

Name: _____

Prime and Composite

Factors are the numbers you multiply to get another number.

$$2 \times 3 = 6 \quad 2 \text{ and } 3 \text{ are factors of } 6.$$

$$1 \times 6 = 6 \quad 1 \text{ and } 6 \text{ are also factors of } 6.$$

What are the factors of 6? 1, 2, 3, and 6

Prime numbers are the numbers that have only two factors.

$$1 \times 19 = 19 \quad 1 \text{ and } 19 \text{ are the only factors of } 19.$$

Because 19 has only two factors, it is a prime number.

Composite numbers are the numbers that have more than two factors.

$$1 \times 10 = 10 \quad 1 \text{ and } 10 \text{ are factors of } 10.$$

$$2 \times 5 = 10 \quad 2 \text{ and } 5 \text{ are also factors of } 10.$$

What are the factors of 10? 1, 2, 5, and 10

Because 10 has more than two factors, it is a composite number.



- a. List all of the factors for the number **4**. _____
Is **4** a prime or composite number? _____
- b. List all of the factors for the number **11**. _____
Is **11** a prime or composite number? _____
- c. List all of the factors for the number **16**. _____
Is **16** a prime or composite number? _____
- d. List all of the factors for the number **23**. _____
Is **23** a prime or composite number? _____