

Board –ICSE	Class – 6 th	Topic – Prime and Composite Numbers
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Q1. Identify if 81 is a Prime or Composite Number

Sol. 81 can be divided by 1,3,9,27, and 81 . Since it has more than two factors, 81 is a composite number.

Q2. Is 127 a Prime or Composite Number?

Sol. 127 is not divisible by 2,3,5,7,11, or 13 . It has only two factors: 1 and 127. Therefore, 127 is a prime number.

Q3. Which of the following is a prime number: 263,361,323,324 ?

Sol. 263 has only two factors: 1 and 263. So, 263 is a prime number.

Q4. Find if 23, 51, 37, 26 are Prime Numbers

Sol. 23 and 37 have only two factors each (1 and itself), so they are prime numbers.

51 and 26 have more than two factors, so they are composite numbers.

Q5. Write three pairs of prime numbers less than 20 whose sum is a multiple of 5.

Sol. $2 + 3 = 5$

$3 + 7 = 10$

$7 + 13 = 20$

All pairs are sums of prime numbers and are multiples of 5 .

Q6. Find seven consecutive composite numbers between 1 and 100.

Sol. 90,91,92,93,94,95,96 are all composite numbers.

Q7. Express 105 as a product of prime factors

Sol. $105 = 3 \times 5 \times 7$. So, the prime factorization of 105 is $3 \times 5 \times 7$.

Q8. Which of the following numbers is the product of exactly three distinct prime numbers: 45,60 , 91, 105, 330?

Sol. $105 = 3 \times 5 \times 7$ (three distinct primes).

So, 105 is the correct answer.