Towering Numbers

Adapted from Fostering Algebraic Thinking, by Mark Driscoll
Towering Numbers

1. There are seven rows in the tower on the first page. How many bricks are in the seventh row?

2. Suppose you wanted to build a tower with 25 rows using the same design. Describe how you could figure out how many bricks you would need for the twenty-fifth (longest) row.

3. A very large tower was built using the same design. The longest row had 299 bricks in it. How many rows of bricks did the tower have?

4. If somebody told you how many rows of bricks were in a tower, how could you figure out the number of bricks in the longest row?

5. If somebody told you how many bricks were in the longest row of a tower, how could figure out how many rows there were?

Adapted from Fostering Algebraic Thinking, by Mark Driscoll