

## Prime and Composite Numbers

A prime number has exactly two factors, 1 and the number itself.

A composite number has more than two factors.

Make arrays to find the factors.

### Examples:

Write prime or composite for each number.

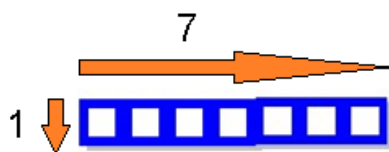
1) 7

List the factors.

The factors of 7 are 1 and 7.

Make all the arrays you can with 7 square tiles.

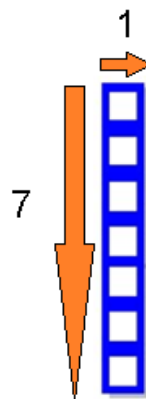
$1 \times 7$



1 row of 7 tiles

$7 \times 1$

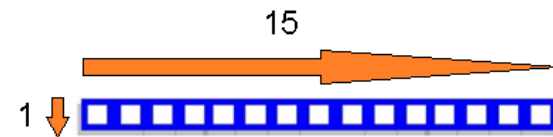
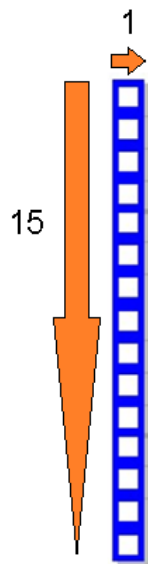
7 rows of 1 tile each



2 factors, 1 and 7, it is prime.

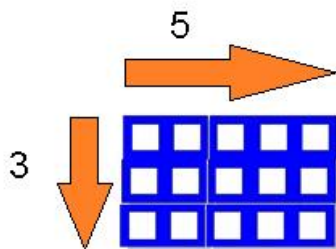
2) 15

Make all the arrays you can with 15 square tiles

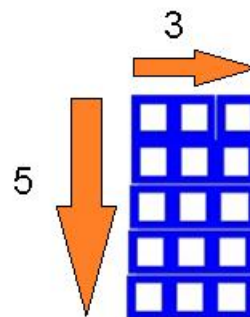


$1 \times 15$   
1 row of 15 tile

$15 \times 1$   
15 rows of 1 tile each



$3 \times 5$   
3 rows of 5 tiles



$5 \times 3$   
5 rows of 3 tiles

List the factors.

The factors of 15 are 1, 3, 5, and 15.

Since 15 only has more than 2 factors, 1, 3, 5, and 15, it is composite.

Examples:

A- Write *prime* or *composite* for each number.

1) 26

Factors of 26 are: 1,2,13,26

26 has more than two factors

26 is a composite number

2) 13

Factors of 13 are: 1,13

13 has two factors only

13 is a prime number

3) 35

Factors of 35 are: 1,5,7,35

35 has more than two factors

35 is a composite number