

Arranging Chairs (page 1 of 2)

You need

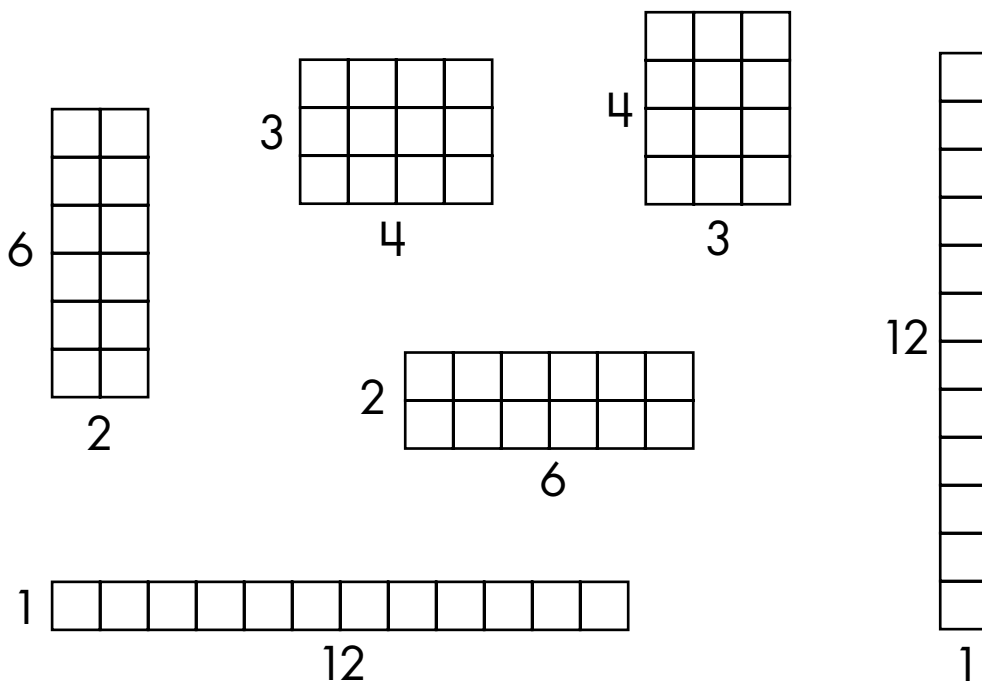
- 30 cubes
- 4 sheets of half-inch grid paper
- Scissors
- Glue stick
- 2 sheets of unlined colored paper

Work with a partner.

1. Write the first number you are working on. _____
2. Figure out all the ways you can arrange that many chairs. Each row of each arrangement must have the same number of chairs. Show your arrangements as rectangles.
3. Draw each rectangle on the grid paper.
4. Cut out each rectangle and glue it onto the colored paper. Label each rectangle with its dimensions.
5. Make a list of the dimensions you found for your number. Your paper should look like the one on M16.
6. Write the second number you are working on and follow steps 2–5. _____

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Ways to Arrange 12 Chairs



Different Ways to Make 12

$$12 = 1 \times 12$$

$$12 = 12 \times 1$$

$$12 = 2 \times 6$$

$$12 = 6 \times 2$$

$$12 = 3 \times 4$$

$$12 = 4 \times 3$$