

## Prime and Composite Numbers - I

1. Define prime and composite numbers. Give 2 examples of each.

**Solution:**

**Prime Number:**

**Composite Number:**

2. Write arrays and factors for the numbers given in the table below. Determine whether the number is prime or composite.

Number	Arrays	Factors	Prime or Composite?
2	$2 \times 1, 1 \times 2$	1, 2	Prime
3			
5			
8			
9			
14			
17			
20			
29			

3. True or False?

- Prime number can be even or odd.
- 1 is a prime number.
- If a prime number is multiplied with another prime number, the result is a prime number.
- All prime numbers greater than 10 are odd numbers.
- Composite numbers can have 2 prime factors.

**Solution:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

4. Emma has 42 square shaped tiles. She wants to make rectangles that are unique in size. How many combinations of rectangles can she make using all the 42 tiles?

**Solution:**

5. Addition of both the digits of a 2-digit prime number is also a prime number. Multiplication of both the digits of the same number is neither prime nor composite. What number is it?

**Solution:**

6. Which number is a prime number?

- |       |        |
|-------|--------|
| A. 26 | C. 97  |
| B. 77 | D. 121 |

**Solution:**