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Name \_\_\_\_\_

## Lesson 5-3

### Prime and Composite Numbers

A number must be divisible by all of its factors.  
The number 18 has exactly six factors: 1, 2, 3, 6, 9, and 18. What are the factors of 18?



To name the factors of 18, we can use multiplication facts.

$$\underline{\quad} \times 18 = 18$$

$$\underline{\quad} \times 9 = 18$$

$$\underline{\quad} \times 6 = 18$$

The factors of 18 are

\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

The number 18 has \_\_\_\_\_ factors.

What are the factors of 5? The factors of 5 are \_\_\_\_\_ and \_\_\_\_\_. The number 5 is a prime number. A **prime number** has exactly two different factors: the number 1 and itself.

The number 1 is not prime because it has only one factor.

A number greater than 1 that is not prime is a **composite number**. Since 18 has six factors, 18 is a \_\_\_\_\_ number.



### Getting Started

Write all factors for each number.

1. 6

2. 12

3. 20

4. 23

5. 35

Identify each number as *prime* or *composite*.

6. 7

7. 9

8. 32

9. 47

10. 154