Playing with Numbers Ex 2.3 Q1

Answer :

Those numbers with only two factors, i.e., 1 and the number itself, are known as prime numbers.

Examples: 2, 3, 5, 7, 11 and 13

The prime numbers between 1 and 30 are 2, 3, 5, 7, 11, 13, 17, 19, 23 and 29.

Playing with Numbers Ex 2.3 Q2

Answer :

(i) The prime numbers between 10 and 50 are 11, 13, 17, 19, 23, 29, 31, 37, 41, 43 and 47.
(ii) The prime numbers between 70 and 90 are 71, 73, 79, 83 and 89.
(iii) The prime numbers between 40 and 85 are 41, 43, 47, 53, 59, 61, 67, 71, 73, 79 and 83.
(iv) The prime numbers between 60 and 100 are 61, 67, 71, 73, 79, 83, 89 and 97.

Playing with Numbers Ex 2.3 Q3

Answer :

The number 2 is the smallest prime number.

It is an even prime number. Except 2, all the other even numbers are composite numbers.

Playing with Numbers Ex 2.3 Q4

Answer :

The smallest odd prime number is 3.

No, every odd number is not a prime number. For example, 9 is an odd number but it is not a prime number because its three factors are 1, 3 and 9.

Playing with Numbers Ex 2.3 Q5

Answer :

A number which has more than two factors is called a composite number.
For example, the numbers 4, 6, 8, 9, 10 and 15 are composite numbers.

Yes, a composite number can be an odd number. The smallest odd composite number is 9.

Playing with Numbers Ex 2.3 Q6

Answer :

Twin primes: Two prime numbers are said to be twin primes if there is only one composite number between them.
For example, (3, 5) and (5, 7) are twin primes.

Twin primes between 50 and 100 are (59, 61) and (71, 73).

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