



5

Prime Time

Answer Key

WORKSHEET-1

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

WORKSHEET-2

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

Case Study Based Questions

- (i) d (ii) b (iii) c (iv) d
- (i) b (ii) c (iii) a (iv) d

Assertion & Reason

- C
 - A
 - A
- 