



**Math Solutions**<sup>®</sup>

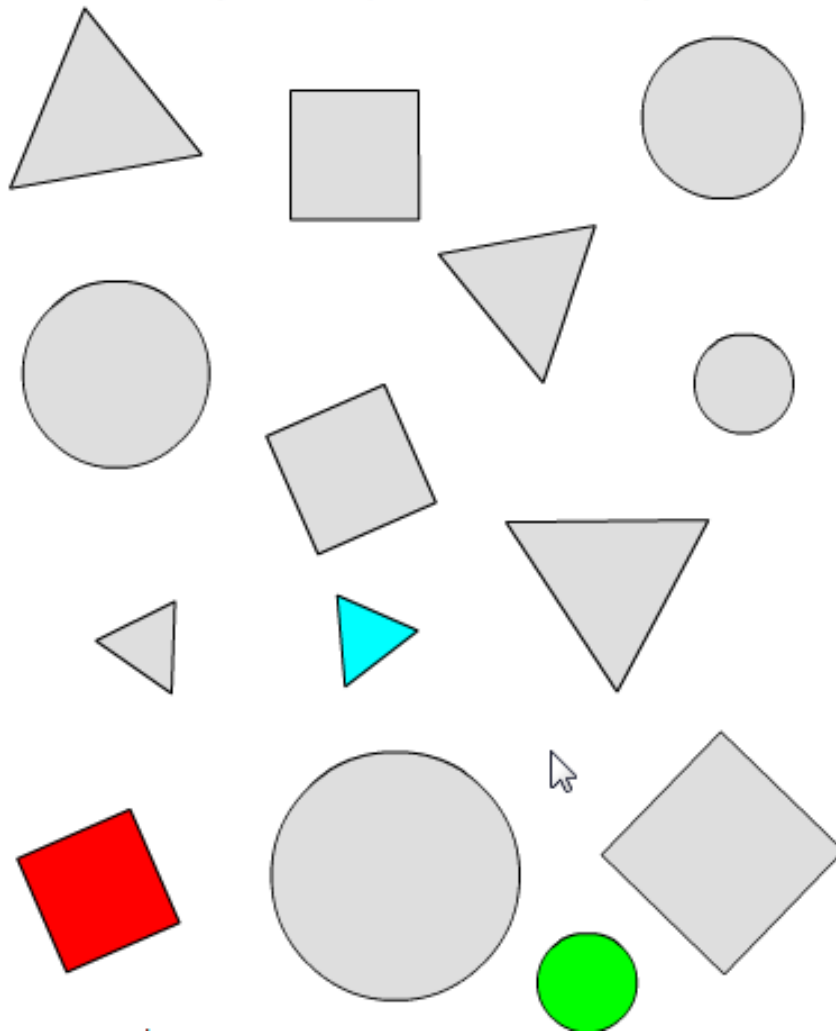
FOUNDED BY MARILYN BURNS

# IT'S A RHOMBUS, NOT A DIAMOND

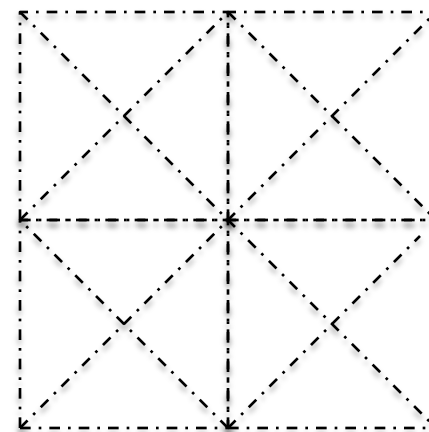
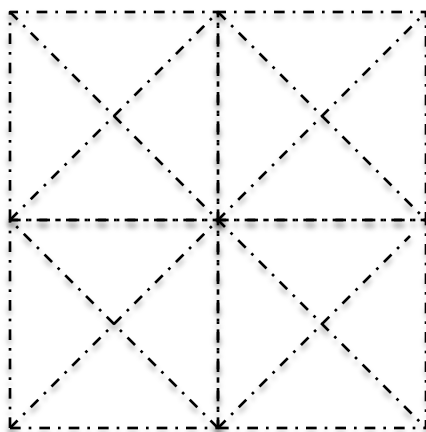
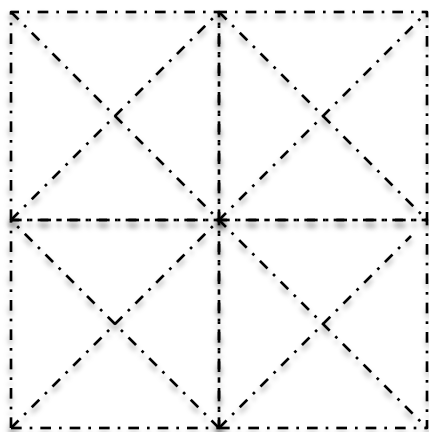
Amy Mayfield

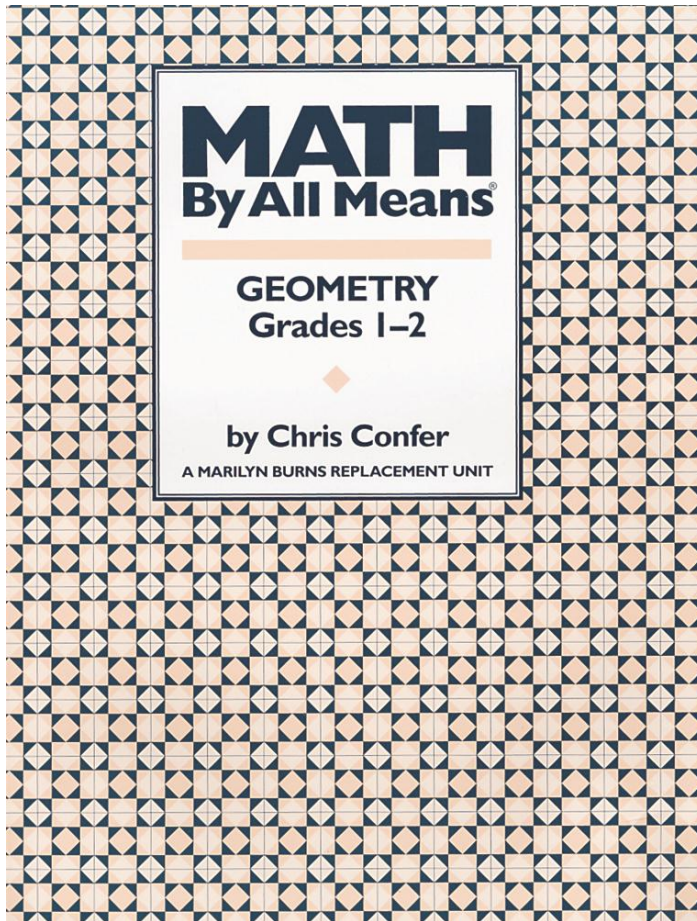
link to slides: <http://mathsolutions.com/presentation>

# Find and color the shapes.



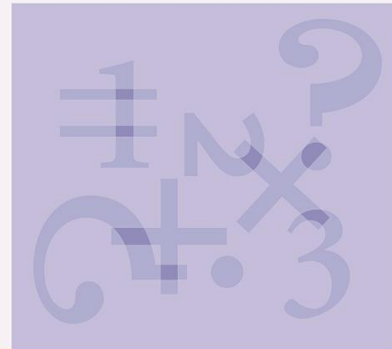
In each figure below, outline a square.  
The squares must not be the same size.



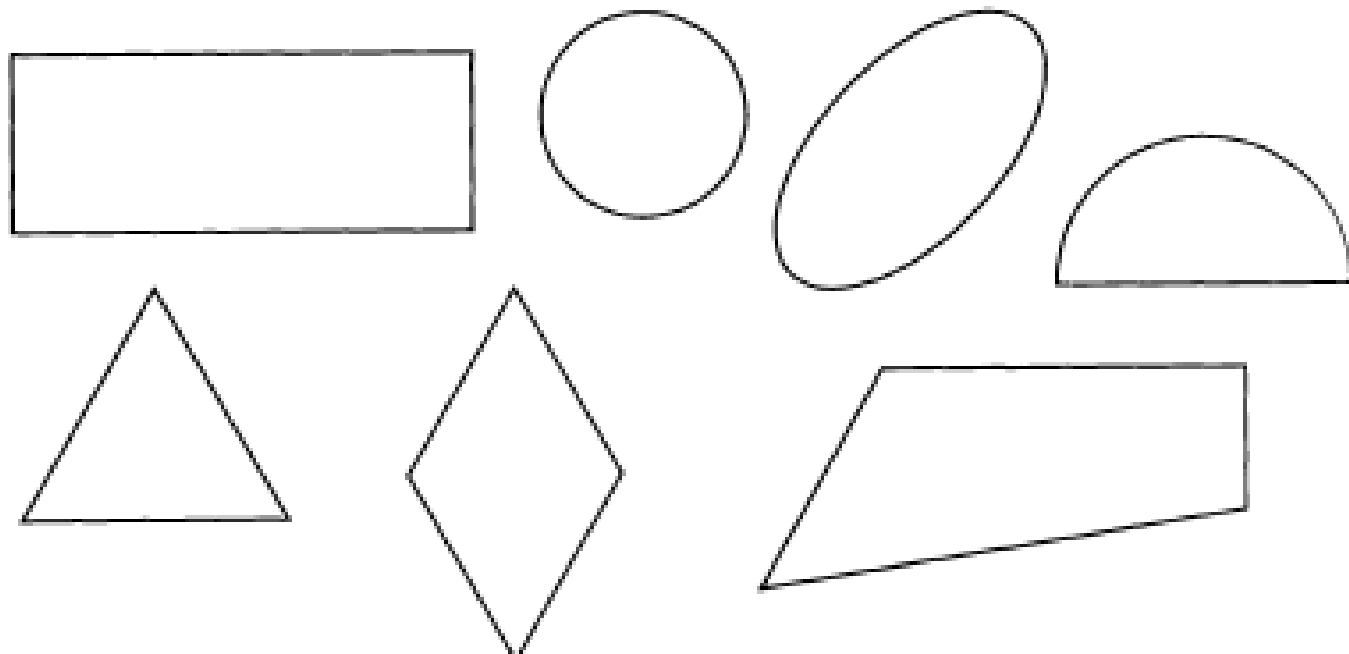


Good Questions for  
**MATH TEACHING**

Why Ask  
Them  
and What  
to Ask  
[K-6]



Peter Sullivan  
Pat Lilburn



# Play Doh Stamping

Work with a partner.. One person chooses a block and stamps one of the faces in the play doh. The other person then tries to find which block was used.

Use the questions on your table to discuss the shapes and their attributes.

- Describe this shape.
- How is that shape like this one? How is it different?
- What shape is this? What makes it a \_\_\_\_\_? Why isn't it a \_\_\_\_\_?
- Where have you seen this shape before?
- What shapes could you make out of these shapes?
- Have you found all the ways to put those shapes together? How do you know?

# Levels of Geometric Thinking



**Level 0**

**Level 1**

**Level 2**



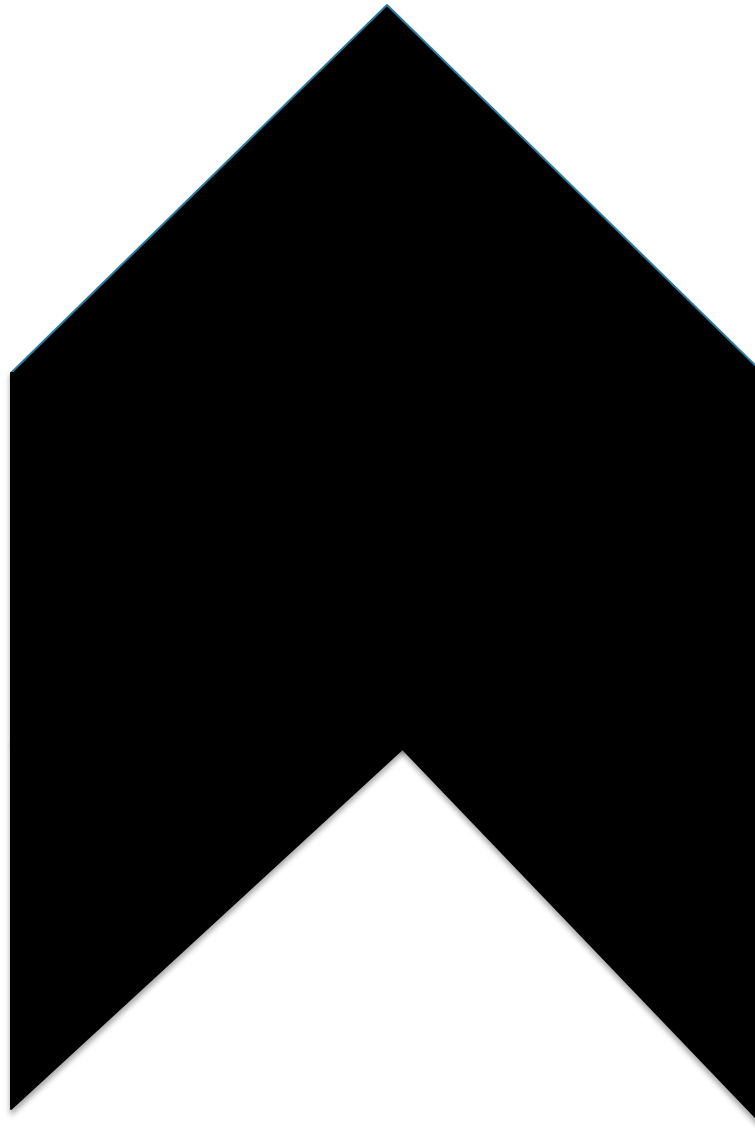
Identify and describe shapes. Analyze, compare, create, and compose shapes.

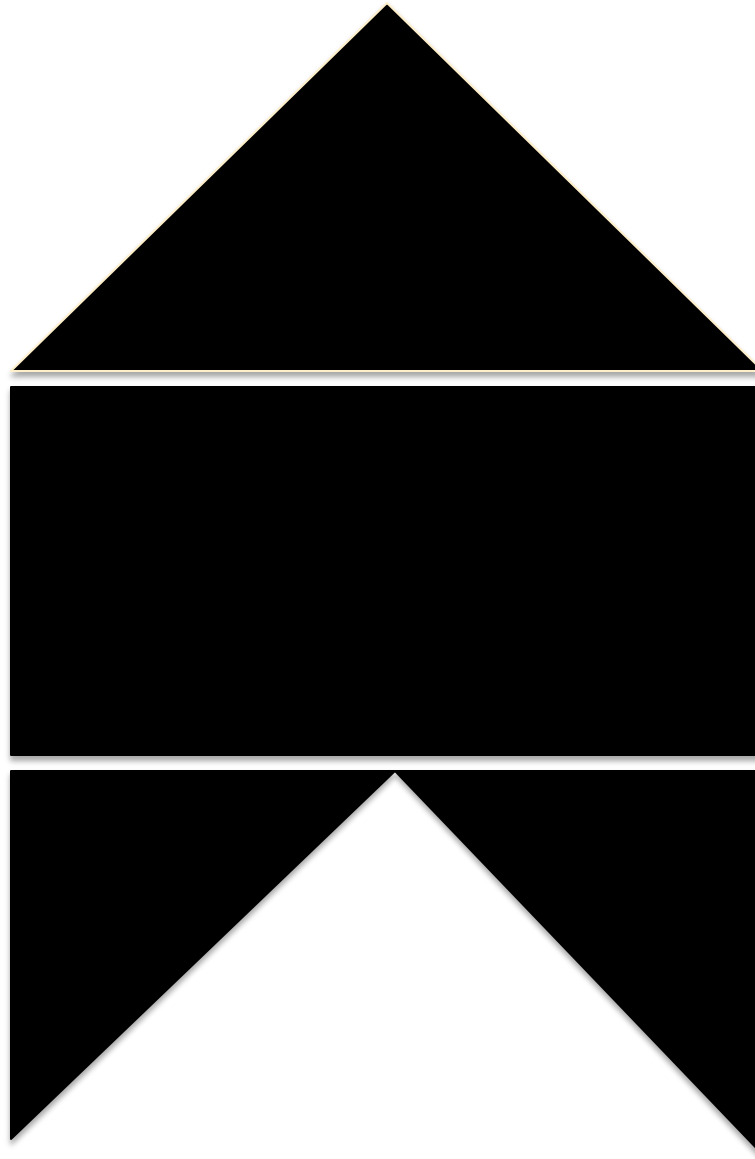
K

Reason with shapes and their attributes.

1<sup>st</sup>/2<sup>nd</sup>







- The sides that touch have to be the same length.
- You cannot put a shape on top of another shape.
- You can use two, three, or four shapes to make a new shape.

- Describe this shape.
- How is that shape like this one? How is it different?
- What shape is this? What makes it a \_\_\_\_\_? Why isn't it a \_\_\_\_\_?
- Where have you seen this shape before?
- What shapes could you make out of these shapes?
- Have you found all the ways to put those shapes together? How do you know?

My shape has \_\_\_\_\_ .

I built my shape with \_\_\_\_\_ and  
\_\_\_\_\_ .

It looks like a \_\_\_\_\_ .

# Geoboard Exploration

- Create an object and let your partner guess what it is.
- Make a polygon with three distinct characteristics. Ask your partner to “tell you all they can” about your polygon. Did they include your three characteristics?

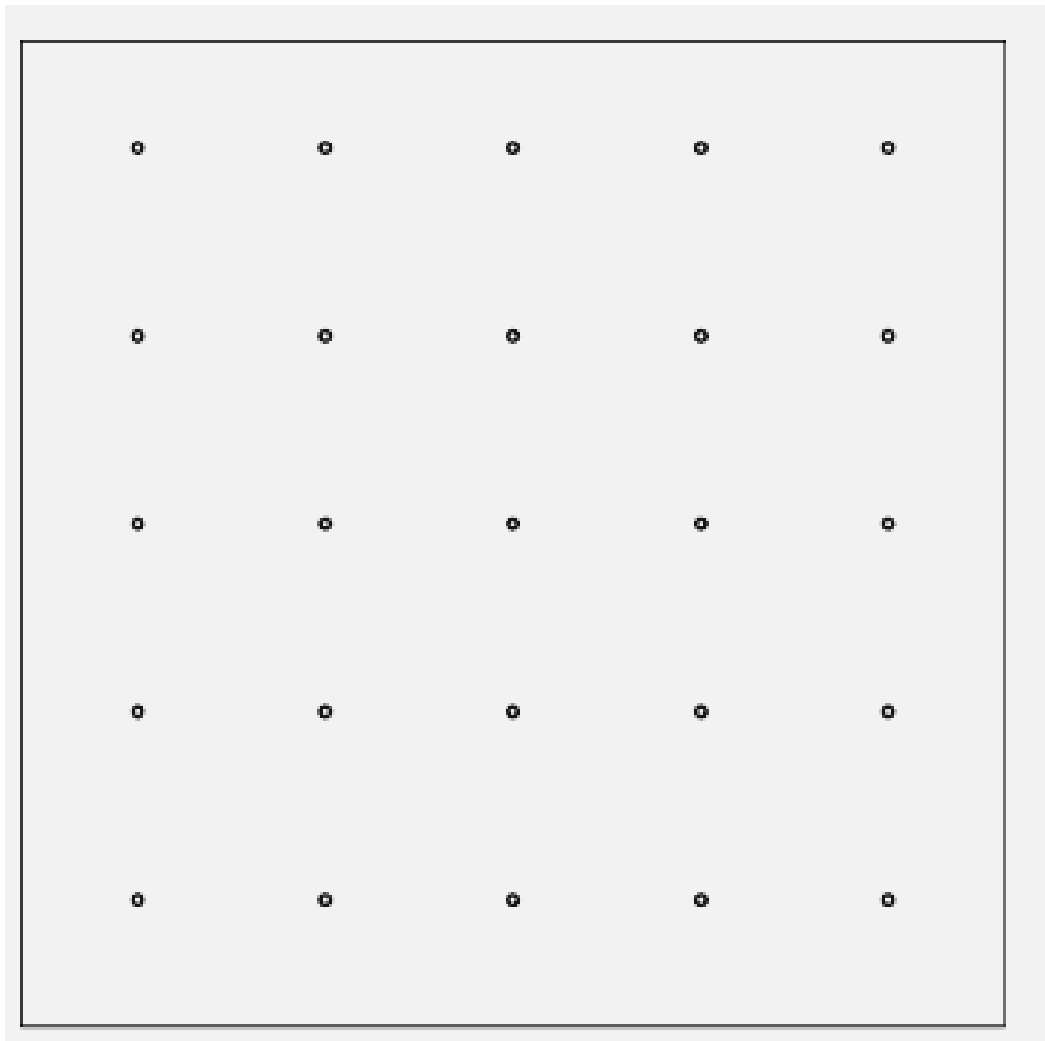


# Geoboard Exploration

- Make a 3-sided polygon with one square corner and no two sides the same length.
- Make a 4-sided polygon with no square corners but with two pairs of parallel sides.
- Make a 4-sided polygon that has exactly one pair of parallel sides and only one pair.

# Geoboard Exploration

- Make a 5-sided polygon with exactly one pair of parallel sides.
- Make a 6-sided polygon with one pair of perpendicular sides.
- Make a polygon that is not square but looks the same no matter on which side you rest the geoboard.



# Geoboard Exploration

Make a shape on your geoboard that follows these rules:

- It must be made with one rubberband.
- The rubber band must not cross over itself.
- The shape must stay in one piece when you cut it out.

# Mouse Shapes



Ellen Stoll Walsh

*Creator of Mouse Paint and Mouse Count*