Designing questions for student-centered learning: Part 1

Professional Development Day
Episcopal Academy
Newtown Square, PA, 24 March 2023

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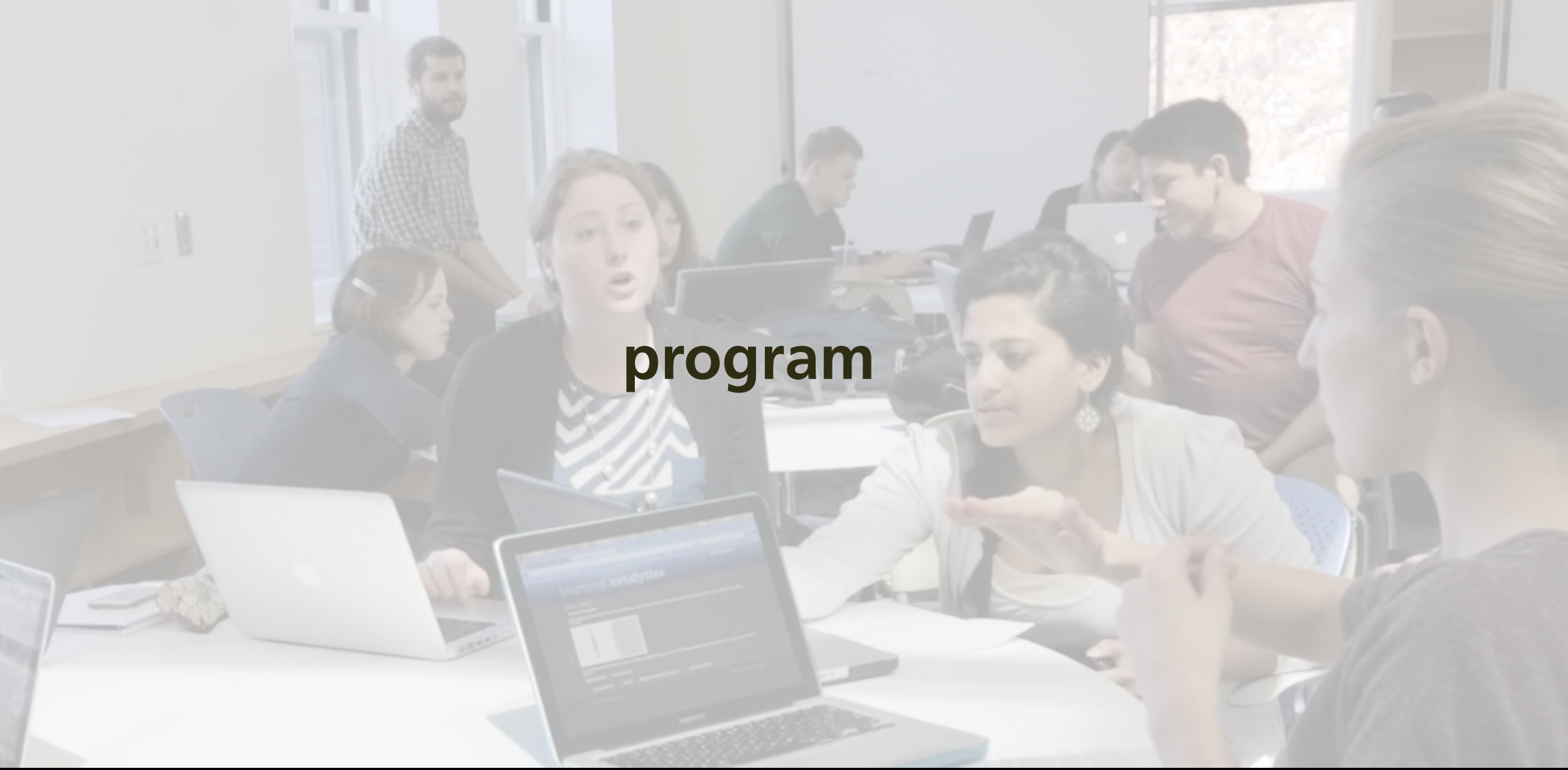
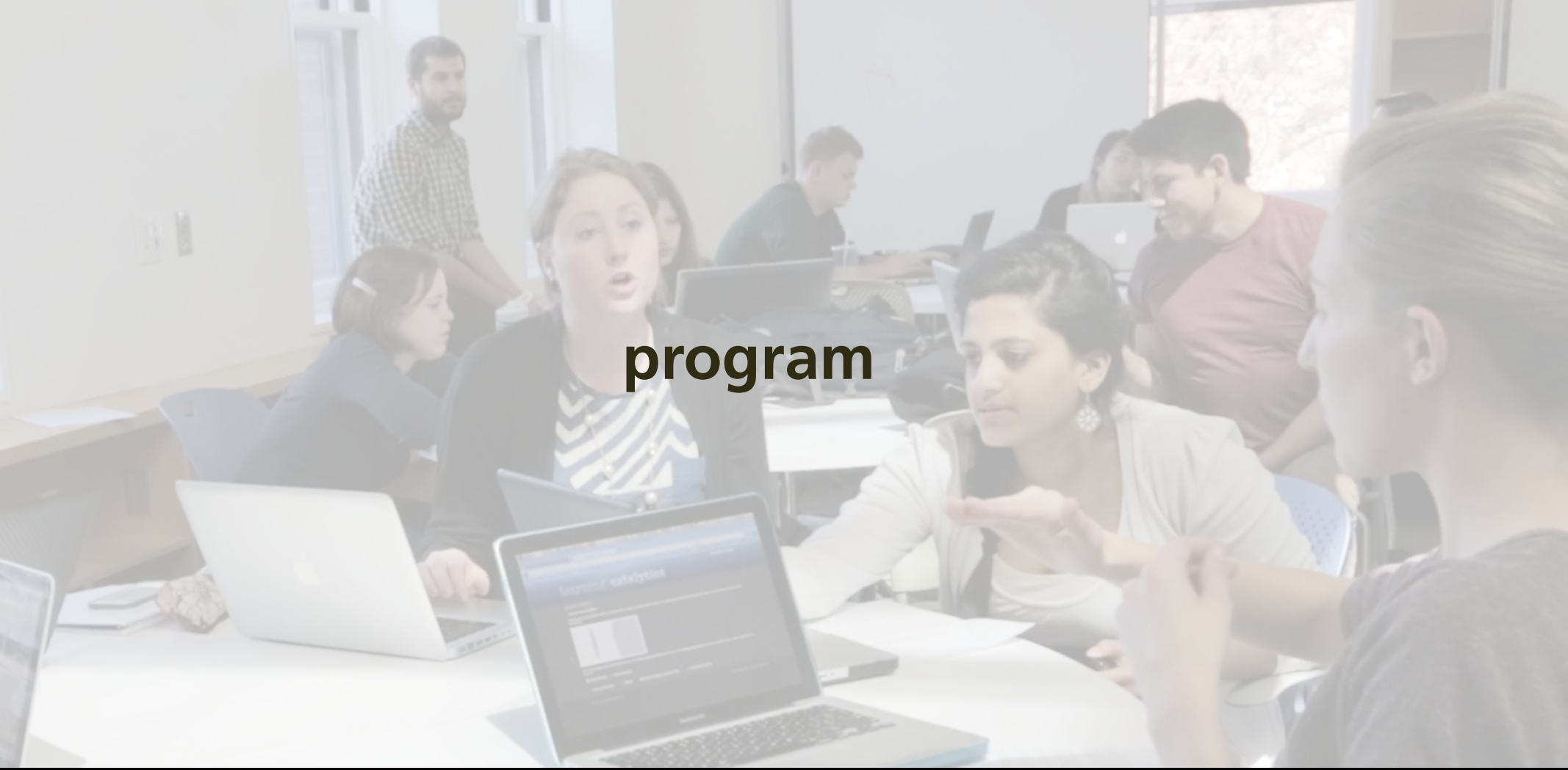


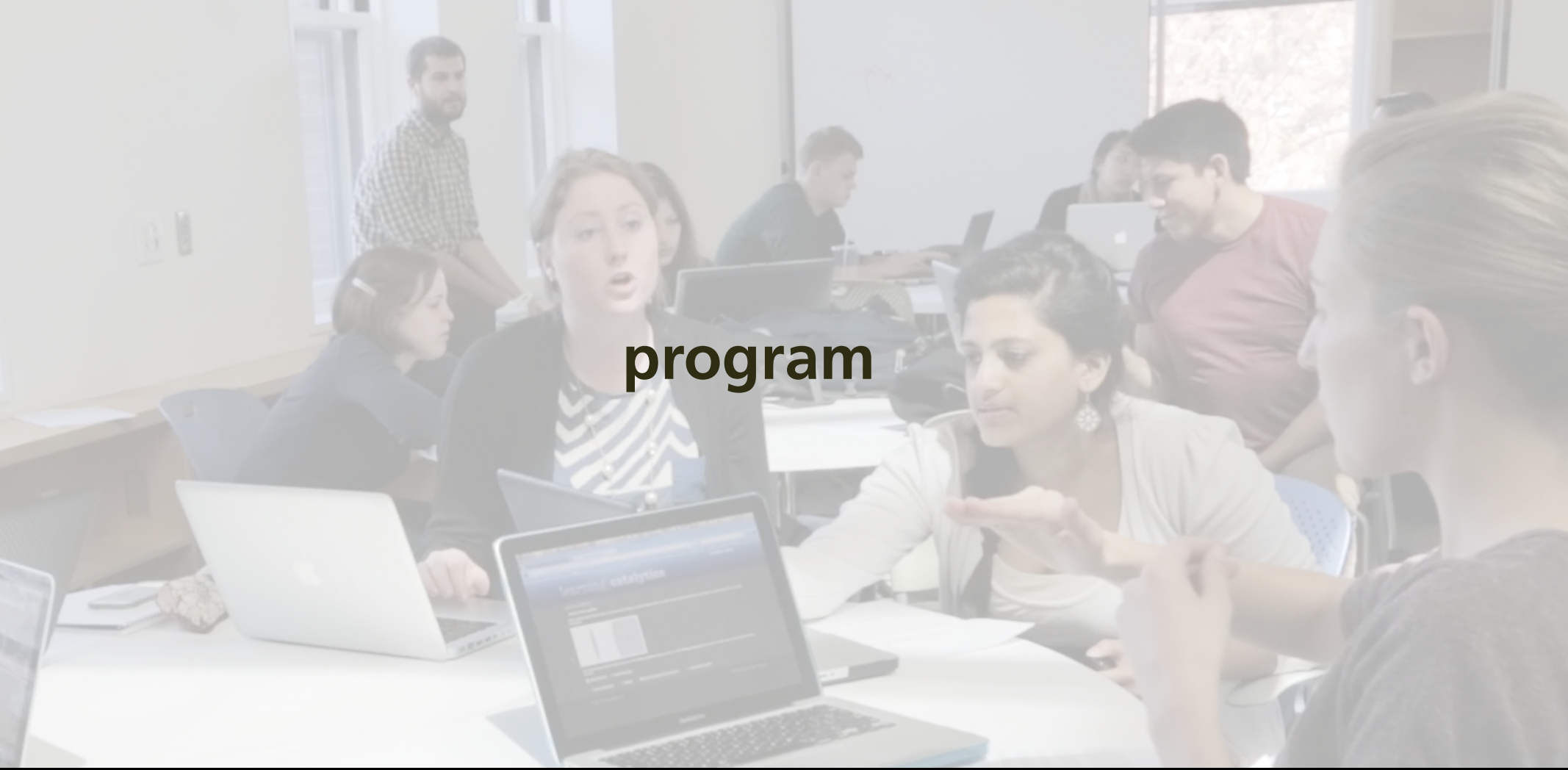
program

1 context



program

1. context
2. classify



program

1 context

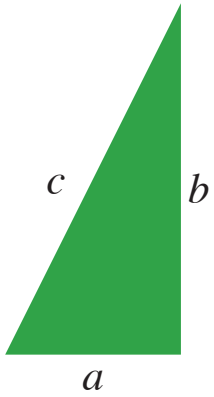
2 classify

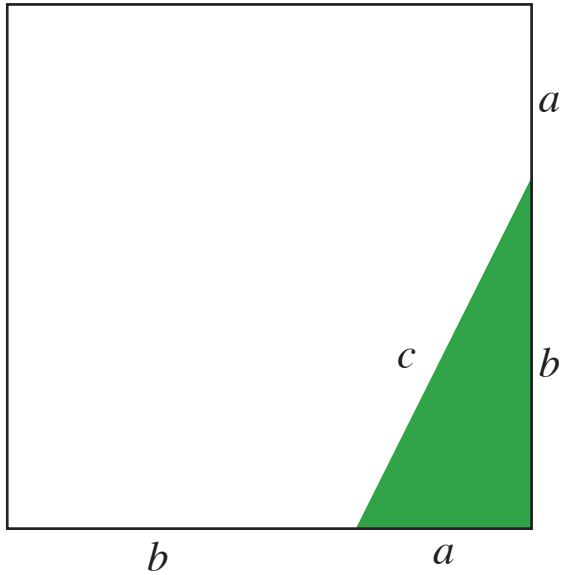
3 improve

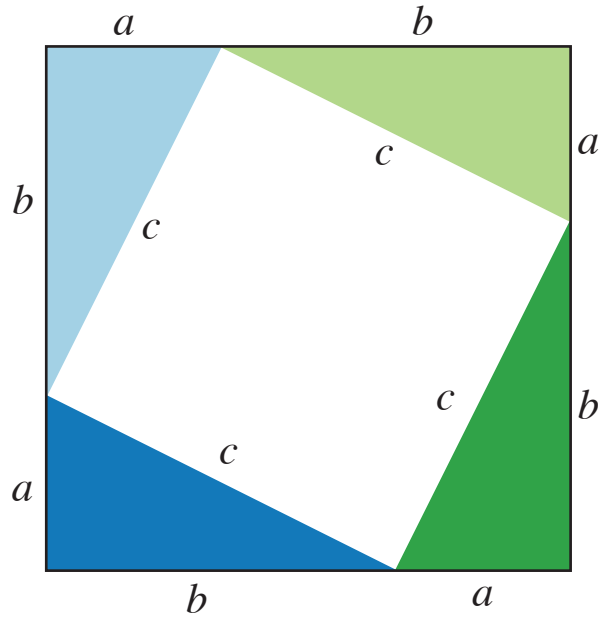
Pythagorean theorem

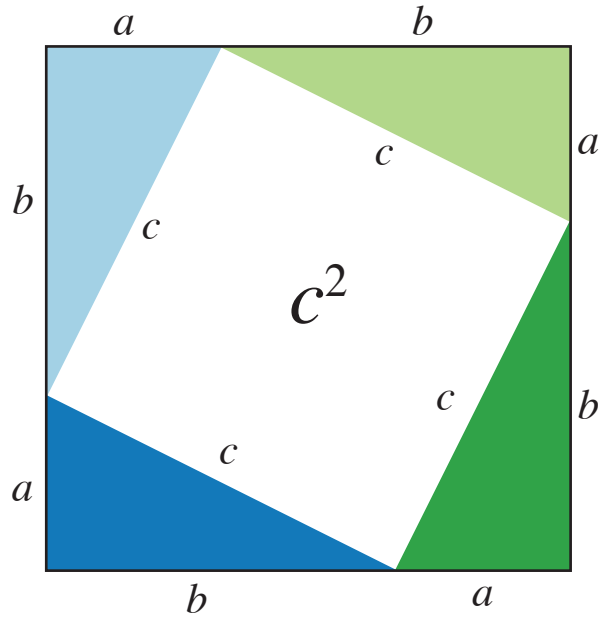
1 context

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

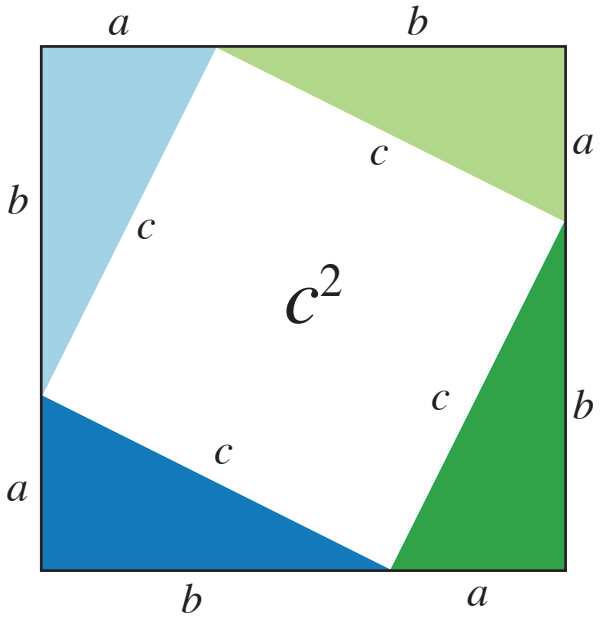


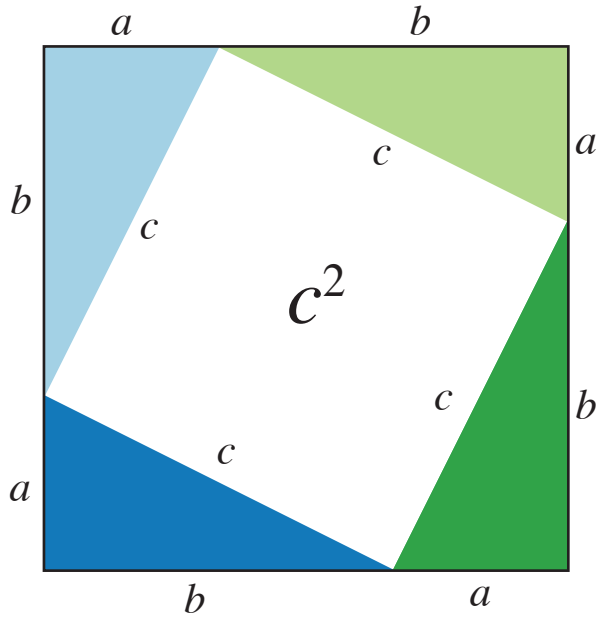

a
c
b
b
a


a
b
a
b
c
c
c
c
b
a
b
a

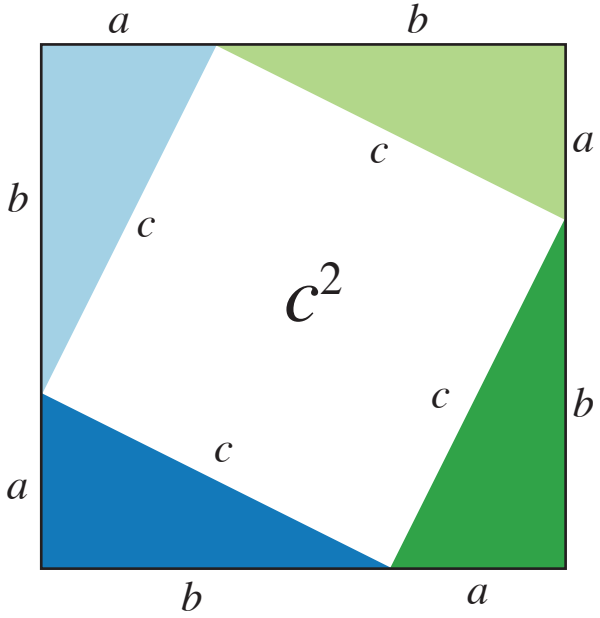


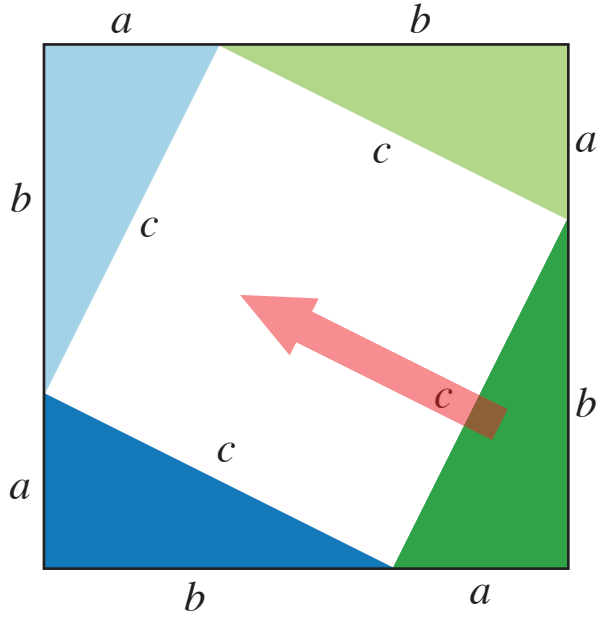
1 context



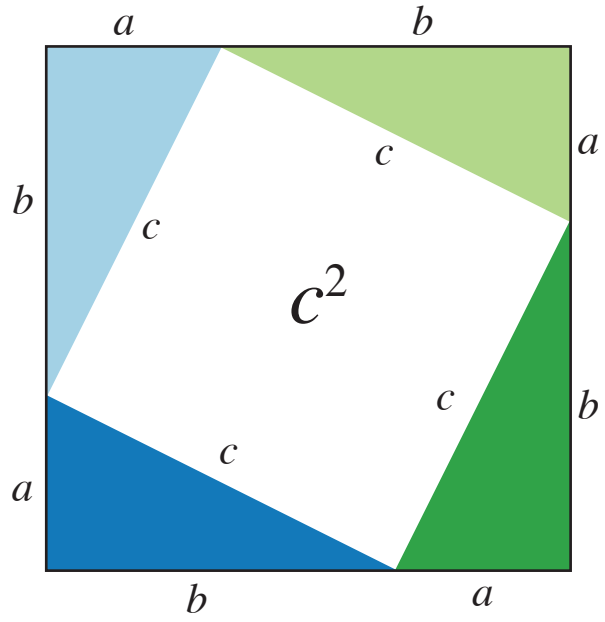


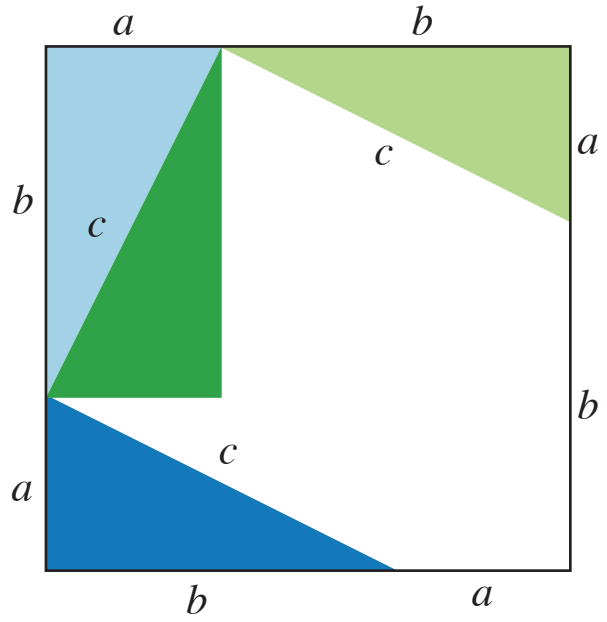
1 context





1 context





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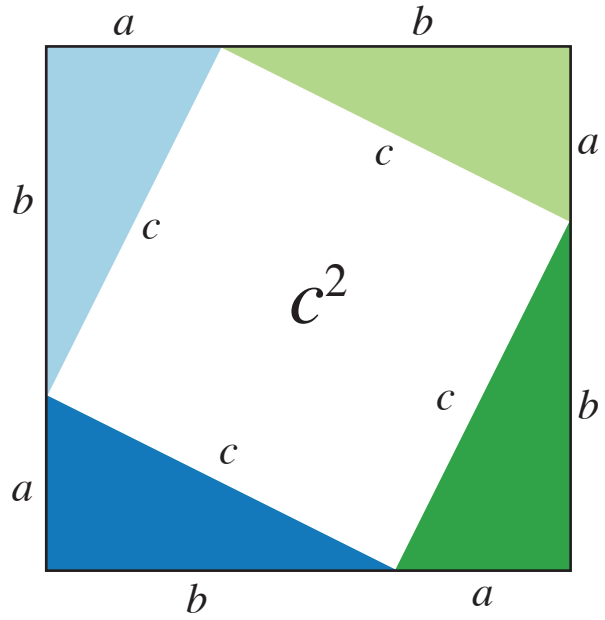
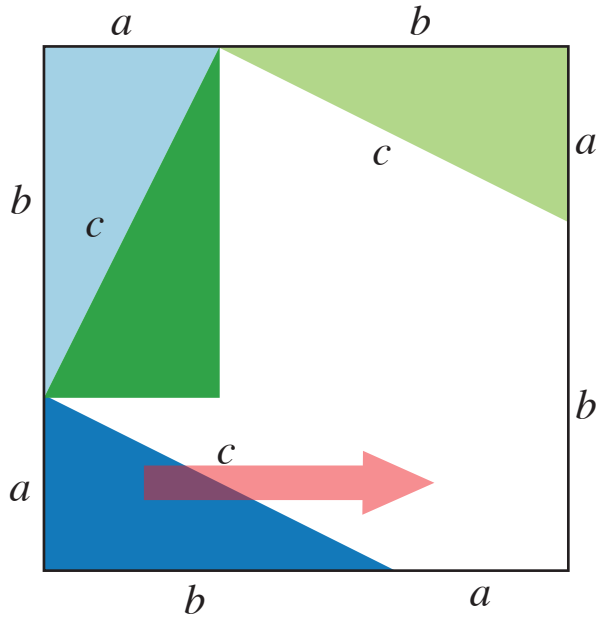
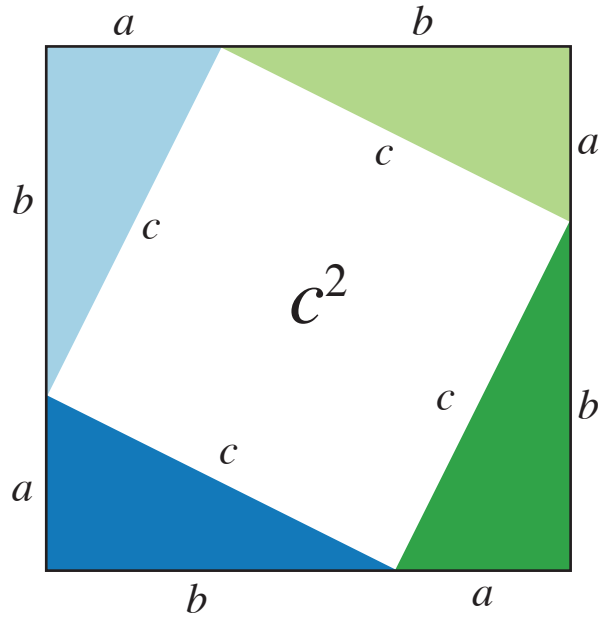
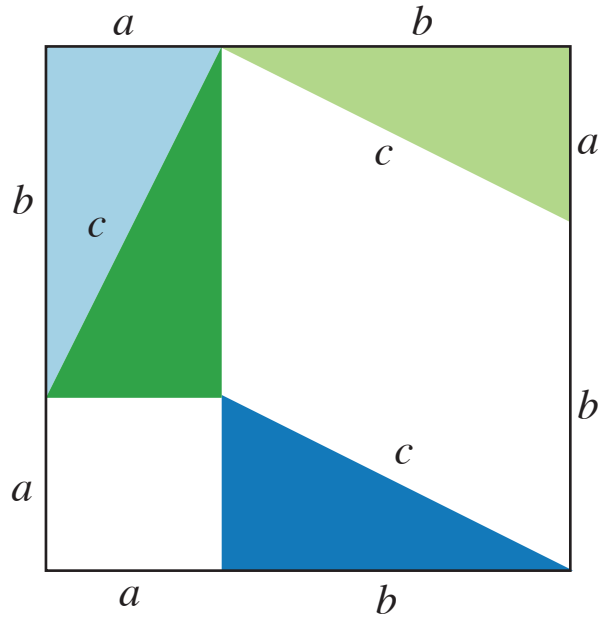


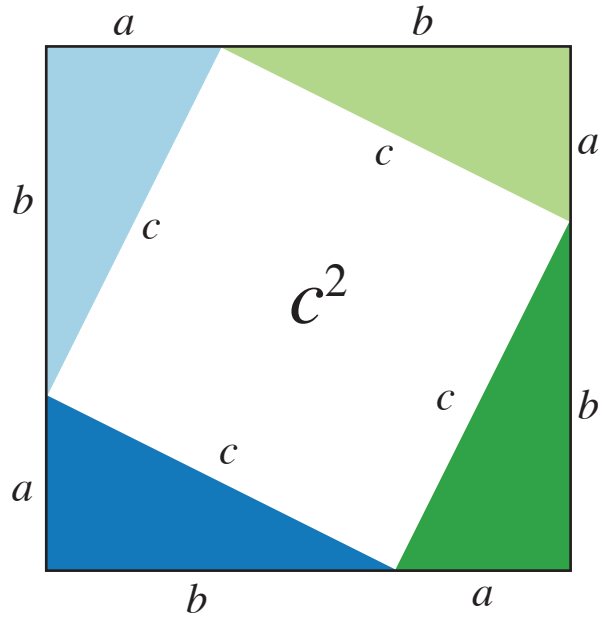


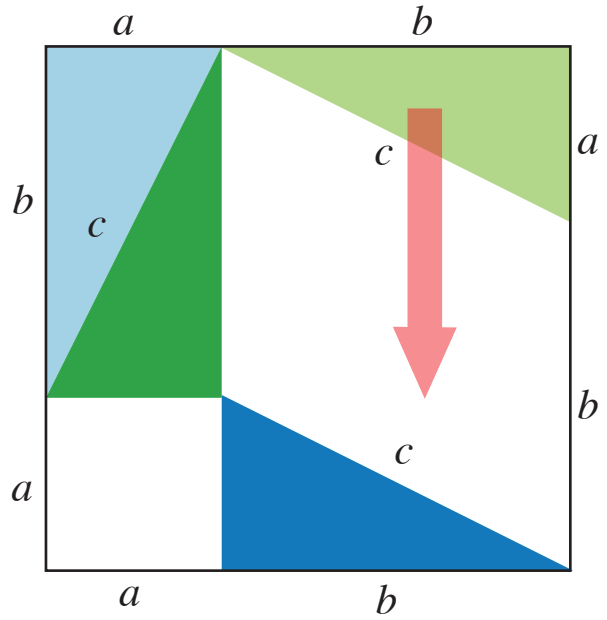
1 context



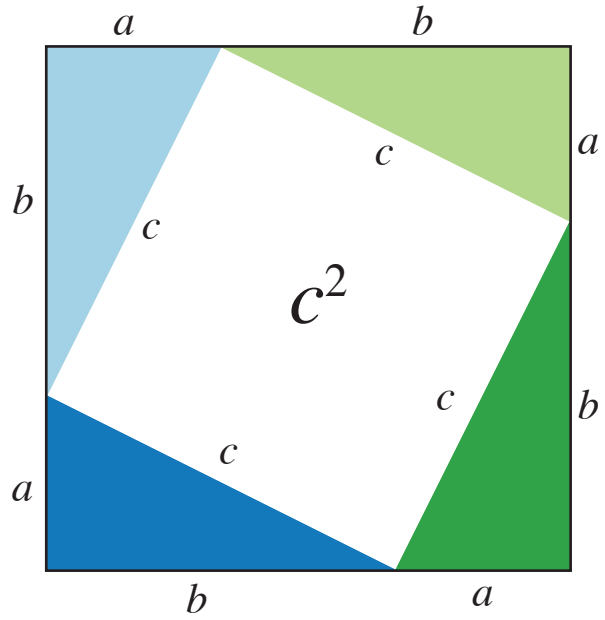


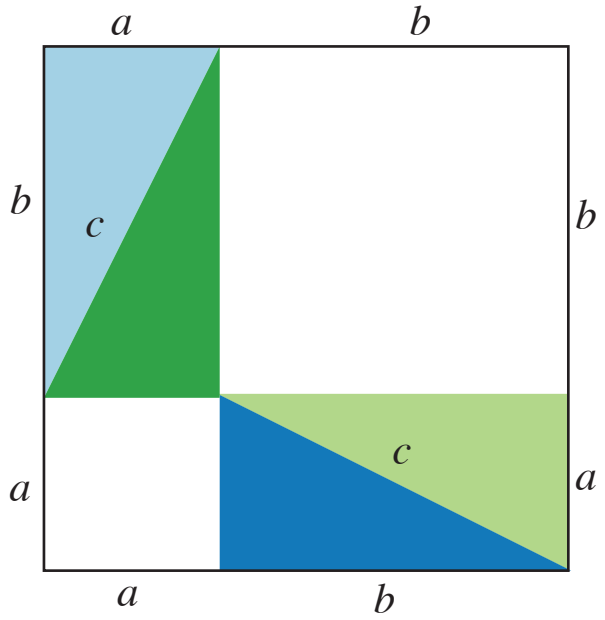
1 context





1 context





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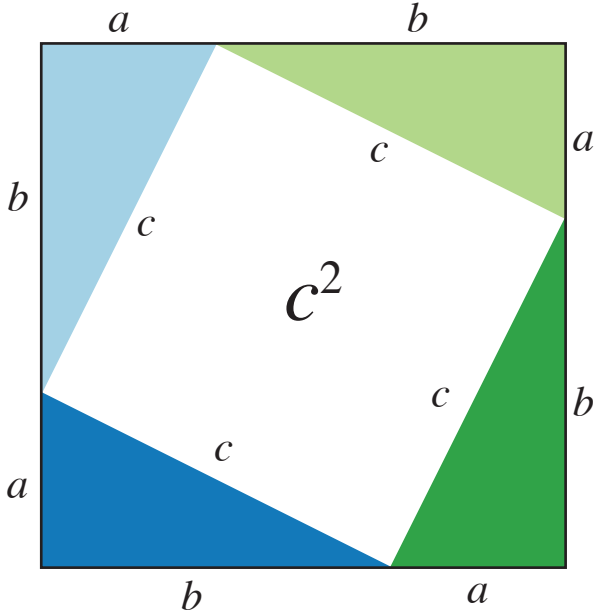
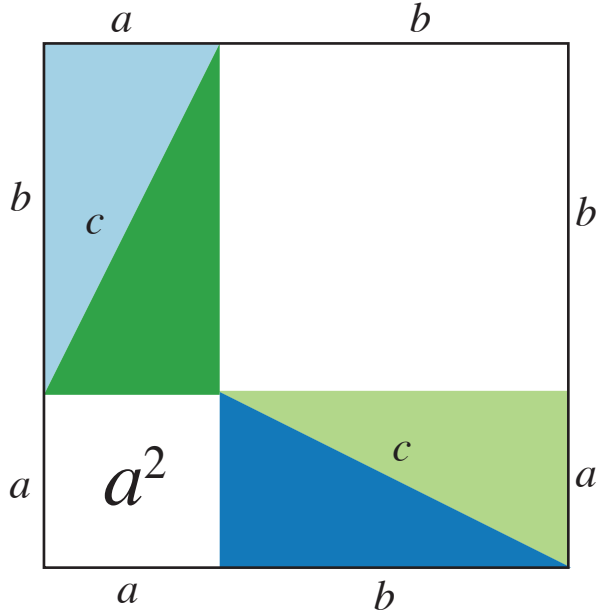
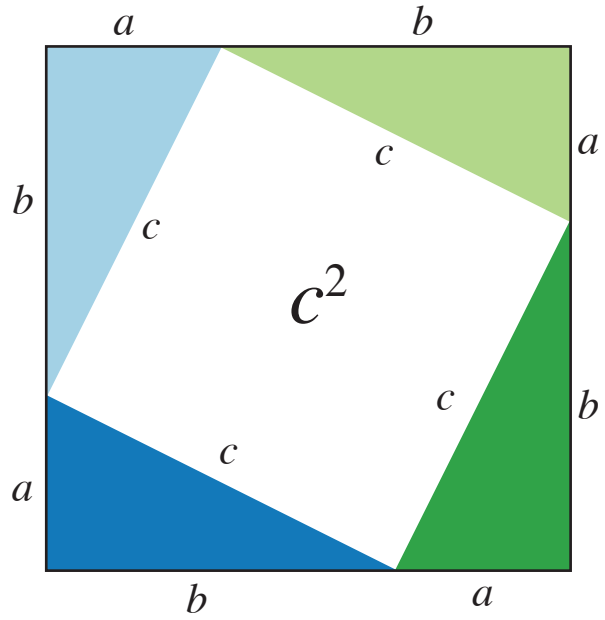
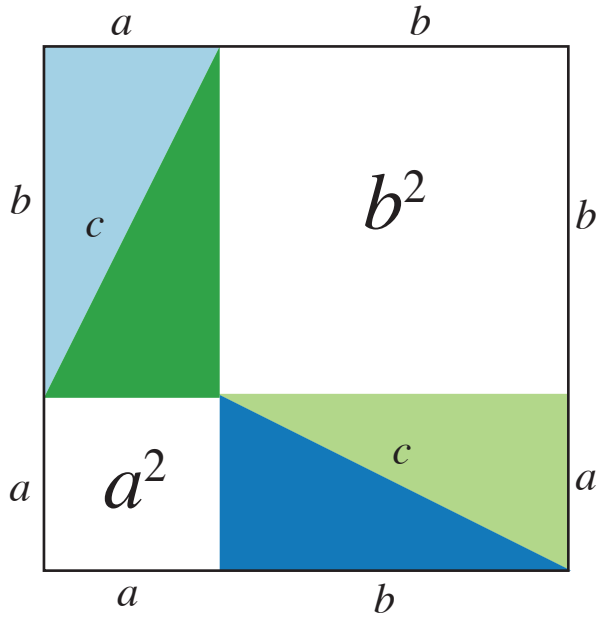




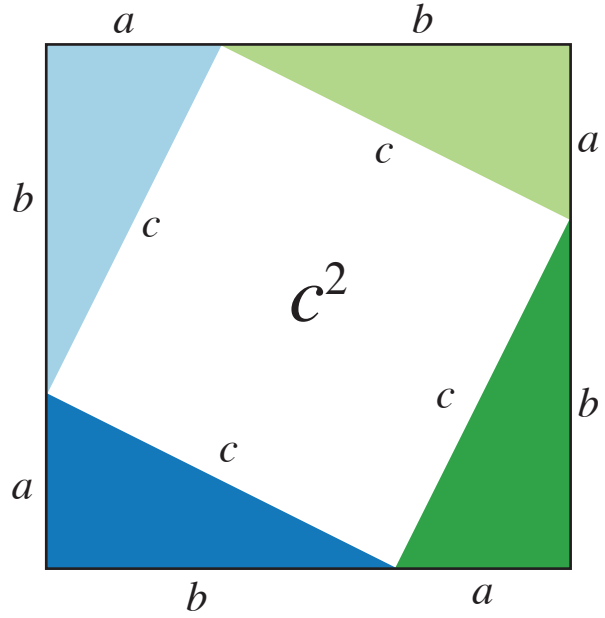
1 context

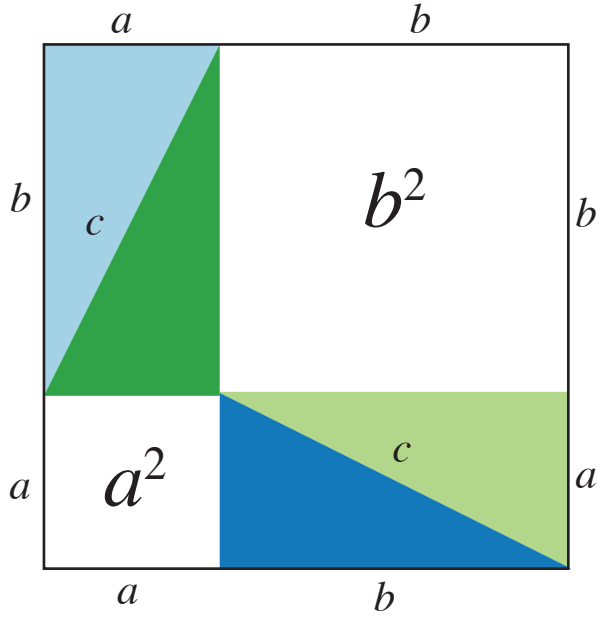


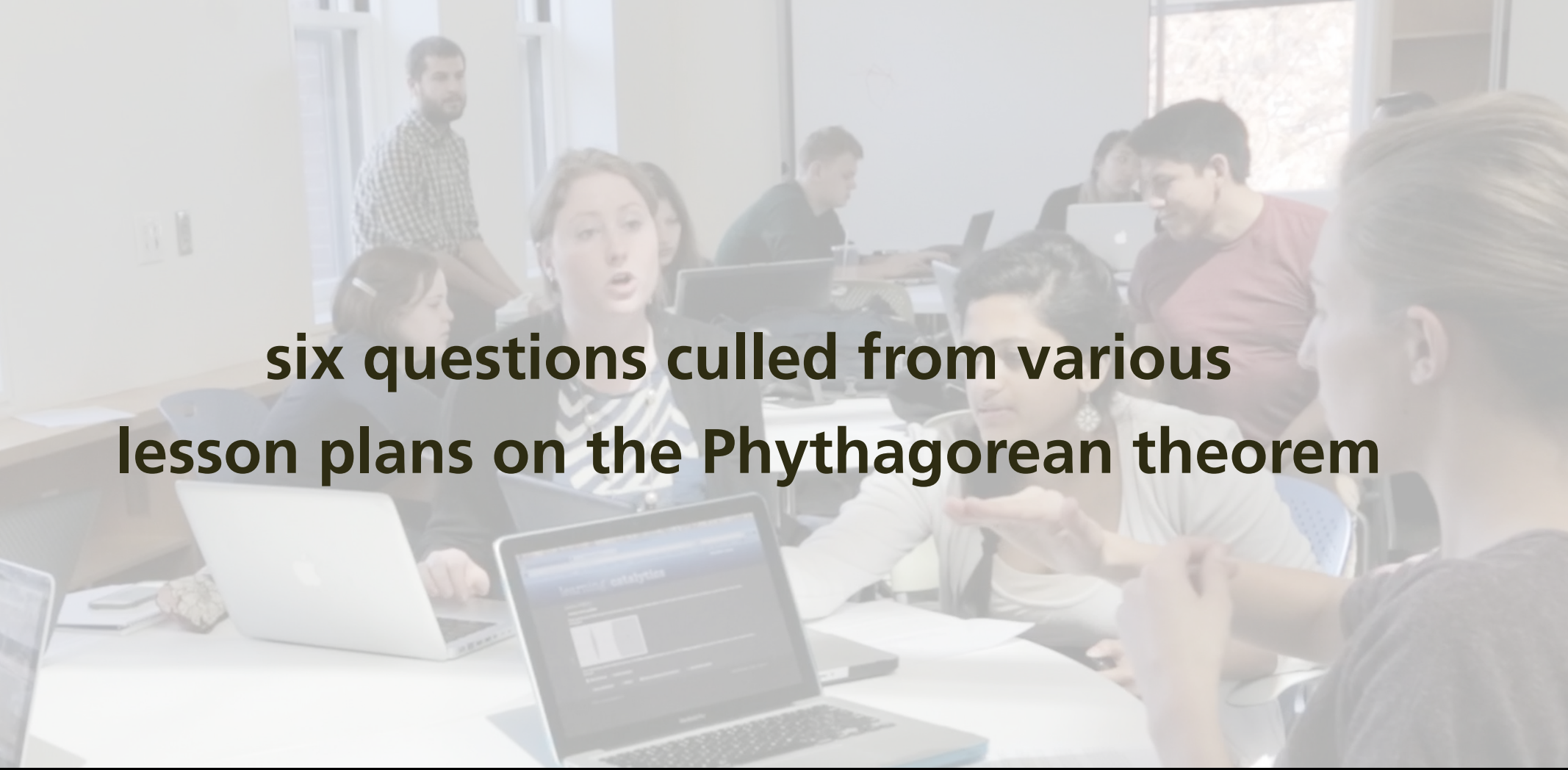


1 context

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







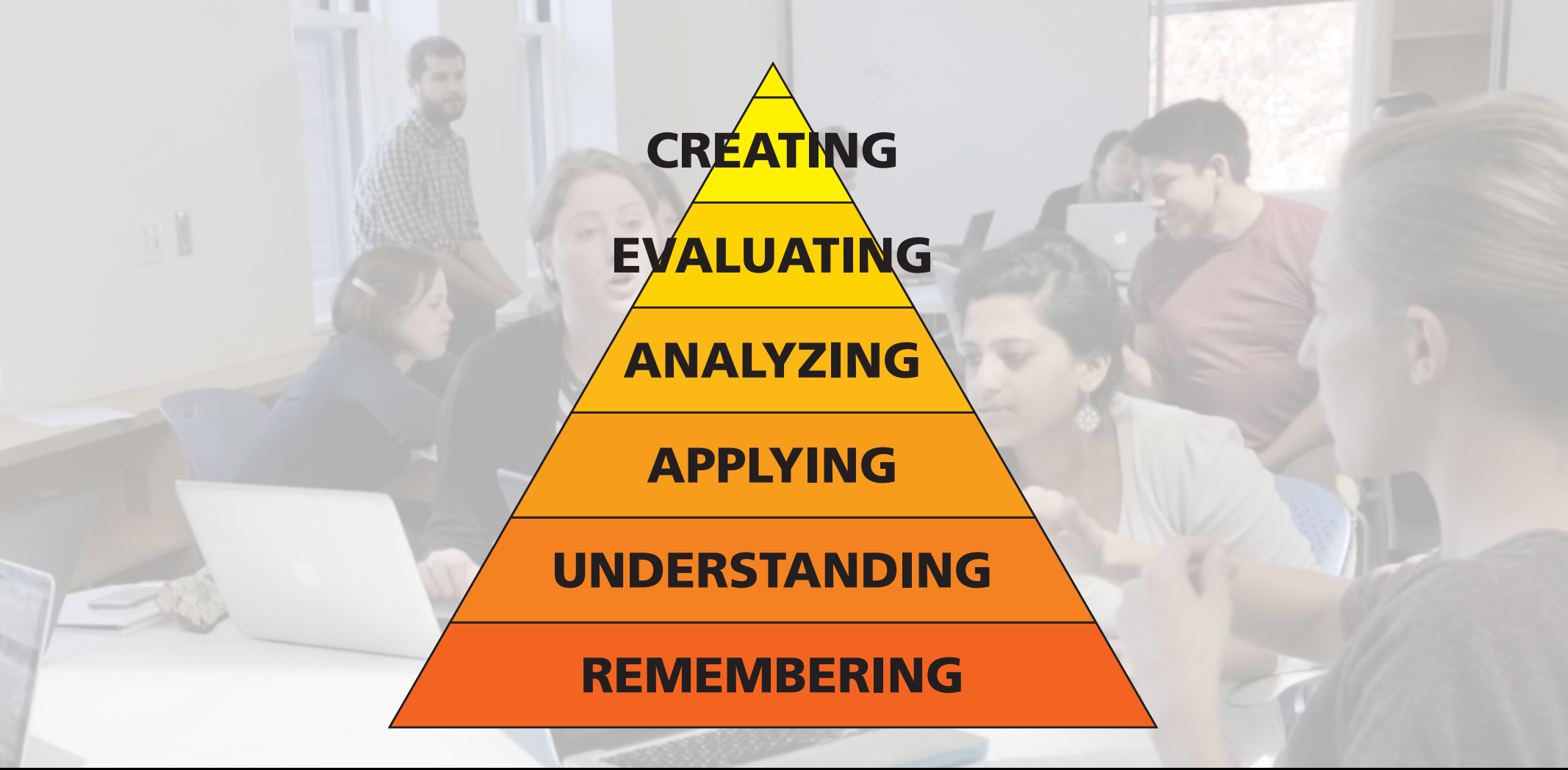
six questions culled from various lesson plans on the Phythagorean theorem

1 context

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

1 context

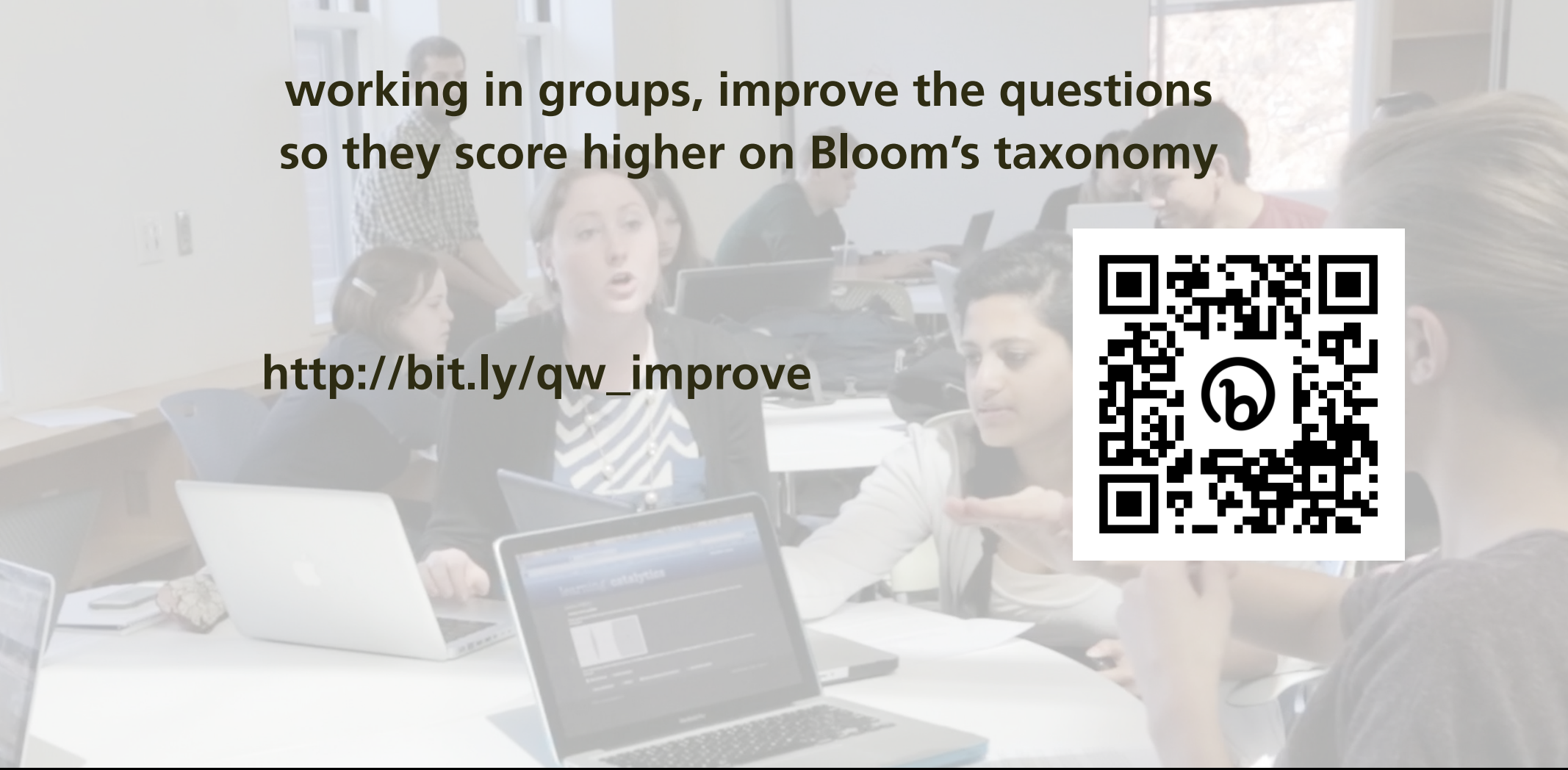
2 classify

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

1 context 2 classify 3 improve

here is a copy of my analysis

http://bit.ly/qw_analysis

1 context 2 classify 3 improve

what are *your* questions testing?

summary of links from this workshop

http://bit.ly/qw_links

For a copy of these slides:

mazur.harvard.edu

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