Co-prime Numbers

A. Choose the correct answer:

1. Which of the following pairs is co-prime?

a) 6 and 9 b) 4 and 8

c) 5 and 9 d) 10 and 20

2. Co-prime numbers have

a) Only 1 as a common factor b) More than 2 common factors

c) No common factors d) All prime factors

3. Which of the following is not a co-prime pair?

a) 7 and 11 b) 10 and 15

c) 4 and 9 d) 3 and 8

4. 1 is co-prime with

a) only even numbers b) only odd numbers

c) every number d) only prime numbers

5. Consecutive numbers like 14 and 15 are always

a) composite b) co-prime

c) prime d) factors

B. Write the Missing Terms to Complete the Sentences:

1. Co-prime numbers have only ___ as their common factor.
2. 5 and 9 are co-prime because they have no common factor except ___.
3. 1 is co-prime with ___ number.
4. ___ and 17 are co-prime numbers.
5. The pair (11, 13) is co-prime because both are ___.

C. Mark each sentence with a True (✔) or False (✗):

1. 1 is co-prime with every number _____
2. 2 and 3 are co-prime numbers _____
3. Co-prime numbers must be prime numbers _____

4. 7 and 14 are co-prime _____

5. All consecutive numbers are co-prime _____

D. Figure out the answers to these questions:

1. Write any three co-prime pairs below 20
2. Check whether 8 and 15 are co-prime or not
3. Are 10 and 25 co-prime? Show their factors
4. Select the co-prime pairs from the list: (6, 11), (8, 12), (5, 9), (14, 21)
5. Write the definition of co-prime numbers and give two examples

E. Challenge yourself with these questions:

1. Find whether 16 and 21 are co-prime using their factors.
2. Write any five pairs of co-prime numbers.
3. Are 33 and 44 co-prime? Why or why not?
4. List the co-prime numbers between 1 and 10.
5. Write any two co-prime pairs where one number is even and the other is odd.