



Prime Time

Answer Key

WORKSHEET-1

1. (d) 2. (c) 3. (b) 4. (b) 5. (a)
6. $13 + 31, 3 + 41$
7. 121, 123, 125, 127, 129, 131, 133, 135, 137, 139
8. 13, 39, 65, 91, 117, 143
9. 42, 44, 45, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58
10. 83, 89, 97
11. $13915 = 5 \times 11 \times 11 \times 23$
12. $1728 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3$
13. 17, 71, 35, 53
14. 357, 375, 537, 573, 735, 753
- (a) all (b) two
15. Yes, 826256 is divisible by 2, 4 and 8

WORKSHEET-2

1. (a) 2. (d) 3. (a) 4. (d) 5. (b)
6. 81, 83, 85, 87 7. 6 and 14
8. 1, 2, 3, 6, 9 and 18
9. (a) $144 = 71 + 73$ (b) $18 = 7 + 11$
10. 1
11. $10000 = 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5 \times 5$
12. $2310 = 2 \times 3 \times 5 \times 7 \times 11$
13. $3045 = 3 \times 5 \times 7 \times 29$
14. $222222 = 2 \times 3 \times 7 \times 11 \times 13 \times 37$
15. Yes, 12345678 is divisible by 2, 3 and 9 but not divisibel by 5.

Case Study Based Questions

1. (i) d (ii) b (iii) c (iv) d
2. (i) b (ii) c (iii) a (iv) d

Assertion & Reason

1. C 2. A 3. A

