

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:

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

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