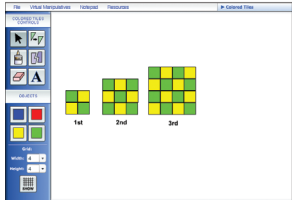


# MATH ACTIVITY 1.3

## Extending Tile Patterns

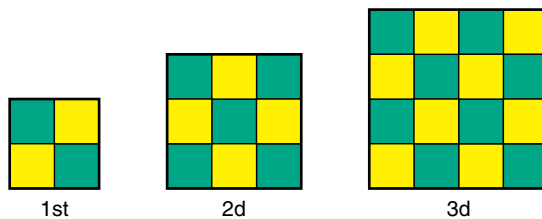
### Virtual Manipulatives



www.mhhe.com/bennett-nelson

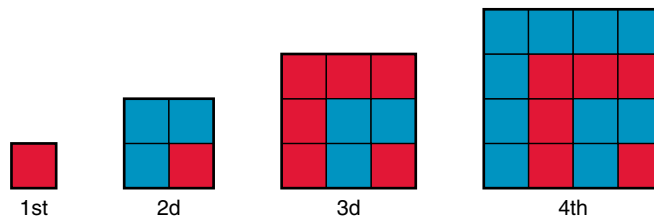
Materials: Colored tiles in the Manipulative Kit or Virtual Manipulatives.

1. Here are the first three figures in a sequence. Find a pattern and build the fourth figure.



- \*a. For each of the first five figures, determine how many tiles there are of each color.
- b. Find a pattern and determine the number of tiles of each color for the 10th figure.
- c. What is the total number of tiles for the 10th figure?
- d. Write a description of the 25th figure so that someone reading it could build the figure. Include in your description the number of tiles with each of the different colors and the total number of tiles in the figure.
2. Extend each of the following sequences to the fifth figure, and record the numbers of different-colored tiles in each figure. Find a pattern that enables you to determine the numbers of different-colored tiles in the 10th and 25th figures of each sequence. Describe your reasoning.

\*a.



b.

