Prime and Composite Numbers

A. Choose the Correct Answer:

1. Which of the following numbers is a prime number?

    a) 15   b) 23

    c) 27   d) 49

2. How many prime numbers are there between 1 and 20?

    a) 6   b) 7

    c) 8   d) 9

3. A composite number has:

    a) Only one factor   b) Exactly two factors

    c) More than two factors   d) No factors

4. Which number is not a composite number?

    a) 9   b) 13

    c) 15   d) 21

5. The smallest even prime number is:

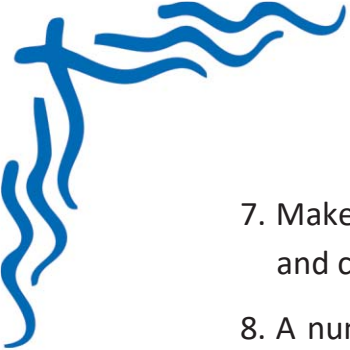   a) 1   b) 2

    c) 3   d) 0

B. Write the Missing Terms to Complete the Sentences:

1. A number that has only two factors is called a _____ number.

2. _____ is the only even prime number.

3. _____ is neither prime nor composite.

4. The number 51 is a _____ number.

5. A composite number has more than _____ factors.

C. Figure out the answers to these questions:

1. List all prime numbers between 30 and 50.

2. Find the sum of the first five prime numbers.

3. **Circle all the composite numbers in the list:** 11, 14, 17, 21, 23, 27, 31

4. **Identify the type (prime/composite) for each number:** 29, 35, 1, 2, 0

5. Write any four composite numbers that have more than 4 factors.

6. Draw a Venn diagram showing sets of prime numbers and even numbers from 1 to 20.

7. Make a table of numbers from 1 to 20 and mark prime numbers with a star (*) and composite numbers with a square (□).

8. A number has exactly three factors: 1, 3, and itself. Is it prime or composite? Justify.

D. Mark each sentence with a True (✓) or False (✗):

1. All prime numbers are odd.

2. 0 is a composite number.

3. 2 is the only even prime number.

4. Every number greater than 1 is either prime or composite.

5. 19 is a composite number.

E. Challenge yourself with these questions:

1. Write a short note on the difference between prime and composite numbers.

2. Create a chart displaying prime numbers up to 50.

3. Find a pair of twin prime numbers between 40 and 60.

4. Make your own puzzle using 6 prime numbers under 30.

5. Choose any 5 composite numbers and find all their factors.