Arrays

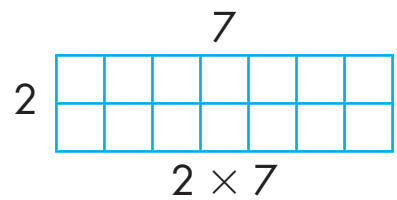Here is an array of chairs.

There are 2 rows of chairs.
There are 7 chairs in each row.
There are 14 chairs in all.
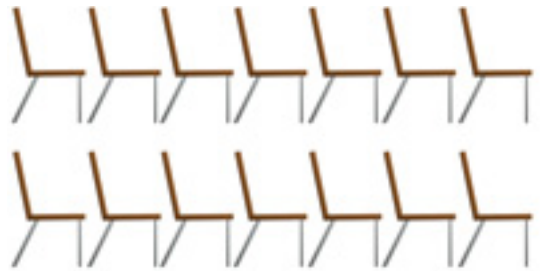
$$2 \times 7 = 14$$
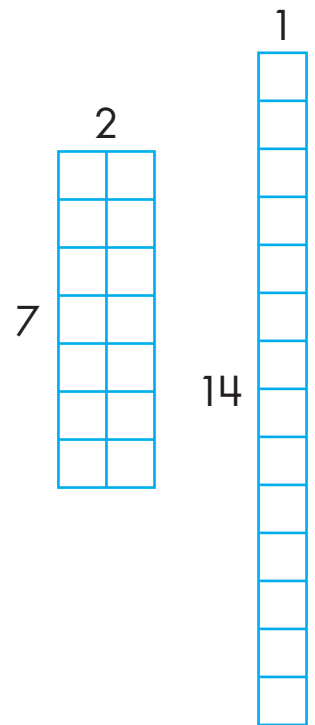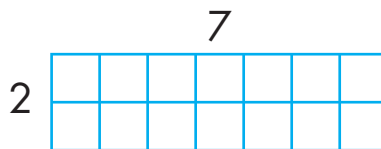
The arrangement of chairs can be represented as a rectangular array.

The dimensions of this array are 2×7. Say this as "2 by 7."

7
2
2×7

These arrays represent all of the ways to arrange 14 chairs.

14
1

Dimensions: 1 by 14
2 by 7
7 by 2
14 by 1

7
2

7
2

1
14

The numbers 1, 2, 7, and 14 are factors of 14.

Find all the arrays for 16.