

#nyccami

# Teacher-Driven Learning Circles

NYC Community of Adult Math Instructors (CAMI)

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# Community of Adult Math Instructors (CAMI)

A group of teachers from different adult literacy and high school equivalency programs

Generalists who may not have a math background

Teach young adults and adults (17+)

Meet once a month to do math and talk about teaching

# Our Goals

In this workshop, we hope participants will:

Experience the possibilities of a math teachers' circle

Explore approaches to problem-posing and problem-solving

Learn from each other

And we hope that someone will leave here with the idea of starting their own circle...

*Post questions, strategies and photos to this Twitter hashtag.*

# Problem Solving

A problem-solving approach to teaching math

Open-ended, non-routine problems

No obvious solution method

Multiple strategies

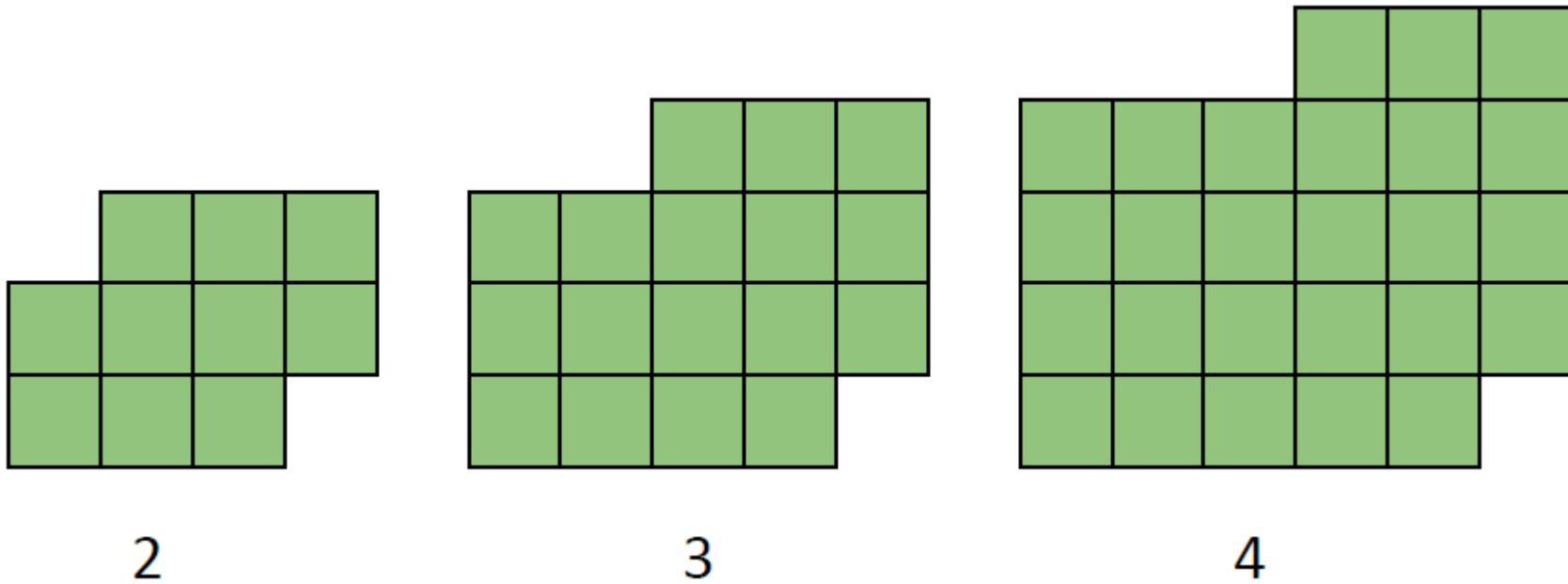
Multiple correct answers (sometimes)

One problem per meeting

“No matter how kindly, clearly, patiently, or slowly teachers explain, they cannot make students understand. Understanding takes place in the students’ minds as they connect new information with previously developed ideas, and teaching through problem solving is a powerful way to promote this kind of thinking.”

Lambdin, 2003\*

\*from Teaching Mathematics through Problem Solving, by Diana Lambdin



What do you notice?

Pose some questions.

## Create a Poster with a Partner

First, write your question and your names.

Your poster should show more than just your answer to the question you chose. Show your work/thinking as well.

When you're finished, post on the wall. Take photos of your work and post to #nyccami.

# Gallery Walk

Walk around and appreciate the posters we created. For as many as you can, post comments:

Things that you like

Questions you have



# Math Teachers' Circles

- How is working on this problem relevant to our teaching?
- What are the benefits of teachers working together in a math teachers' circle?
  - Deepen our mathematical understanding
  - Learn more than one way to solve problems
  - Prepare to understand student thinking
  - Experience productive struggle
  - Improve our teaching

## Contact Us:

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## Web Sites:

nyccami.org · MathMemos.org · CollectEdNY.org

## Resources:

<http://www.visualpatterns.org>

<http://www.mathteacherscircle.org>