

In 10–12, use the table.

- **10. Higher Order Thinking** Complete the table. Show some different ways that a rectangular prism can have a volume of 12 cubic units.
- **11. Look for Relationships** Look across each row of the table. What pattern do you see?

Sample answer: If you multiply the values in any row, the product is 12.

- 12. Use the table to help. How many unit cubes are needed to make a model of a rectangular prism that is 4 units long, 3 units wide, and 2 units tall?
 24 unit cubes
- Number Sense A building is 509 feet tall. Each floor is about 14 feet tall. About how many floors does the building have?
 Sample answer: about 36 floors



- **15.** Both of the models shown are made up of 1-inch cubes. Which statement about these models is true?
 - A Model Q and Model R have the same volume.
 - B Model R has a greater volume than Model Q.
 - © The volume of Model Q is 7 cubic inches greater than the volume of Model R.
 - The volume of Model Q and Model R combined is 54 cubic inches.

Number of Cubes Long	Number of Cubes Wide	Number of Cubes Tall
1	1	12
2	2	3
2	3	2
2	6	1
3	1	4
3	2	2
3	4	1
4	1	3
6	2	1

14. Velma and Bruce combined their model buildings to make one building. How can they change each building part to make the parts equal in volume? Explain your reasoning.



Sample answer: Take away 2 cubes from the part with 20 cubes and put them on the part with 16 cubes.

