Name: $\qquad$

## Prime and Composite

Factors are the numbers you multiply to get another number.
$2 \times 3=6 \quad 2$ and 3 are factors of 6.
$1 \times 6=6 \quad 1$ 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.
$1 \times 19=19 \quad 1$ 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.
$1 \times 10=10 \quad 1$ and 10 are factors of 10 .
$2 \times 5=10 \quad 2$ and 5 are also factors of 10 .
What are the factors of 10 ? $\quad 1,2,5$ 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 $\mathbf{1 1 .}$

Is 11 a prime or composite number? $\qquad$
c. List all of the factors for the number 16.

Is 16 a prime or composite number?
$\qquad$
$\qquad$
d. List all of the factors for the number 23.

Is $\mathbf{2 3}$ a prime or composite number?
$\qquad$
$\qquad$

## ANSWER KEY

## Prime and Composite

Factors are the numbers you multiply to get another number.
$2 \times 3=6 \quad 2$ and 3 are factors of 6 .
$1 \times 6=6 \quad 1$ 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.
$1 \times 19=19 \quad 1$ 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.
$1 \times 10=10 \quad 1$ and 10 are factors of 10 .
$2 \times 5=10 \quad 2$ 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 $4 . \quad 1,2$, and 4

Is 4 a prime or composite number? composite
b. List all of the factors for the number 11.1 and 11

Is 11 a prime or composite number?
prime
c. List all of the factors for the number $\mathbf{1 6}$.

Is 16 a prime or composite number?
$1,2,4,8$, and 16
composite
d. List all of the factors for the number 23.

1 and 23
Is 23 a prime or composite number?
prime

