

THE ARRANGING CHAIRS PUZZLE

What You Will Need

30 small objects to use as chairs (for example, cubes, blocks, tiles, chips, pennies, buttons)

What to Do

1. Choose a number between 4 and 30. (Later you may use larger numbers.)
2. Figure out all the ways you can arrange that many chairs. Each row must have the same number of chairs. Your arrangements will make rectangles of different sizes.
3. Write down the dimensions of each rectangle you make.
4. Choose another number and start again. Be sure to make a new list of dimensions for each new number.

Example

All the ways to arrange 12 chairs

Dimensions

1 by 12
12 by 1
2 by 6
6 by 2
3 by 4
4 by 3

