Name:
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# **Prime and Composite**

 ${f Factors}$  are the numbers you multiply to get another number.

 $2 \times 3 = 6$  2 and 3 are factors of 6.

 $1 \times 6 = 6$  1 and 6 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.

 $1 \times 19 = 19$  1 and 19 are the only factors of 19.

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



 $1 \times 10 = 10$  1 and 10 are factors of 10.

 $2 \times 5 = 10$  2 and 5 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.

<b>a.</b> List all of the factors for the number <b>4</b> .
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Is **4** a prime or composite number?

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?

### **ANSWER KEY**

## **Prime and Composite**

Factors are the numbers you multiply to get another number.

 $2 \times 3 = 6$  2 and 3 are factors of 6.

 $1 \times 6 = 6$  1 and 6 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.

 $1 \times 19 = 19$  1 and 19 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.

 $1 \times 10 = 10$  1 and 10 are factors of 10.

 $2 \times 5 = 10$  2 and 5 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. 1, 2, and 4

Is **4** a prime or composite number? <u>composite</u>

**b.** List all of the factors for the number 11. 1 and 11

Is 11 a prime or composite number? <a href="prime">prime</a>

c. List all of the factors for the number 16. 1, 2, 4, 8, and 16

Is 16 a prime or composite number? <u>composite</u>

d. List all of the factors for the number 23. 1 and 23

Is **23** a prime or composite number? <u>prime</u>