

# Designing questions for authentic assessment



Workshop with Master Teachers  
Teaching Excellence Program  
Melbourne, Australia, 22 February 2023



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A group of people are in a classroom or workshop setting. In the foreground, a woman with dark hair and a white cardigan is gesturing with her hands while talking to a man whose back is to the camera. To her left, another woman with blonde hair and a striped shirt is looking towards the camera. Several laptops are open on the tables. In the background, other people are working or standing. The word "program" is overlaid in the center of the image.

program

**1** context



program

1 context

2 classify




program

1 context

2 classify

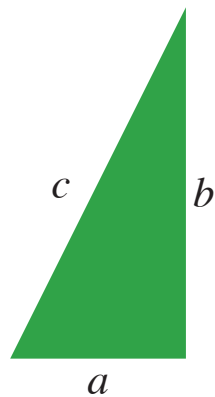
3 improve

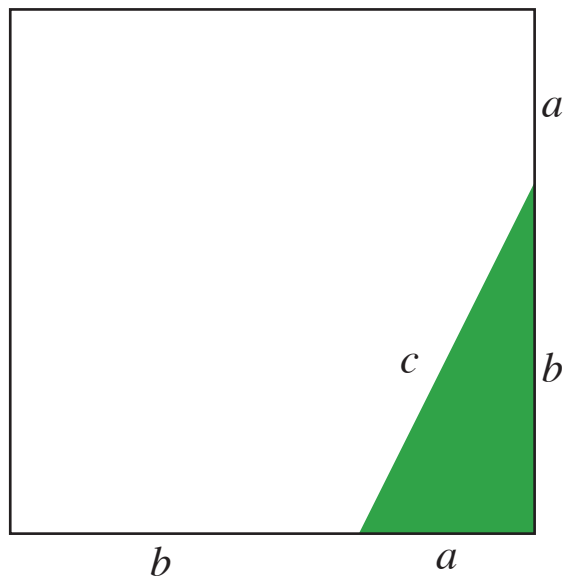




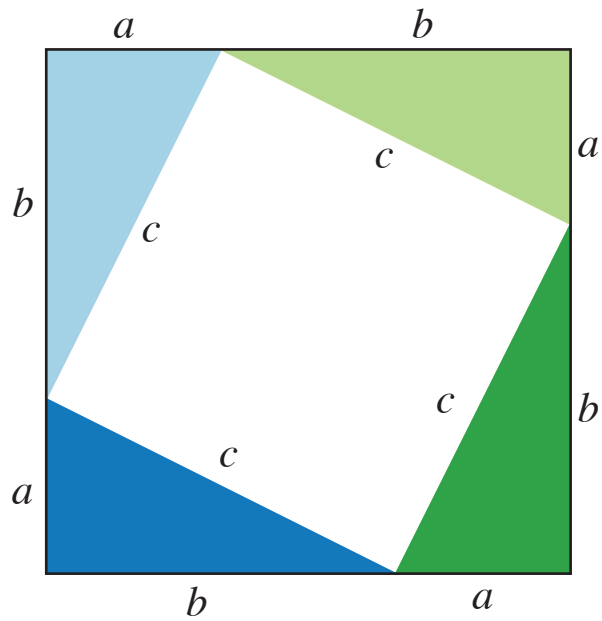
# Pythagorean theorem

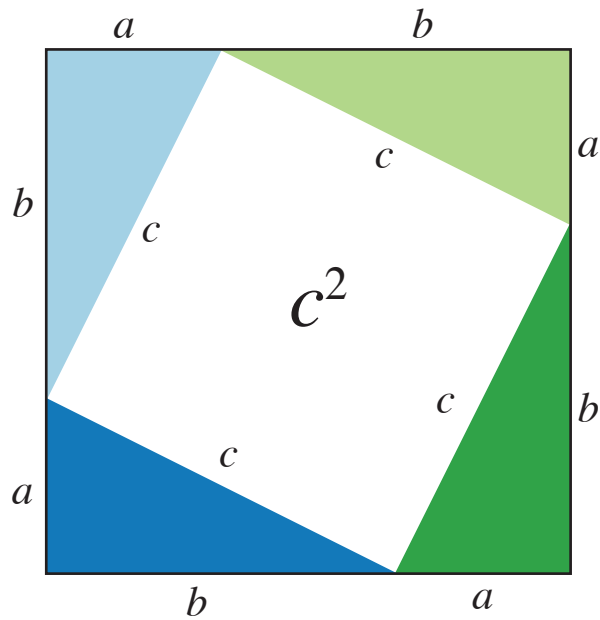
$$a^2 + b^2 = c^2$$

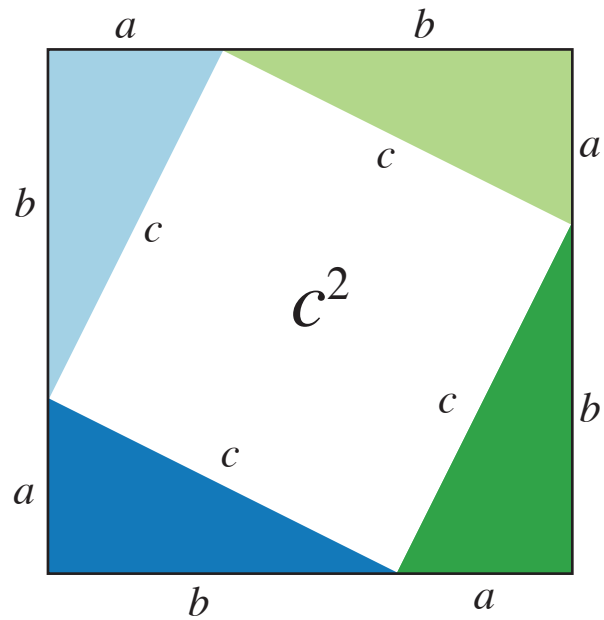
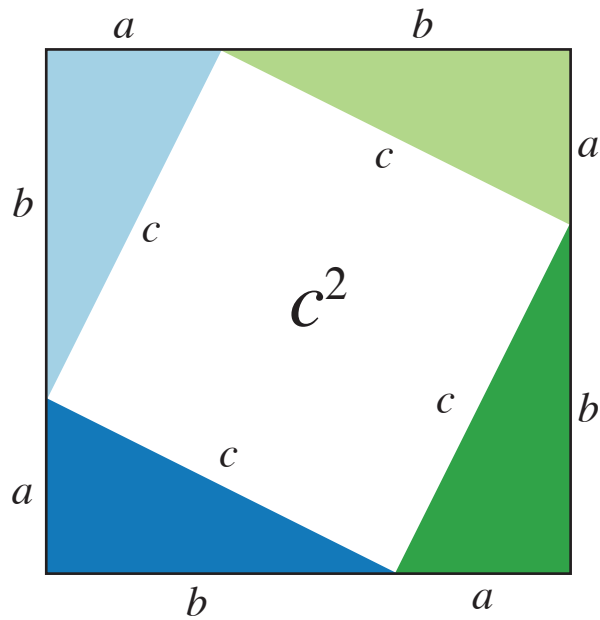




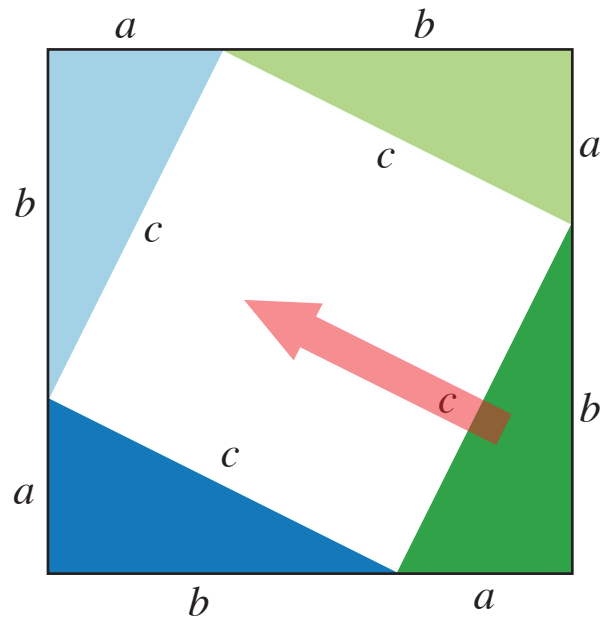
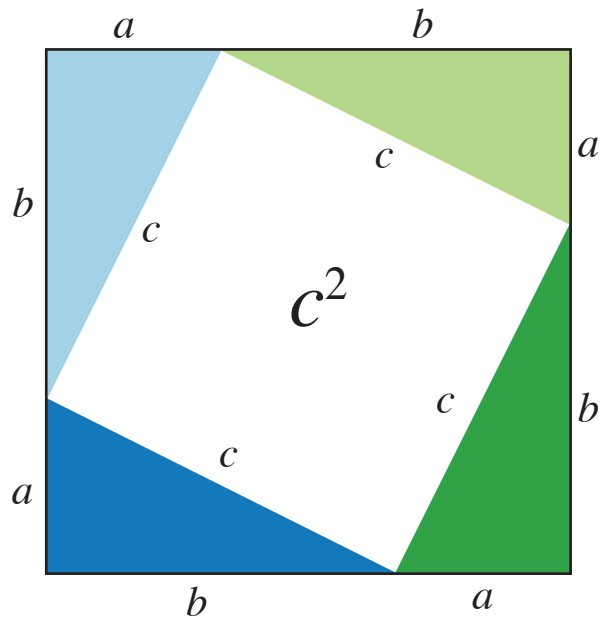


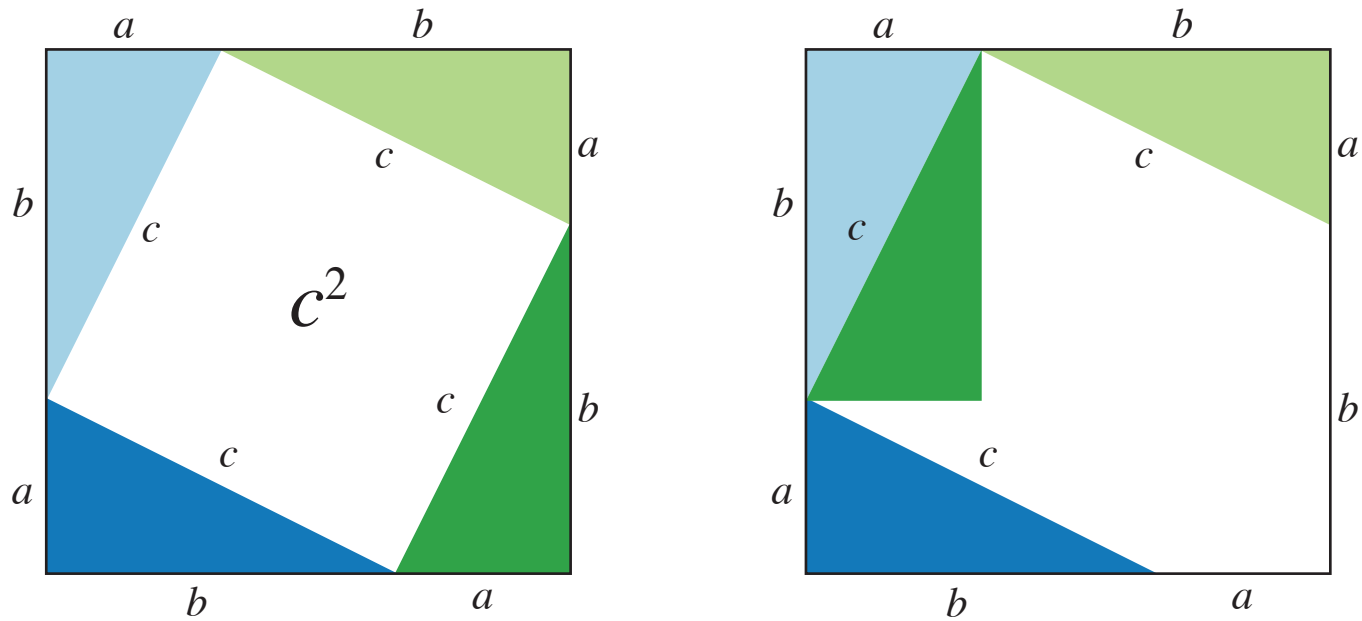


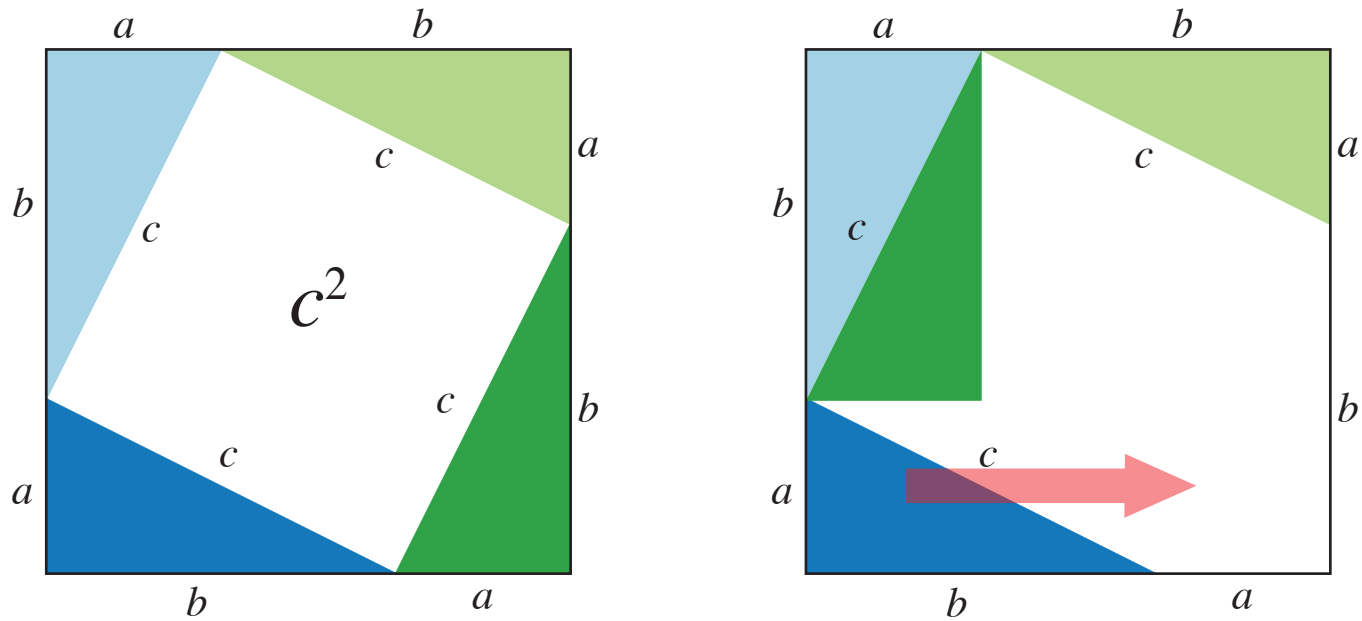




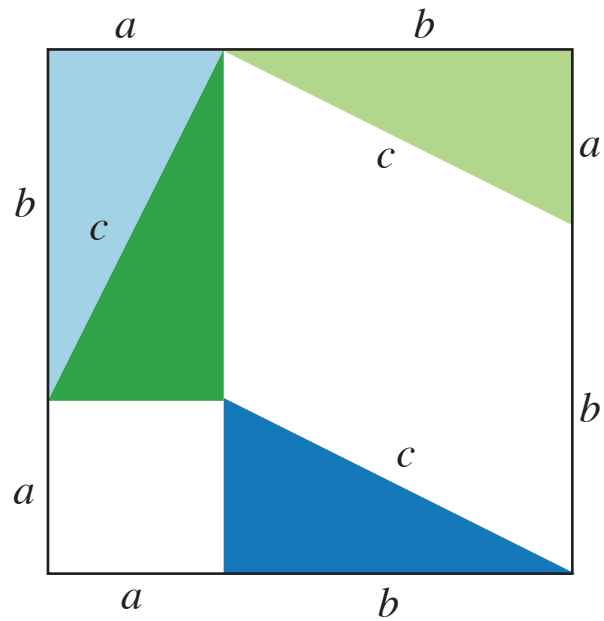
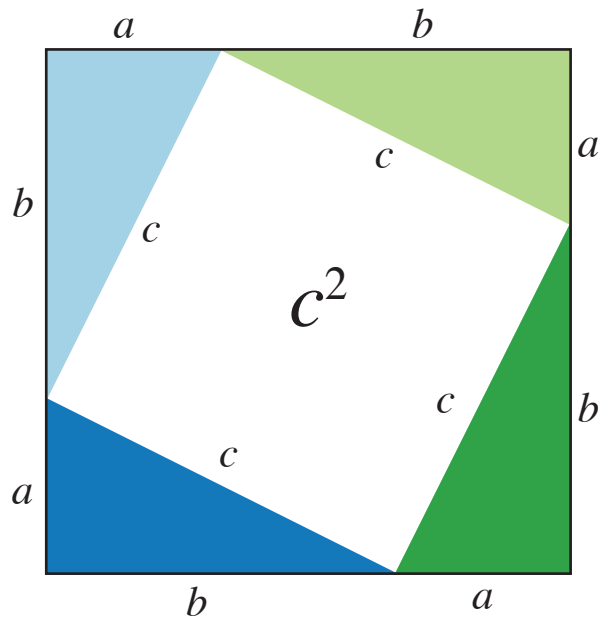


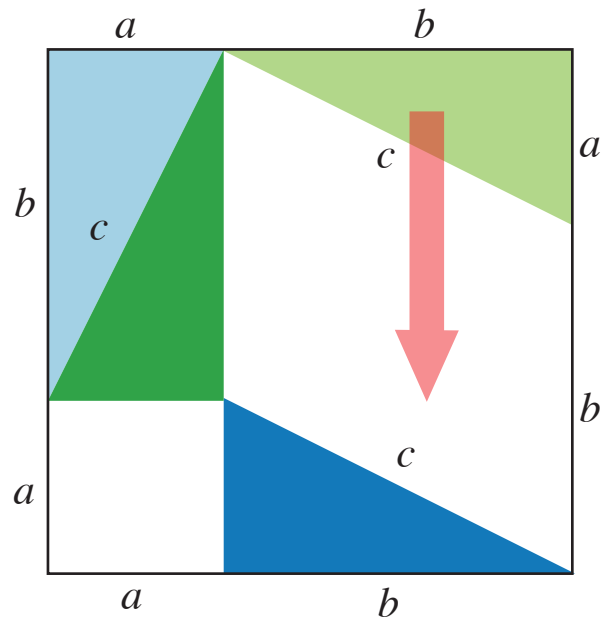
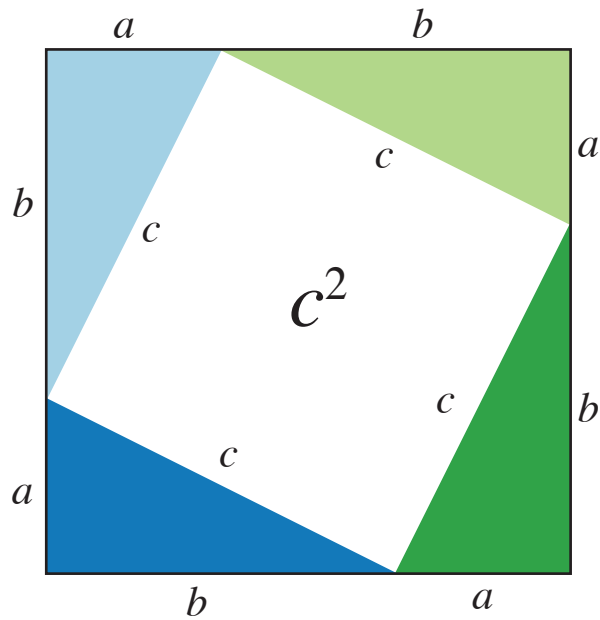


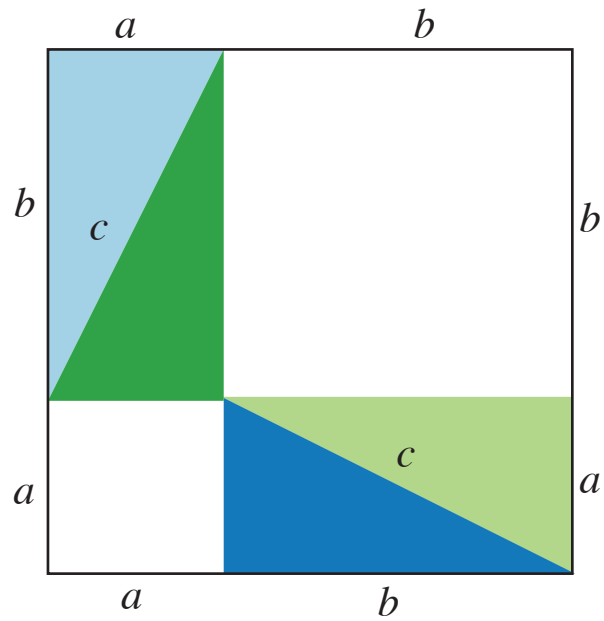
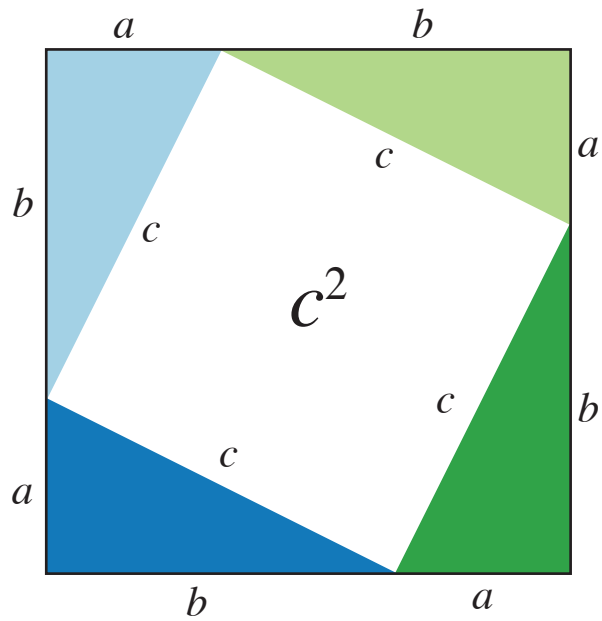




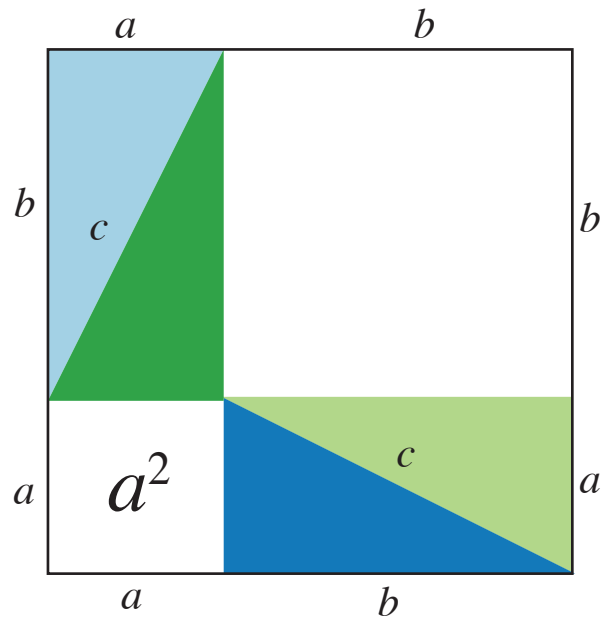
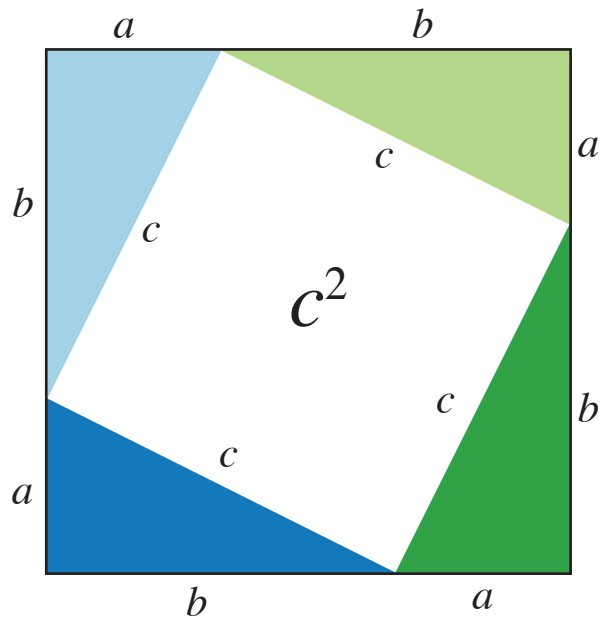


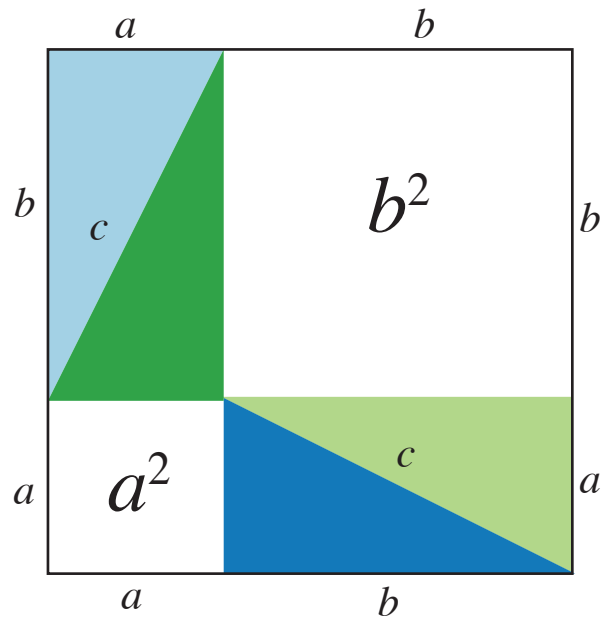
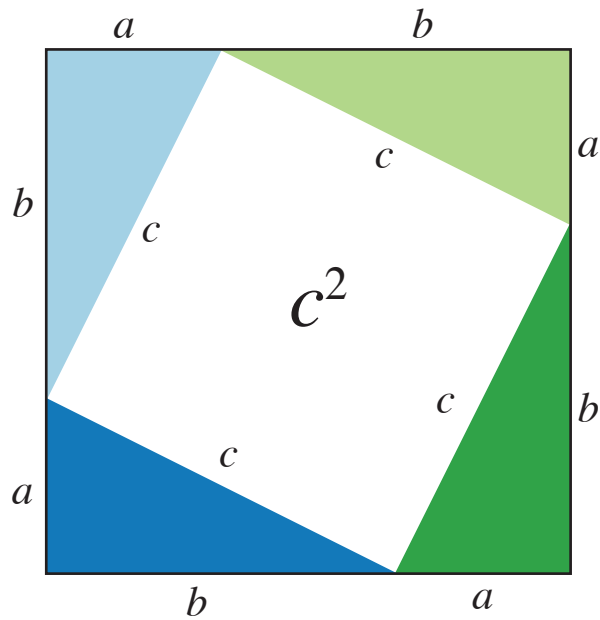




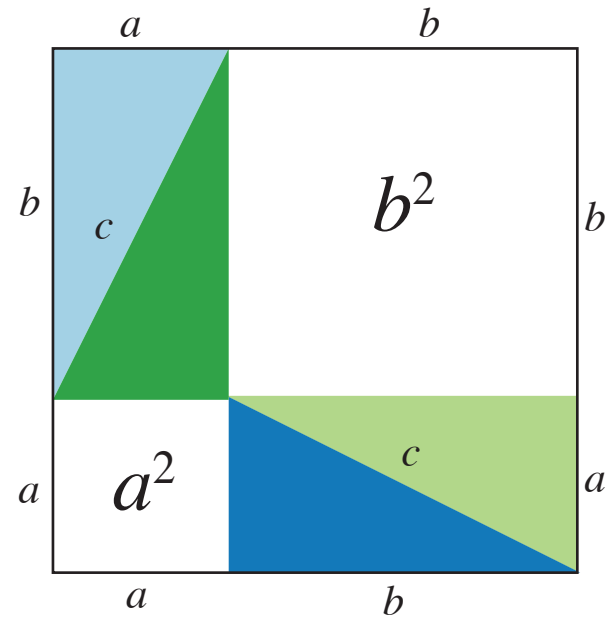
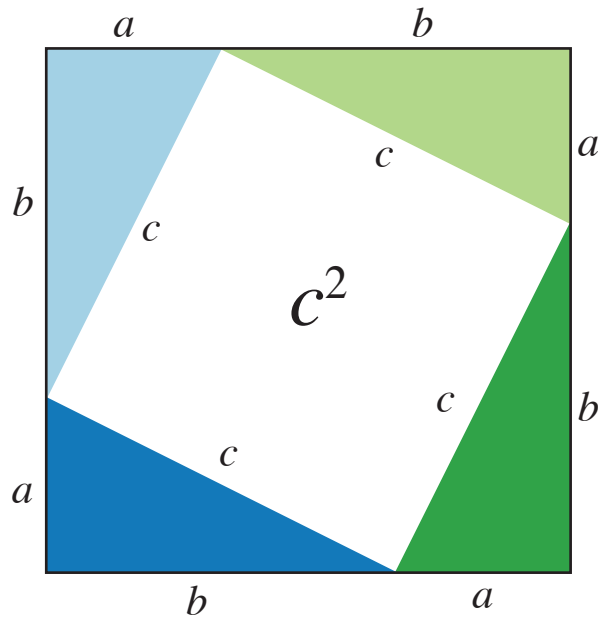








$$a^2 + b^2 = c^2$$







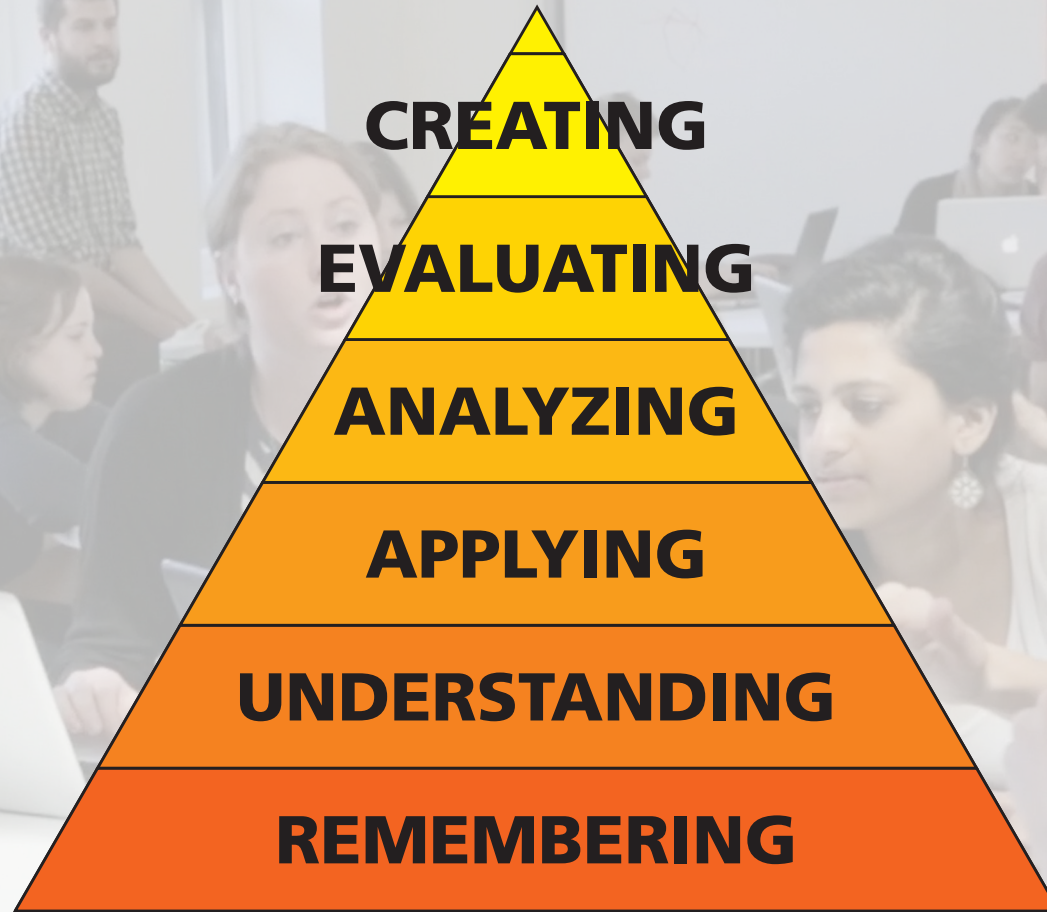
**six questions culled from various  
lesson plans on the Pythagorean theorem**



**task: classify them using Bloom's taxonomy**

**1** context

**2** classify



**1** context

**2** classify



use this link to see, classify, and rank the six questions

[http://bit.ly/qw\\_rank](http://bit.ly/qw_rank)



**1** context

**2** classify



**task: improve each of the six questions**

**1** context

**2** classify

**3** improve



working in groups, improve the questions  
so they score higher on Bloom's taxonomy

[http://bit.ly/qw\\_improve](http://bit.ly/qw_improve)



**1** context

**2** classify

**3** improve

here is a copy of my analysis

[http://bit.ly/qw\\_analysis](http://bit.ly/qw_analysis)



**1** context

**2** classify

**3** improve

A group of students are in a classroom or computer lab. In the foreground, a woman with blonde hair is speaking, looking towards the right. Next to her, a woman with dark hair is looking at a laptop screen. The laptop screen shows a website with the title "learning catalysis" and a bar chart. Other students are visible in the background, some working on laptops. The text "what are *your* questions testing?" is overlaid in the center of the image.

what are *your* questions testing?



summary of links from this workshop

[http://bit.ly/qw\\_links](http://bit.ly/qw_links)



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**mazur.harvard.edu**

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