

MATHEMATICAL PRACTICE #3:

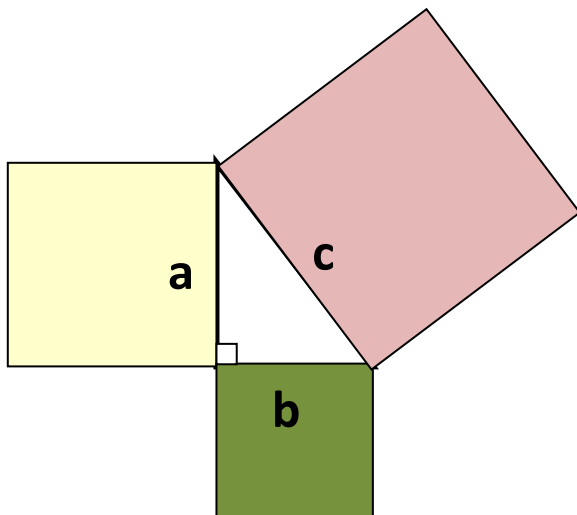
Construct viable arguments & critique the reasoning of others

I can make assumptions based on my prior knowledge to create an argument for a problem by:

- Making *conjectures*
- Building a *logical progression* of statements
- Analyzing situations by *breaking the problem into parts*
- Using *counterexamples*
- Making *logical arguments*
- Determining if a solution is *logical*

I can critique the mathematical thinking of others by:

- *Responding* to arguments
- *Comparing* two logical arguments
- *Recognizing* flawed logic
- *Listening*
- *Asking* questions for clarification



PROOF

Can I prove I am correct?

JUSTIFY

my conclusions:

- Consider the context of the problem
- Use examples & non-examples
- Use objects, drawings, diagrams, and actions.

UNDERSTANDING

Can I understand the explanation of others' solutions?