CD3 DE4 EF5 FG6 GH7
 2 123A 234B 345C 456D 567E 678F 789G

Page No. 6

1. 1  2  3 

Page No. 7

1. 1 ✓ 3 ✓

Page No. 9

4. A B C D E H I M O T U V W X Y

UNIT 2

Page No. 14

1. 1 9
 10 99
 100 999
 1000 9999
1. 1. Ninety-nine
 2. Nine hundred and nine
 3. Seven thousand six hundred and twenty-one
 4. Six thousand
 5. Nine thousand nine hundred and ninety-nine
2. 1. 808 2. 3020 3. 9987 4. 9090 5. 4004

Page No. 15

3. 1. 2627 2628 2629 2630
 2. 3530 3540 3550 3560
 3. 6305 6405 6505 6605
 4. 6999 7999 8999 9999
4. 1. 70 2. 8 3. 9 4. 6
5. 1. $4000 + 600 + 90 + 7$ 2. $8000 + 600 + 50 + 0$
 3. $3000 + 400 + 20 + 9$ 4. $7000 + 700 + 70 + 7$
 5. $9000 + 0 + 30 + 1$
6. 1. 5306 2. 3555 3. 7066 4. 9009 5. 5505
7. 1379 8. 6410

Page No. 17

1. 1. 100000 2. 10000 99999
3. 1000000 4. 999999
2. 1. Twenty one thousand nine hundred and seventy-five
2. Fifty thousand and ninety-seven
3. Forty five thousand and nine
4. Twelve thousand three hundred and forty-five
5. Ninety nine thousand nine hundred and ninety-nine
3. 1. 16549 2. 12222 3. 30540 4. 60400 5. 70707
4. 1. 1000 2. 100 3. 100000 4. 999 5. 99999
6. 9999 7. 10000 8. 999999 9. 1000000 10. 99

Page No. 20

1. 1. 5,32,651 Fivelakh thirty two thousand six hundred and fifty-one
2. 1,00,000 One lakh
3. 8,35,207 Eight lakh thirty five thousand two hundred seven
4. 9,78,032 Nine lakh seventy eight thousand and thirty-two
5. 10,00,000 Ten lakhs
2. 1. 5,60,728 2. 3,60,006 3. 5,66,090 4. 7,85,303 5. 45,33,197
3. 1. Nine million, eight hundred seventy one thousand and twenty-three
2. Four million, nine hundred ninety nine thousand and three hundred one
3. Six million, seven hundred eighty three thousand and five hundred twelve
4. Four hundred seventy six thousand and four hundred fifteen
5. Seven million, nine hundred thirteen thousand and six hundred forty
4. 1. 628,491 2. 105,248 3. 7,634,425
4. 1,000,001 5. 10,000,000
5. 1. thousand-thousand make a million
2. Ten lakhs make a million
3. Hundred ten thousand make a million

Page No. 21

1. 1. 60,000 3. 8,00,000 5. 70,00,000
2. 70 4. 9,00,000 6. 0

- | | | | | |
|----|------------|-----------|-----------|-----------|
| 2. | 1. 6000000 | 2. 800000 | 3. 300000 | 4. 500000 |
| | 200000 | 70000 | 90000 | 0 |
| | 80000 | 5000 | 8000 | 0 |
| | 9000 | 400 | 700 | 800 |
| | 0 | 30 | 10 | 60 |
| | 10 | 9 | 5 | 2 |
| | 4 | | | |
-
- | | | | | |
|----|-------------|----------|-----------|-------------|
| 3. | 1. 5,00,005 | 2. 5,050 | 3. 50,500 | 4. 5,50,000 |
| 4. | 1. 300 | 2. 2997 | 3. 2700 | 4. 27000 |

Page No. 22

- 2 ten-thousands + 7 thousands + 3 hundreds + 1 tens + 5 ones
 - 9 lakhs + 7 ten-thousands + 3 thousands + 4 hundreds + 8 tens + 6 ones
 - $(7 \times 100000) + (8 \times 10000) + (3 \times 1000) + (4 \times 100) + (2 \times 10) + (9 \times 1)$
 - $60000 + 3000 + 800 + 40 + 7$
 - $90000 + 4000 + 700 + 0 + 5$
- 9,54,628
 - 7,00,777
 - 40,04,044
 - 3,56,245
 - 9,00,864

Page No. 23

- $>$
 - $<$
 - $=$
- 15,903
 - 6,506
- 81,799
 - 93,709

Page No. 24

- | | | | |
|----------|--------|--------|--------|
| 1. 70198 | 70918 | 71098 | 79018 |
| 2. 23769 | 26763 | 27639 | 29763 |
| 3. 90841 | 93208 | 94801 | 95802 |
| 4. 66057 | 66507 | 66570 | 66750 |
| 5. 14827 | 235131 | 413286 | 823141 |
 - | | | | |
|------------|--------|--------|--------|
| 1. 68609 | 68608 | 48608 | 46806 |
| 2. 24606 | 23947 | 20444 | 17405 |
| 3. 32144 | 31411 | 14411 | 14144 |
| 4. 91520 | 91340 | 91232 | 90420 |
| 5. 6606660 | 666660 | 666606 | 666066 |
- 543210
 - 965321
 1. 103678
 2. 102345
- $200000 + 0 + 8000 + 600 + 0 + 0$
 - $500000 + 40000 + 3000 + 200 + 10 + 7$
 - $100000 + 10000 + 5000 + 900 + 70 + 1$
 - $300000 + 50000 + 7000 + 100 + 80 + 3$

6. 1. 4995 2. 89991 3. 72 4. 199998

7. 305008

Page No. 26 MCQ - I

- | | | | |
|--------------|----------------|-------------|-------------|
| 1. one lakh | 2. one million | 3. one lakh | 4. 3,04,587 |
| 5. 70,70,071 | 6. 80,000 | 7. 30,903 | 8. 3 |
| 9. 7 | 10. 562003 | | |

UNIT 3

Page No. 27

- | | | | | |
|------------|---------------|----------|---------------|---------|
| 1. 1. 7600 | 2. 8594 | 3. 6948 | 4. 6294 | |
| 2. 1. 560 | 2. 970 | 3. 180 | 4. 86 | 5. 2380 |
| 3. 1. 7947 | 2. 3932, 7947 | | 3. 1565, 5195 | |
| 4. 1. 5672 | 2. 3462 | 3. 89256 | 4. 6701 | |

Brain Tuner

200, 10, 90, 100 160, 170, 250, 140

Page No. 28

1. 1. 748569 2. 679383 3. 998987

Identifying Patterns

6, 9, 12, 15, 18, 21, 24, 27
3

Page No. 29

- | | | | |
|--------------|-----------|------------|-----------|
| 1. 1. 140972 | 2. 133766 | 3. 1146966 | 4. 812181 |
| 5. 827499 | 6. 672228 | | |
| 2. 1. 64302 | 2. 62424 | 3. 43262 | |
| 33421 | 55361 | 53131 | |
| + 11537 | + 52732 | + 22566 | |
| 109260 | 170517 | 118959 | |

Page No. 30

3. 1. 56,574 2. 44,290 3. 5,21,525 4. 25,155 5. 7,47,756

Identifying Patterns

355, 455, 555, 655, 755, 855, 955

1. 355, 455, 555, 655

2. 1 3. 10 4. 100

Page No. 31

- | | | | |
|------------------------------|---------------------------|---------|---------|
| 1. 1. 341 | 2. 393 | 3. 6278 | 4. 2017 |
| 2. 1. 60 | 2. 300 | 3. 1000 | |
| 3. 1. (i) $160 - 85 = 75$ | (ii) $160 - 75 = 85$ | | |
| 2. (ii) $900 - 330 = 570$ | (ii) $900 - 570 = 330$ | | |
| 4. 1. $222, 222 + 214 = 436$ | 2. $371, 371 + 369 = 740$ | | |

Page No. 32

- | | | |
|--------------|-----------|-----------|
| 1. 1. 257425 | 2. 652152 | 3. 880210 |
| 2. 1. 41324 | 2. 553113 | 3. 215711 |

Brain Tuner

879, 246, 99, 133

789, 218, 112, 432

Page No. 33

- | | | |
|---------------------|-----------------|-----------------|
| 1. 1. 36253 | 2. 531212 | 3. 234673 |
| 4. 310969 | 5. 516707 | 6. 368008 |
| 2. 1. 43145 | 2. 287859 | 3. 28466 |
| 4. 410528 | 5. 188877 | 6. 641976 |
| 3. 1. 888888 | 2. 593810 | 3. 754672 |
| – 765342 | – 162306 | – 415442 |
| <u>123546</u> | <u>431504</u> | <u>339230</u> |

Page No. 34

- | | | | | |
|---------------------------------------|-----------|-----------|---------|-----------|
| 4. 1. 35765 | 2. 374557 | 3. 660958 | 4. 1000 | 5. 474355 |
| 5. 1. 90068 | 2. 393019 | 3. 628898 | | |
| 4. Anand's flat is costly by ₹ 184000 | | 5. 29804 | | |
| 1. 2309648 | 2. 61209 | | | |

Page No. 36

- | | |
|---------------------------|---------------------------|
| 4. 1. 65; $40 + 25 = 65$ | 2. 51; $91 - 40 = 51$ |
| 3. 368; $168 + 200 = 368$ | 4. 657; $757 - 100 = 657$ |

Page No. 38

1. 60, 30, 10, 60, 10, 40, 20, 30

Page No. 39

- | | | | |
|------------|----------|---------|----------|
| 2. 1. 1800 | 2. 9800 | 3. 1400 | 4. 7400 |
| 5. 5200 | 6. 3600 | | |
| 3. 1. 5000 | 2. 49000 | 3. 7000 | 4. 26000 |
| 5. 15000 | 6. 21000 | | |

Page No. 41

- | | | | |
|--------------------|-------------|-----------------|---------------|
| 1. 1. 90, 85 | 2. 150, 143 | 3. 110, 107 | 4. 130, 130 |
| 2. 1. 1000, 1014 | | 2. 800, 792 | |
| 3. 9600, 9566 | | 4. 9600, 9566 | |
| 3. 1. 57000, 56982 | | 2. 49000, 48835 | |
| 3. 32000, 32423 | | | |
| 1. 1. 300, 228 | 2. 400, 351 | 3. 400, 361 | 4. 3800, 3778 |
| 2. 1. 21000, 20894 | | 2. 12000, 11610 | |
| 3. 34000, 33999 | | | |

Page No. 43 MCQ - II

- | | | | |
|----------|------------------------|-----------|----------|
| 1. 1590 | 2. 404040 | 3. 106679 | 4. 1 |
| 5. 49950 | 6. 0 | 7. 16500 | 8. 44568 |
| 9. 728 | 10. $1256 + 1256 - 42$ | | |

UNIT 4

Page No. 45

- | | | | |
|-----------|---------|---------|---------|
| 1. 1. 119 | 2. 0 | 3. 314 | 4. 0 |
| 5. 525 | 6. 0 | | |
| 2. 1. 996 | 2. 3816 | 3. 6643 | 4. 1760 |
| 5. 6369 | 6. 8534 | 7. 7770 | 8. 6110 |
| 3. 1. 25 | 2. 19 | 3. 87 | 4. 363 |
| 5. 6 | 6. 246 | 7. 893 | |

Page No. 46

- | | | | |
|-------------|------------|-------------|-------------|
| 4. 1. 470 | 2. 500 | 3. 900 | 4. 1400 |
| 5. 19400 | 6. 44800 | 7. 7350 | 8. 6360 |
| 9. 64470 | 10. 173000 | 11. 175000 | 12. 362700 |
| 13. 1002000 | 14. 852000 | 15. 1524000 | 16. 8550000 |
| 5. 1. 15010 | 2. 25126 | 3. 21315 | |

Puzzle

$$87 \times 9 = 783$$

$$23 \times 1 = 23$$

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- | | | | |
|----------|-------|-------|-------|
| 1. 1. 63 | 2. 40 | 3. 56 | 4. 54 |
|----------|-------|-------|-------|

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- | | | | |
|-----------|----------|--------|---------|
| 1. 1. 296 | 2. 1290 | | |
| 2. 1. 145 | 2. 399 | 3. 438 | 4. 2781 |
| 5. 16268 | 6. 22946 | | |

Page No. 49

- | | | | |
|-----------|-----------|-----------|-----------|
| 1. 1. 726 | 2. 943 | 3. 1596 | 4. 2613 |
| 5. 3915 | 6. 10404 | 7. 14828 | 8. 27136 |
| 9. 29700 | 10. 16506 | 11. 26228 | 12. 38269 |

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- | | | | | |
|------------|------------|------------|------------|----------|
| 13. 149332 | 14. 155376 | 15. 295355 | 16. 75012 | |
| 2. 1. 1612 | 2. 32319 | 3. 14938 | 4. 67815 | |
| 5. 5616 | 6. 45560 | 7. 129382 | 8. 193585 | |
| 9. 12075 | 10. 71495 | 11. 227328 | 12. 77231 | |
| 13. 20976 | 14. 31120 | 15. 68992 | 16. 303264 | |
| 3. 1. 840 | 2. 2565 | 3. 1332 | 4. 7290 | 5. 5985 |
| 6. 31608 | 7. 10530 | 8. 135000 | 9. 625875 | 10. 6000 |

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- | | | | |
|-------------|------------|------------|------------|
| 1. 1. 15792 | 2. 37269 | 3. 38766 | 4. 72372 |
| 5. 608672 | 6. 772188 | 7. 721395 | 8. 451440 |
| 9. 121600 | 10. 424790 | 11. 355880 | 12. 178273 |

Page No. 52

- | | | | |
|-------------|-------------|-------------|-------------|
| 13. 289173 | 14. 1421142 | 15. 1167975 | 16. 1528800 |
| 2. 1. 2369 | 2. 489904 | 3. 1395968 | 4. 1328652 |
| 5. 2020 | 6. 55272 | 7. 412146 | 8. 1306335 |
| 9. 17171 | 10. 367200 | 11. 1529136 | 12. 3778440 |
| 13. 18308 | 14. 244200 | 15. 1766217 | 16. 1214748 |
| 3. 1. 54621 | 2. 1512455 | 3. 1162965 | |

Page No. 53

- | | | | | |
|----------|----------|-----------|-----------|---------|
| 4. 36720 | 5. 39000 | 6. 150425 | 7. 361350 | 8. 2400 |
|----------|----------|-----------|-----------|---------|

Number Patterns on Multiplication

- | | |
|----------------------------------|------------|
| 1. 123454321, 12345654321 | 2, 3, 4, 7 |
| 2. 1443, 1554, 1665, 1776, 1887 | |
| 3. 1, 11, 21, 31, 41, 51, 61; 10 | |

Page No. 56

- | | | | | |
|------------|-----------|----------|----------|-----------|
| 1. 1. 864 | 2. 2250 | 3. 9912 | | |
| 2. 1. 2816 | 2. 1470 | 3. 1083 | 4. 2001 | 5. 1584 |
| 6. 3588 | 7. 18981 | 8. 28288 | 9. 17145 | 10. 35640 |
| 11. 19807 | 12. 18283 | | | |

Pattern Search

9999 = 49995	99999 = 499995
999999 = 4999995	9999999 = 49999995
99999999 = 499999995	

Multiples of 9

49995, 499995, 4999995, 49999995, 499999995

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- | | | |
|--------------|-----------|-----------|
| 1. 1. 3000 | 2. 5400 | 3. 900 |
| 2. 1. 360000 | 2. 360000 | 3. 240000 |

Pattern Search

27, 297, 2997, 29997, 299997, 2999997
 36, 396, 3996, 39996, 399996, 3999996

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Pattern Search

- | |
|--|
| 1. $6 \times 9999 = 59994 = 5+9+9+9+4=36=3+6 = 9$ |
| $6 \times 99999 = 599994 = 5+9+9+9+9+4=45 = 4+5 = 9$ |

$$6 \times 999999 = 5999994 = 5 + 9 + 9 + 9 + 9 + 9 + 4 = 54 = 5 + 4 = 9$$

$$6 \times 9999999 = 59999994 = 5 + 9 + 9 + 9 + 9 + 9 + 9 + 4 = 63 = 6 + 3 = 9$$

$$6 \times 99999999 = 599999994 = 5 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 4 = 72 = 7 + 2 = 9$$

$$6 \times 999999999 = 5999999994 = 5 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 4 = 81 = 8 + 1 = 9$$

$$6 \times 9999999999 = 59999999994 = 5 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 4 = 90 = 9 + 0 = 9$$

1. 27, 36, 45, 54, 63, 72, 81, 90; 9

2. 9 3. 5 and 4

2. $7 \times 9 = 63 = 6 + 3 = 9$

$$7 \times 99 = 693 = 6 + 9 + 3 = 18 = 1 + 8 = 9$$

$$7 \times 999 = 6993 = 6 + 9 + 9 + 3 = 27 = 2 + 7 = 9$$

$$7 \times 9999 = 69993 = 6 + 9 + 9 + 9 + 3 = 36 = 3 + 6 = 9$$

$$7 \times 99999 = 699993 = 6 + 9 + 9 + 9 + 9 + 3 = 45 = 4 + 5 = 9$$

$$7 \times 999999 = 6999993 = 6 + 9 + 9 + 9 + 9 + 9 + 3 = 54 = 5 + 4 = 9$$

$$7 \times 9999999 = 69999993 = 6 + 9 + 9 + 9 + 9 + 9 + 9 + 3 = 63 = 6 + 3 = 9$$

$$7 \times 99999999 = 699999993 = 6 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 3 = 72 = 7 + 2 = 9$$

$$7 \times 999999999 = 6999999993 = 6 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 + 3 = 81 = 8 + 1 = 9$$

1. 63, 693, 6993, 69993, 699993, 6999993, 69999993, 699999993, 6999999993

2. 9 3. 6 and 3

Page No. 60 MCQ - III

1. 7320

2. 48110

3. 0

4. ₹ 12

5. 5000

6. 1880

7. 700×40

8. 43×9

9. $4 \times 4 \times 100 \times 100$

10. $A = 225, B = 300$

UNIT 5

Page No. 61

1. 1. 145

2. 0

3. 1

4. 0

2. 1. 9, 1

2. 145, 3

3. 6, 2

4. 22, 7

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3. 1. 2685

2. 6611

4. 1. 95

2. 85

3. 54

4. 66

5. 907

6. 848

7. 203

8. 174

9. 556

10. 339

11. 106

12. 103

5. 1. 14, 1

2. 14, 1

3. 33, 4

4. 73, 7

5. 1598, 1

5. 37, 5

7. 658, 4

8. 78, 17

6. 1. 44

2. 42

Page No. 63

1. 1. 21157

2. 12344

3. 12656

4. 13547

5. 24312

6. 8437

7. 23132

8. 14887

9. 211743

10. 142324

11. 83567

12. 66278

Page No. 64

- | | | | |
|-----------|--------|--------|--------|
| 1. 1. 891 | 2. 822 | 3. 981 | 4. 976 |
| 5. 732 | 6. 395 | 7. 828 | 8. 488 |

Page No. 65

- | | | | |
|-----------|---------|---------|---------|
| 1. 1. 226 | 2. 192 | 3. 116 | 4. 19 |
| 5. 161 | 6. 216 | 7. 1788 | 8. 1764 |
| 9. 889 | 10. 673 | 11. 558 | 12. 789 |

Page No. 66

- | | | | |
|--------------|------------|------------|-------------|
| 1. 1. 126, 0 | 2. 971, 2 | 3. 26, 0 | 4. 213, 40 |
| 2. 1. 15, 5 | 2. 16, 3 | 3. 456, 6 | 4. 120, 23 |
| 5. 185, 17 | 6. 312, 15 | 7. 324, 20 | 8. 1007, 52 |

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- | | | | |
|--------------|------------|------------|------------|
| 1. 1. 951, 4 | 2. 848 | 3. 182, 10 | 4. 317, 4 |
| 5. 193, 29 | 6. 213, 40 | 7. 112, 8 | 8. 298, 14 |
| 2. 1. 307 | 2. 1943 | 3. 14029 | 4. 18661 |
| 5. 243525 | | | |

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- | | | | |
|--------------|------------|-------------|-------------|
| 1. 1. 9, 340 | 2. 2756, 3 | 3. 369, 40 | 4. 31900, 0 |
| 5. 4860, 0 | 6. 500, 0 | 7. 70060, 5 | 8. 9000, 42 |
| 9. 800, 75 | | | |

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- | | | | |
|-----------|---------|--------|-----------|
| 2. 1. 137 | 2. 43 | 3. 236 | 4. 25 |
| 5. 38 | 6. 23 | 7. 324 | 8. 359, 8 |
| 9. 314 | 10. 576 | | |

Identifying Patterns

1, 12, 123, 1234, 12345, 123456, 1234567, 12345678

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2000, 200, 20, 2	1000, 100, 10, 1
600	400
60	40
6	4
2	3
20	30
200	300
2000	3000

Worksheet

8, 48	66394, 0
7168	6510

Page No. 71 MCQ - IV

- | | |
|----------------------|--------------|
| 1. last three digits | 2. 43 |
| 3. 15 | 4. ₹ 20 |
| | 5. ₹ 1627.50 |

UNIT 6**Page No. 74**

- | | | | | |
|----------|---------|-----------|---------|-----------|
| 1. 1. ✗ | 2. ✓ | 3. ✗ | 4. ✓ | |
| 5. ✓ | 6. ✓ | | | |
| 2. 1. 16 | 2. 43 | 3. 39 | 4. 18 | 5. 24 |
| 6. 26 | 7. 47 | 8. 25 | 9. 400 | |
| 3. 1. XV | 2. XXVI | 3. XXXIII | 4. XLII | 5. XLVIII |
| 6. XVI | 7. XLV | 8. XXXIX | 9. LV | |
| 4. 1. < | 2. > | 3. = | 4. < | |
| 5. < | 6. < | | | |

UNIT 7**Page No. 77**

1. 1. Even numbers 34, 86, 90, 28, 62, 26, 18
 Odd numbers 15, 19, 73, 47, 61, 45, 33
2. 19, 21, 23, 25 3. 28, 30, 32, 34, 36
4. 83, 84, 85, 86, 87, 88, 89, 90, 91, 92
5. 98 6. 10 7. 99 8. 11
2. 2. ODD - It has 5 in ones' place
3. EVEN - It has 6 in ones' place
4. ODD - It has 1 in ones' place
5. EVEN - It has 0 in ones' place

Page No. 78

1. 1. 84 even 2. 132 even 3. 139 odd 4. 91 odd
2. 1. 544 even 2. 452 even 3. 467 odd 4. 466 even

Page No. 79**Adding Odd Numbers**

$1 + 3 + 5 + 7 + 9 + 11$	$= 36 \quad (6 \times 6)$
$1 + 3 + 5 + 7 + 9 + 11 + 13$	$= 49 \quad (7 \times 7)$
$1 + 3 + 5 + 7 + 9 + 11 + 13 + 15$	$= 64 \quad (8 \times 8)$

Adding Even Numbers

$2 + 4 + 6 + 8 + 10 + 12$	$= 42 \quad (6 \times 7)$
$2 + 4 + 6 + 8 + 10 + 12 + 14$	$= 56 \quad (7 \times 8)$

$12 \times 12 = 144$

$16 \times 16 = 256$

$13 \times 13 = 169$

$17 \times 17 = 289$

$14 \times 14 = 196$

$18 \times 18 = 324$

$15 \times 15 = 225$

$19 \times 19 = 361$

UNIT 8

Page No. 82

1. 470, 1340, 9000
2. 78, 159, 585, 6240, 3324
3. 625, 750, 9010, 995, 4830
4. 128, 240, 728, 954, 4232
5. 315, 477, 801, 2169, 8235
6. 5000, 6000
7. 1 and 3
8. 160, 265 yes, the sum will also be divisible by 5

2. 1. 0
2. 4
3. 0
4. 5
5. 0

Page No. 83 MCQ - V

1. 1000
2. subtraction
3. XCIX
4. 49
5. 1999
6. even
7. 100
8. 2
9. odd
10. 5

UNIT 9

Page No. 85

1. 3 sets 

Page No. 86

2. 2, 3, 4, 6, 8, 12, 24
3. 1. false 2. true 3. true
4. false 5. true 6. false
4. 1. 2, 4, 6, 9, 12, 18, 36 2. 3, 5, 9, 15, 45
3. 2, 4, 8, 16, 32, 64 4. 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72
5. 2, 4, 8, 11, 44, 88 6. 2, 3, 4, 6, 8, 12, 24, 32, 48, 96
5. 24 6. 1. 22 2. 30
7. 2. 18, 1; 2, 9; 3, 6 3. 12, 1; 2, 6; 3, 4
4. 14, 1; 2, 7

Puzzle

- 2, 3, 6, 1, 24, 12, 8
2, 5, 20, 10, 1, 4
3, 5, 1, 15
2, 7, 1, 14
9 and 16

Page No. 87

1. 1. 6, 12, 18, 24, 30 2. 11, 22, 33, 44, 55
 3. 16, 32, 48, 64, 80 4. 21, 42, 63, 84, 105
 5. 25, 50, 75, 100, 125
2. 25 3. 37

Page No. 89

1. 1. prime 2. composite 3. composite 4. prime 5. prime
 6. composite 7. composite 8. composite 9. composite
2. 1. 1 2. 2

Page No. 90

3. 3 4. 4 5. 2, 3 6. (3, 4) (11, 13) (17, 19)
 7. (2, 3) (2, 5) 8. (2, 7) (5, 7)
 9. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47
 10. 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 24, 26, 27, 28, 30,
 32, 33, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49
3. 1. 2 2. 1 3. 2 4. 1 5. 2

Page No. 91

1. 1. 10, 2, 5 2. 18, 2, 9, 3, 3
 3. 24, 2, 12, 2, 6, 2, 2, 3
2. 1. $3 \times 3 \times 5$ 2. $2 \times 2 \times 2 \times 3 \times 3$ 3. $2 \times 5 \times 7$
 4. 3×31 5. $3 \times 3 \times 7$ 6. 5×17 7. 7×7
 8. $2 \times 2 \times 2 \times 3 \times 5$ 9. $3 \times 3 \times 3 \times 5$
 10. $2 \times 2 \times 3 \times 3 \times 3$ 11. $2 \times 2 \times 3 \times 13$
 12. $2 \times 2 \times 2 \times 13$ 13. $2 \times 2 \times 2 \times 2 \times 3 \times 3$
 14. $2 \times 2 \times 3 \times 11$ 15. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

Page No. 92

1. 1. 1, 2, 3, 6 2. 1, 3, 5 3. 1, 2, 11
 1, 3, 5 1, 3, 7 1, 3, 11
 1, 3 1, 3 1, 11
4. 1, 2, 13 5. 1, 2, 13 6. 1, 2, 7
 1, 3, 13 1, 5, 13 1, 2, 3, 4
 1, 13 1, 13 1, 2
2. 1. 1, 3, 9 2. 1, 7 3. 1, 7
 4. 1, 3 5. 1, 3 6. 1, 3, 5

Page No. 93

1. 1. 4, 6, 8, 10, 12, 14, 16, 18, 20, 22
 6, 9, 12, 15, 18, 21, 24, 27, 30, 33
 6, 12, 18

2. 8, 12, 16, 20, 24, 28, 32, 36, 40, 44
10, 15, 20, 25, 30, 35, 40, 45, 50, 55
20, 40, 60
2. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
4, 8, 12, 16, 20, 24, 28
3. 1. 10, 20 2. 24, 48 3. 18, 36
4. 30, 60 5. 10, 20 6. 8, 16

Page No. 94

1. 1. 4, 8, 16, 24, 36 2. 4, 10, 20
3. 2, 9, 29 4. 2, 4, 8, 24 5. 24, 36, 42

Puzzles

12, 10, 12, 22

Page No. 95 MCQ - VI

1. a prime number 2. a composite number
3. 2 4. 2 5. 15 6. 4
7. 2, 5 8. 3 9. 2 10. 2 and 3

UNIT 10

Page No. 97

1. 1. $4, \frac{1}{4}, \frac{3}{4}$ 2. $3, \frac{1}{3}, \frac{1}{3}$ 3. $10, \frac{1}{10}, \frac{2}{5}$
4. $7, \frac{1}{7}, \frac{3}{7}$ 5. $9, \frac{1}{9}, \frac{4}{9}$ 6. $12, \frac{1}{12}, \frac{1}{3}$

Page No. 98

3. $\frac{3}{7}$
4. 1. two thirds 2. three fifths
3. seven ninths 4. one sixths
5. three fourths 6. two tenths
5. 1. $\frac{3}{5}$ 2. $\frac{5}{10}$ 3. $\frac{9}{11}$ 4. $\frac{8}{17}$
5. $\frac{13}{19}$ 6. $\frac{12}{17}$
6. 1. $\frac{5}{8}$ 2. $\frac{7}{19}$ 3. $\frac{4}{10}$ 4. $\frac{6}{12}$
7. 1. $\frac{3}{10}$ 2. $\frac{3}{4}$ 3. $\frac{3}{7}$

Page No. 99

1. 1. $\frac{1}{3} = \frac{2}{6} = \frac{3}{9}$ 2. $\frac{1}{4} = \frac{2}{8} = \frac{3}{12}$

2. 1. 2 2. 2 3. 3 4. 6
 5. 1 6. 2

Page No. 101

1. 1. $\frac{1}{4} = \frac{2}{8}$ 2. $\frac{2}{5} = \frac{4}{10}$ 3. $\frac{3}{5} = \frac{6}{10}$
 2. $\frac{2}{8}, \frac{3}{12}, \frac{4}{16}, \frac{5}{20}$
 3. 1. $\bullet \bigcirc = \bullet \bullet \bigcirc \bigcirc$ 2. $\bullet \bullet \bigcirc = \bullet \bullet \bullet \bullet \bigcirc \bigcirc$
 4. 1. $\frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$ 2. $\frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{6}{12}$
 3. $\frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25} = \frac{12}{30}$ 2. $\frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{15}{20} = \frac{18}{24}$
 5. 1. $\frac{1}{2}, \frac{2}{4}$ 2. $\frac{3}{9}, \frac{1}{3}$ 3. $\frac{4}{6}, \frac{2}{3}$
 6. 1. 2 2. 15 3. 3 4. 24
 5. 8 6. 44 7. 9 8. 35
 7. 1. 2, 9, 4, 15 2. 8, 6, 16, 10
 3. 6, 9, 12, 15 4. 8, 12, 16, 20

Page No. 102

1. 1. $\frac{2}{3}$ 2. $\frac{2}{7}$

Page No. 104

1. 1. $\frac{3}{4}$ 2. $\frac{6}{7}$ 3. $\frac{8}{10}$ 4. $\frac{2}{5}$
 5. $\frac{5}{9}$ 6. $\frac{2}{3}$
 2. 1. $\frac{3}{5}$ 2. $\frac{3}{6}$ 3. $\frac{7}{10}$ 4. $\frac{3}{11}$
 5. $\frac{6}{8}$ 6. $\frac{4}{6}$
 3. 1. $\frac{1}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}$ 2. $\frac{1}{8}, \frac{3}{8}, \frac{6}{8}, \frac{7}{8}$ 3. $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$ 4. $\frac{5}{13}, \frac{7}{13}, \frac{9}{13}, \frac{12}{13}$

Page No. 105

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

5. 1. smaller 2. greater 3. smaller 4. smaller
 5. greater 6. smaller
 6. 1. between 2. greater 3. smaller

Page No. 106

1. 1. $\frac{3}{5}, \frac{2}{5}, \frac{4}{5}$ 2. $\frac{8}{11}, \frac{9}{11}, \frac{5}{11}$
 3. $\frac{9}{13}, \frac{11}{13}, \frac{4}{13}$ 4. $\frac{6}{12}, \frac{9}{12}, \frac{5}{12}$
 2. 1. $\frac{3}{21}, \frac{8}{17}, \frac{1}{16}$ 2. $\frac{3}{10}, \frac{6}{14}, \frac{11}{18}$
 3. $\frac{2}{7}, \frac{6}{18}, \frac{21}{28}, \frac{9}{19}$ 4. $\frac{4}{6}, \frac{15}{18}, \frac{4}{20}$

Page No. 108

1. 1. $\frac{3+2}{7} = \frac{5}{7}$ 2. $\frac{4+5}{11} = \frac{9}{11}$
 3. $\frac{4+6+7}{17} = \frac{17}{19}$
 2. 1. 1 2. $\frac{6}{11}$ 3. $\frac{16}{18}$ 4. $\frac{11}{13}$
 5. $\frac{15}{16}$ 6. $\frac{9}{14}$
 3. 1. $\frac{5}{6}$ 2. $\frac{5}{7}$ 3. $\frac{1}{4}$ 4. $\frac{3}{5}$ 5. $\frac{3}{10}$

Brain Tuner

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

Page No. 109

1. $\frac{5}{15} + \frac{6}{15} = \frac{11}{15}$
 2. 1. $\frac{9}{13}$ 2. $\frac{13}{14}$

Page No. 110

1. 1. $\frac{4}{12}$ 2. $\frac{7-5}{15} = \frac{2}{15}$
 2. 1. $\frac{1}{5}$ 2. $\frac{3}{9}$ 3. $\frac{2}{7}$
 4. $\frac{5}{17}$ 5. $\frac{7}{15}$ 6. $\frac{5}{16}$

Page No. 111

1. $1. \frac{1}{2}$ 2. $\frac{2}{3}$ 3. $\frac{3}{4}$ 4. $\frac{4}{5}$ 5. $\frac{6}{7}$
6. $\frac{8}{9}$ 7. $\frac{5}{6}$ 8. $\frac{9}{10}$ 9. $\frac{1}{3}$ 10. $\frac{4}{7}$
11. $\frac{5}{9}$ 12. $\frac{7}{13}$
2. 1. Friend ate $\frac{1}{3}$ of cake more 2. $\frac{2}{5}$
3. Tom read more by $\frac{1}{6}$ pages 4. elder son

Page No. 112

1. 1. $\frac{7}{11}$ 2. $\frac{4}{7}$ 3. $\frac{7}{12}$ 4. $\frac{2}{14}$

Page No. 114

1. $\frac{6}{9}, \frac{5}{15}, \frac{10}{15}, \frac{7}{8}, \frac{17}{19}, \frac{13}{16}$ 2. $\frac{8}{4}, \frac{13}{5}, \frac{10}{2}, \frac{20}{11}, \frac{42}{7}$
3. $1\frac{2}{4}, 2\frac{3}{4}, 6\frac{1}{3}, 3\frac{1}{3}, 5\frac{1}{2}$ Brain Tuner $2\frac{3}{6}$

Page No. 115

1. 1. $1\frac{1}{3}$ 2. $1\frac{2}{3}$ 3. $1\frac{3}{7}$ 4. $3\frac{1}{4}$ 5. $1\frac{5}{7}$
6. $2\frac{1}{5}$ 7. $1\frac{5}{9}$ 8. $1\frac{9}{10}$ 9. $4\frac{2}{3}$ 10. $3\frac{3}{5}$
11. $3\frac{1}{2}$ 12. $4\frac{7}{8}$
2. 1. $\frac{3}{2}$ 2. $\frac{4}{3}$ 3. $\frac{6}{5}$ 4. $\frac{10}{7}$ 5. $\frac{7}{3}$
6. $\frac{13}{4}$ 7. $\frac{50}{7}$ 8. $\frac{11}{4}$ 9. $\frac{23}{5}$ 10. $\frac{21}{4}$
11. $\frac{53}{10}$ 12. $\frac{43}{4}$

Page No. 116

1. 1. $\frac{1 \times 4}{3} = \frac{4}{3}$ 2. $\frac{2 \times 3}{7} = \frac{6}{7}$
3. $\frac{3 \times 5}{18} = \frac{15}{18}$ 4. $\frac{3 \times 6}{20} = \frac{18}{20}$

Page No. 117

1. 1. $\frac{4}{3}$ 2. $\frac{16}{8}$ 3. $\frac{20}{3}$ 4. $\frac{20}{9}$ 5. $\frac{15}{7}$
6. $\frac{45}{5}$ 7. $\frac{21}{8}$ 8. $\frac{40}{5}$ 9. $\frac{160}{9}$

- | | | |
|------------|--------|---------|
| 2. 1. 20p | 2. 10p | 3. 1p |
| 3. 1. ₹ 40 | 2. ₹ 6 | 3. ₹ 12 |

Page No. 118

- | | |
|--|--|
| 1. $2. \frac{3}{12} \times 3 = \frac{9}{12}$ | 3. $\frac{2}{14} \times 6 = \frac{12}{14}$ |
| 4. $\frac{4}{16} \times 2 = \frac{8}{16}$ | |

Page No. 120 MCQ - VII

- | | | | | |
|--------------------------------|------------------|-------------------|------------------|--------------------|
| 1. $\frac{3}{7} + \frac{2}{7}$ | 2. $\frac{3}{5}$ | 3. $\frac{4}{12}$ | 4. $\frac{4}{9}$ | 5. $\frac{1}{5}$ |
| 6. 3 | 7. $\frac{3}{9}$ | 8. $\frac{1}{5}$ | 9. $\frac{9}{8}$ | 10. $2\frac{4}{7}$ |

UNIT 11

Page No. 123

- | | | | |
|----------------------------|-------------------------------|--------------------------|----------------------------|
| 1. 1. 0.3 | 2. 0.7 | 3. 0.08 | 4. 0.72 |
| 5. 2.9 | 6. 1.25 | | |
| 2. 1. $\frac{4}{10}$; 0.4 | 2. $\frac{8}{10}$; 0.8 | 3. $1\frac{5}{10}$; 1.5 | 4. $\frac{26}{100}$; 0.26 |
| 5. $\frac{44}{100}$; 0.44 | | | |
| 3. 1. zero point five | 2. three point six | | |
| 3. seventy four point two | 4. zero point zero four | | |
| 5. seven point one five | 6. twenty six point zero four | | |
| 4. 1. 0.9 | 2. 6.7 | 3. 89.9 | 4. 0.55 |
| 5. 2.75 | 6. 21.92 | | |

Page No. 124

- | | | | |
|---------------|-----------|-----------|----------|
| 1. 1. .4 | 2. 116.86 | 3. 46.66 | 4. 98.79 |
| 2. 1. 152.0cm | 2. 16.6kg | 3. 354.75 | |

Page No. 125

- | | | | |
|------------|----------|-----------|----------|
| 1. 1. .3 | 2. .23 | 3. 22.2 | 4. 36.43 |
| 2. 1. 1.5m | 2. 15.25 | 3. 211.50 | |

UNIT 12

Page No. 127

- | | | | | |
|-------------|--------|--------|---------|---------|
| 1. 4 | 2. 10 | 3. 20 | 4. 40 | |
| 5. 100 | 6. 200 | 7. 400 | 8. 1000 | 9. 2000 |
| 1, 2, 5, 10 | | | | |

Page No. 129

- | | | | |
|-----------|----------|---------|--------|
| 1. 1. 600 | 2. 1200 | 3. 5234 | 4. 709 |
| 5. 3920 | 6. 14381 | | |

2. 1. ₹ 4.51 2. ₹ 6.03 3. ₹ 6.03 4. ₹ 13
 5. ₹ 74.32 6. ₹ 17.40
3. 1. 3, 4, 1, 1, 1 2. 4, 1, 2, 1, 1
 3. 4, 1, 1, 2, 3

Page No. 130

1. 1. 378.77 2. 4615.50 3. 148.60 4. 4108.50
 2. 1. 294.50 2. 90.25 3. 146.40 4. 80.25

Page No. 131

1. 1. 195 2. 411.75 3. 315.25 4. 847.5
 2. 1. 4.5 2. 8.92 3. 7.23 4. 8.92
 3. 1. 1016 2. 1800 3. 105 4. 29

Page No. 133

1. ₹ 230 2. ₹ 60

Page No. 134 MCQ - VIII

1. 100 2. ₹ 13145 3. $5 \times 95 + 80$ 4. ₹ 240
 5. ₹ 62.16 6. 2530p 7. $108 \div 12$ 8. ₹ 200
 9. ₹ 80 10. 1270

UNIT 13

Page No. 136

1. 1. 1000 2. 100 3. 10 4. 1000 5. 10
 6. 100 7. 10 8. 1000 9. 100000 10. 1000000
 2. 1. cm 2. m 3. km 4. mm

Page No. 137

1. 1. 7135 2. 6025 3. 2600 4. 9250 5. 5300 6. 3505
 2. 1. 597 2. 701 3. 485 4. 936 5. 210 6. 333
 3. 1. 9856m 2. 2082m 3. 7145m 4. 4301m

Page No. 138

1. 1. 3km 250m 2. 6km 145m
 3. 8m 209mm 4. 4m 731mm
 5. 72m 97cm 6. 296m 1dm
 2. 1. 6m 2dm 3cm 2. 8m 2dm 7cm
 3. 7m 4dm 5cm 4. 6km 5hm 4dam 3m
 5. 9km 2hm 5dam 6m 6. 3km 7hm 4dam 2m

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3. 1. 46m 65cm 2. 25m 35cm 3. 9km 12m

Page No. 140

1. 1. 12m 2. 8m 3. 20m 4. 2m

Page No. 142

1. 1. 1000 2. 5400 3. 6350 4. 7000
 5. 7050 6. 10275

2. 1. 5kg 0g 2. 6kg 25g 3. 9kg 0g 4. 8kg 175g
5. 2kg 500g 6. 6kg 727g 7. 9kg 5g 8. 4kg 600g
9. 15kg 475g 10. 18kg 375g

Page No. 143

1. 1. 2574g 2. 9086g 3. 5403g 4. 3015g
2. 1. 658cg 2. 587cg 3. 895cg 4. 215cg
3. 1. 4g 7dg 5cg 2. 7kg 4hg 2 dag 6g 3. 4g 6dg 7cg
4. 3kg 4hg 3 dag 2g 5. 2g 9dg 6cg 6. 9kg 0hg 7dag 5g
7. 5g 5dg 5cg 8. 6kg 5hg 4dag 3g
4. 1. 15kg 900g 2. 57kg 500g 3. 21kg

Page No. 145

1. 1. 1000 2. 2000 3. 10000 4. 12000
5. 5 6. 13

Page No. 146

1. 2. 500ml, 200ml, 50ml
3. 1l, 100ml, 50ml
2. 1. 3250ml 2. 4500ml 3. 6250ml 4. 5750ml
5. 2816ml 6. 15167ml

Page No. 147

3. 1. 6l 250ml 2. 7l 500ml 3. 8l 750ml 4. 8l 3ml
5. 6l 175ml 6. 3l 50ml
4. 1. 3l 2dl 5cl 0ml 2. 7l 7dl 5cl 0ml
3. 5kl 2hl 5dal 0l 4. 6kl 7hl 5dal 0l
5. 1. 255l 7dl 2. 22l 150ml
3. 461l 500ml 4. 5l 600ml

Page No. 150 MCQ - IX

1. milligram 2. 10 3. 24l 4. 75dm
5. 2kg 651g 6. 152cm 7. 14l 8. 60 bottles
9. 228kg 10. 90cm

UNIT 14

Page No. 151

1. 8:10 8:12 8:16
1. Jyoti's; 2 min. 2. Divya's; 4 min.
2. 1. quarter past twelve 2. half past three
3. quarter to eleven 4. seven o'clock

Page No. 152

3. 1. 6:15 2. 25min.; 5:25 3. 15min. to 1; 12:45
4. 10min. to 8; 7:50
4. 1. 12:25 2. 5:45 3. 3:55 4. 7:35
5. 1. 9:15p.m. 2. 11:00a.m. 3. 10:30p.m. 4. 7:45a.m.

Page No. 153

- | | | | | |
|-------------|----------|----------|----------|----------|
| 1. 1. 18:00 | 2. 00:05 | 3. 12:00 | 4. 11:00 | 5. 02:00 |
| 6. 21:45 | 7. 16:15 | 8. 23:14 | 9. 10:20 | |

Page No. 154

- | | | | |
|--------------------|------------|------------|------------|
| 1. 1. 30 min. | 2. 50 min. | 3. 50 min. | 4. 40 min. |
| 2. 1. 1 hr 25 min. | 2. 45 min. | | |

Page No. 155

- | | | |
|------------------|-----------------|--------------|
| 1. 1. 7:55 a.m. | 2. 11:35 a.m. | 3. 8:55 p.m. |
| 4. 2 hrs 20 min. | 5. 1 hr 20 min. | |

Page No. 156

- | | |
|-----------------|-------------|
| 1. 1. app 2 hrs | 2. app 1 hr |
|-----------------|-------------|

Page No. 157

2016	2020	2024	2028	2032
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Page No. 158

- | | |
|---------------|-------------|
| 1. 1. 43 days | 2. 65 days |
| 3. 12 months | 4. 365 days |

Page No. 159

- | | | | |
|----------------|-------------|-------------|-------------|
| 1. 1. 60 years | 2. 60 years | 3. 40 years | 4. 30 years |
|----------------|-------------|-------------|-------------|

Page No. 160

- | | | | | |
|----------------|---------------|---------------|---------------|-------------|
| 1. 1. 214 min. | 2. 315 min. | 3. 385 min. | 4. 512 min. | |
| 5. 465 min. | 6. 130 min. | | | |
| 2. 1. 580 sec. | 2. 377 sec. | 3. 516 sec. | 4. 479 sec. | 5. 202 sec. |
| 6. 130 sec. | 7. 15325 sec. | 8. 26550 sec. | 9. 33750 sec. | |
| 3. 1. 46 | 2. 59 | 3. 33 | 4. 55 | |
| 5. 65 | 6. 82 | | | |

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- | | | |
|------------------------|--------------------|--------------------|
| 1. 1. 2 weeks 6 days | 2. 5 weeks 6 days | |
| 3. 9 weeks 1 day | 4. 5 weeks 4 days | |
| 5. 7 weeks 3 days | | |
| 2. 1. 7 hrs 30 min. | 2. 11 hr 20 min. | |
| 3. 14 hrs 30 min. | 4. 11 hrs 50 min. | |
| 5. 16 hrs 30 min. | | |
| 3. 1. 4 min. 10 sec. | 2. 8 min. | 3. 14 min. 30 sec. |
| 4. 6 min. 15 sec. | 5. 10 min. 40 sec. | |
| 4. 1. 26 days | 2. 62 days | |
| 3. 3 weeks 1 day 2 hrs | 4. 6 hrs 40 min. | |

Page No. 162 Worksheet

1. 40 min.
2. 10 min.
3. 1 hr 5 min.
4. 2 hrs 50 min.
5. 1 hr 30 min.
6. 2 hrs 10 min.
7. 3 hrs
8. 25 min.

Page No. 163 MCQ - X

1. a.m.
2. 9:50
3. 10 a.m.
4. 6:45
5. 2 hrs 20 min.
6. 7:20 a.m.
7. 1 hr 20 min.
8. 30 min. past 12
9. 7:20 p.m.
10. 8 hrs 15 min.

UNIT 15

Page No. 166

1. 1. 5 cm
2. 7.5 cm
3. 6 cm
4. 4 cm

Page No. 167

1. 2. ✓
3. ✓
2. 1. $\angle ABC$
2. $\angle XYZ$
3. $\angle PQR$
4. $\angle UVW$
3. 1. $\angle ABC$ or $\angle CBA$; B; AB and BC
2. $\angle PQR$ or $\angle RQP$; Q; PQ and QR
3. $\angle XYZ$ or $\angle ZYX$; Y; XY and YZ
4. $\angle EFG$ or $\angle GFE$; F; EF and FG
4. 1. $\angle ABD$ or $\angle DBA$; $\angle DBC$ or $\angle CBD$; $\angle ABC$ or $\angle CBA$
2. $\angle XOY$ or $\angle YOX$; $\angle XOZ$ or $\angle ZOX$; $\angle YOZ$ or $\angle ZOY$

Page No. 170

1. 1. ✓
3. ✓
4. ✓

Page No. 171

2. 1. ✓
4. ✓
5. ✓
3. 2. ✓
4. ✓
4. 1. 2; 2; 2; 2; Square
2. 2; 3; 2; 3; Rectangle
3. 3; 3; 3; 3; Square
4. 3.5; 2.5; 3.5; 2.5; Rectangle
5. 1. same point
2. simple closed
3. pentagon
4. opposite sides
5. seven
6. square

Page No. 174

1. 1. centre
2. diameter
3. longest
4. same
5. twice the length

Page No. 175

2. O; OE; CD; AB
3. 1. OA
2. OZ
3. NM
4. EF

4. 1. 2; 4 2. 1.25; 2.5 3. 1; 2 4. 1.5; 3
6. AF; AE; AD; AC; FD; FC; EB; EC; CD

UNIT 16

Page No. 176

Cube	Sphere	Cuboid	Cone	Cylinder
Cube 6, 8, 12		Cuboid 6, 8, 12		
Sphere 1, 0, 0		Cone 2, 1, 1		
Cylinder 3, 0, 2				

Page No. 177

1. 1. prism 2. 5 3. 6 4. 9
2. 3. ✓

Page No. 179

1. 1. Cube 2. Cuboid 3. Cuboid

Page No. 180

1. 2. ✓

UNIT 17

Page No. 181

1. $3 + 2 + 2 + 1 + 3 = 11\text{km}$ 2. $4 + 4 + 4 + 4 = 16$ 3. $3 + 3 + 4 = 10$

Page No. 182

4. 1. 14cm 2. 12cm 3. 12 cm
5. 1. 14cm 2. 15cm 3. 198cm 4. 322m 5. 134m 6. 20km
6. Field B 7. 6km

Page No. 183

1. 1. 9 2. 7 3. 8

Page No. 184

1. 1. 10sq.cm. 2. 12sq.cm. 3. 18sq.cm.
2. 1. 9sq.cm. 2. 10sq.cm. 3. 11sq.cm.

UNIT 18

Page No. 185

1. 1. 24 2. 13 3. 108 4. 592 5. 417

Page No. 186

2. 1. 50 2. 95 3. 70 4. 65 5. 60 6. 340 7. Hindi 8. English

Page No. 187

3. 1. Mango 2. Orange 3. 4 4. 5

Page No. 188

1. 1. cat 2. 6,4,11,7 3. 5 4. 2 5. 10

Page No. 189

2. 1. 2002 2. 450 3. 300 4. 2005 and 2006 5. 2007 and 800
3. 1. cartoon 2. 2 3. films

Page No. 190 Model Test Paper

1. 1. Ones, Thousands, Lakhs, Crores
2. Ones, Thousands, Millions 3. $\frac{1}{2}$ 4. tenths
2. $9430 - 3049 = 6381$ 3. $48298; 70000 - 21000 = 49000$
4. $368; 196 + 172 = 368$ 5. 3032
6. 1. 2,3,4,6,9,12,18 2. 3,5,9,15 3. 2,13,26
7. 1. 894.50 2. 765.05 3. 340.56
8. 1. 77; odd 2. 544; even 9. 315, 477, 801, 2169, 8235
10. 1. 247104 2. 1154979
11. 1. V 2. IX 3. XVIII 4. XXI 5. XXIX
6. XXXVI 7. XLIII 8. L 9. C 10. D
12. 1. 312, 15 2. 1378, 15 13. 113 days 14. 20397
15. 15 sq.cm. 16. XYZ or ZYX; Y; XY and YZ
17. 9225m 18. ₹ 500
19. 1. 40 2. Friday 3. Monday and Thursday 4. 340
20. 1. 750days 2. 4kg 5g 3. ₹ 2911 4. Pat ate more by $\frac{2}{3}$