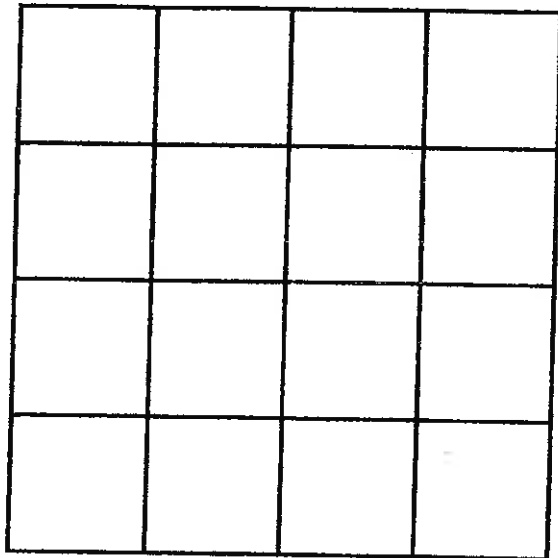


# POW #3

## SQUARES

How many squares in a 4 by 4 grid? (Hint: The squares come in different sizes.) *The answer is not 16.*



### POW GUIDELINES

Number and label the 4 parts of your write-up.

**1. Complete heading**

**2. Problem Statement.**

In your own words, tell what you are asked to do—include the essential details and the question.

**3. Process.**

Show all your work. Refer to the problem to give reasons for each step. Write enough (several paragraphs) to show that you really tried to solve the problem.

**4. Solution.**

Write your answer in a sentence which refers to the problem. Explain why your answer makes sense. Show a check if you can.

**5. Evaluation.**

Write complete sentences to answer these questions:

- How do you feel about this POW? Why?
- Did anyone help you?
- Does this remind you of any other problem?
- Tell one thing you learned.
- What rubric score should you get? Why?

**EXTENSIONS.** (Extensions are optional) If the POW is easy for you, try the extensions. Write a paragraph for each—the extensions do not require 4-part write-ups.

**FIRST EXTENSION:** Investigate the number of squares in smaller grids (1 x 1, 2 x 2 and 3 x 3) and describe the pattern.

**SECOND EXTENSION:** How many squares in a 5 by 5 grid?