

Board - ICSE

Class - 6th

Topic - Prime & Composite Numbers

Section A – MCQs (1 mark each)

- Q1. Which number has exactly three distinct divisors?
(A) 4 (B) 6 (C) 9 (D) 8
- Q2. How many primes lie between 60 and 80?
(A) 5 (B) 6 (C) 7 (D) 8
- Q3. The smallest odd composite number is:
(A) 9 (B) 15 (C) 21 (D) 25
- Q4. Which is a twin-prime pair?
(A) 41 & 43 (B) 43 & 45 (C) 47 & 49 (D) 50 & 52
- Q5. Which even composite has exactly 6 divisors?
(A) 12 (B) 14 (C) 18 (D) 20

Section B – Short Answer (2 marks each)

- Q6. Prime-factorise 180.
- Q7. List all odd composite numbers less than 60.
- Q8. How many primes are there from 10 to 70?

Section C – Shorter Answer (3 marks each)

- Q9. Compute the sum of all twin-primes below 100.
- Q10. Find the smallest 3-digit prime whose digits are prime.

Section D – Long Answer (4 marks each)

- Q11. What is the largest gap between consecutive primes up to 100? Name the primes.
- Q12. Express 150 as a sum of two twin-prime pairs.