Playing with Numbers Ex 2.3 Q7

Answer :

Two numbers are said to be co-primes if they do not have any common factor other than 1.
For example, (2, 3), (3, 4), (4, 5), (5, 7), and (13, 17) are co-primes.

Two co-prime numbers need not be both prime numbers.
e.g., (3, 4), (6, 7) and (4, 13).

Playing with Numbers Ex 2.3 Q8

Answer :

(i) Two prime numbers are always co-primes to each other.
Example: 7 and 11 are co-primes to each other.

(ii) One prime and one composite number are not always co-prime.
Example: 3 and 21 are not co-primes to each other.

(iii) Two composite numbers are not always co-primes to each other.
Example: 4 and 6 are are not co-primes to each other.

Playing with Numbers Ex 2.3 Q9

Answer :

We can write the given numbers as the sums of two or more primes as follows:
(i) 13 = 11 + 2
(ii) 130 = 59 + 71
(iii) 180 = 139 + 17 + 11 + 13 or 79 + 101

Playing with Numbers Ex 2.3 Q10

Answer :

We can express the given numbers as the sums of two odd primes as follows:

(i) 36 = 7 + 29 or 17 + 19
(ii) 42 = 5 + 37 or 13 + 29
(iii) 84 = 17 + 67 or 23 + 61

Playing with Numbers Ex 2.3 Q11

Answer :

We can express the given numbers as the sums of three odd prime numbers as follows:

(i) 31 = 5 + 7 + 19 or 31 = 11 + 13 + 7
(ii) 35 = 5 + 7 + 23 or 35 = 17 + 13 + 5
(iii) 49 = 3 + 5 + 41 or 49 = 7 + 11 + 31

Playing with Numbers Ex 2.3 Q12

Answer :

We can express the given numbers as the sums of twin primes which are as follows:

(i) 36 = 17 + 19
(ii) 84 = 41 + 43
(iii) 120 = 59 + 61

********** END **********