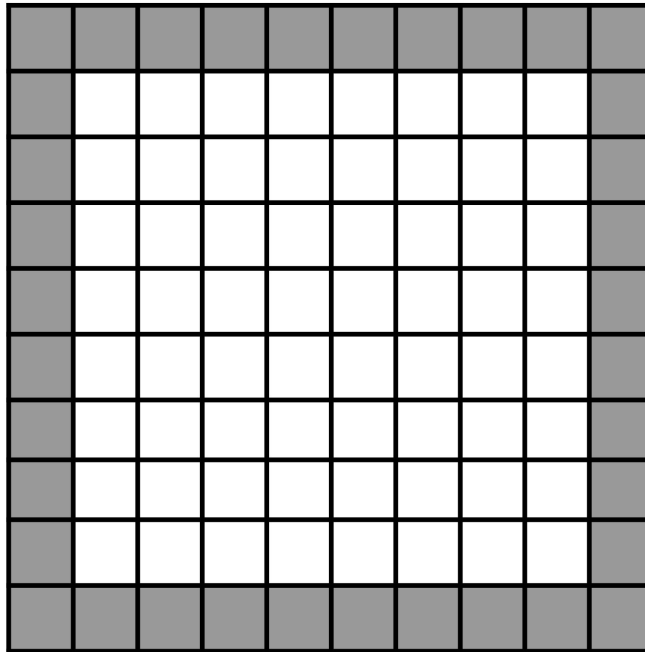


From the Ceiling to Algebra

Adapted from a Marilyn Burns Task



How many shaded squares are in this 10-by-10 grid?

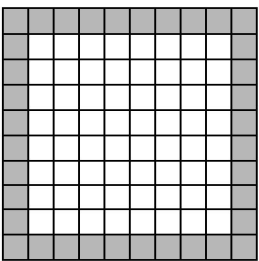
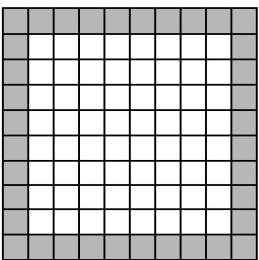
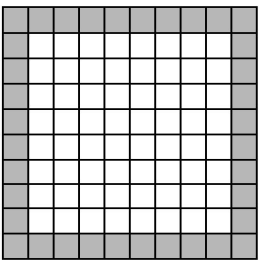
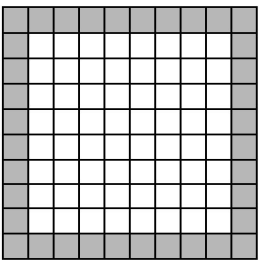
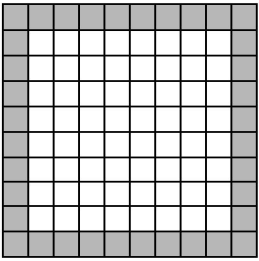
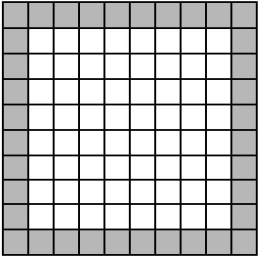
Do not count them one by one.

Explain how you see/grouped the shaded squares.

For each equation, how do you think the students grouped the squares?

Numerical Equation

Algebraic Equation ($h = \text{height}$)



Will the algebraic equations work for any size square? How do you know?