

The Education Fund



IMPACT II IDEA PACKETS
Developed by
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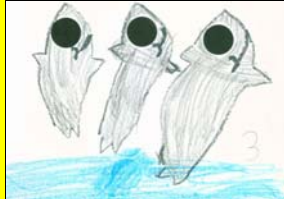
Pre-number Concept Stories

The Lost Button
from *Frog and Toad Are Friends*
by Arnold Lobel



Counting Stories

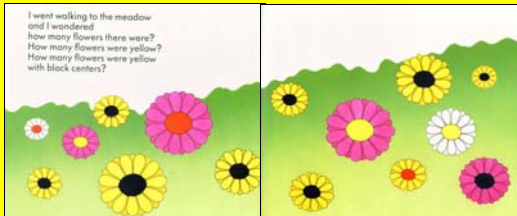
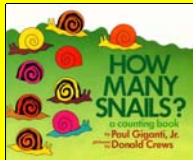
Ten Black Dots by Donald Crews



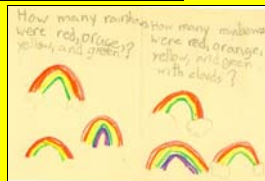
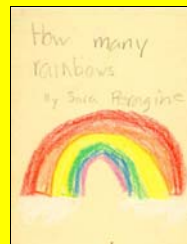
How Many Bugs in a Box?
by David Carter



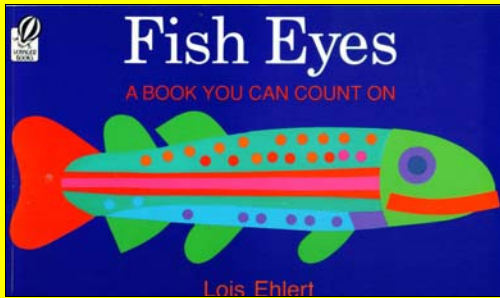
How Many Snails by Paul Giganti



Student Sample



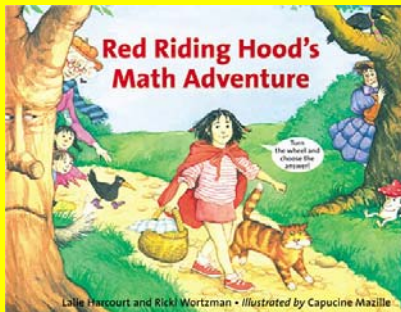
Fish Eyes by Lois Ehlert



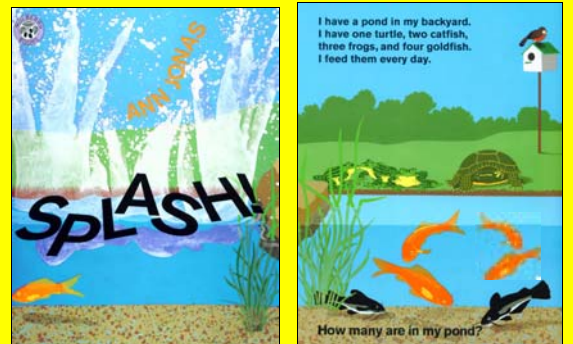
Student Sample



Red Riding Hood's Math Adventure by Lalie Harcourt and Ricki Wortzman



Splash by Ann Jonas



Each Orange Had Eight Slices by Donald Crews

On My Way
by Elliot Rodstein
On my way to St
Louis I saw 10
insects. Each
insect had 6 legs.
Each leg had 3
hairs. How many
insects, legs and
hairs did I see?
The answer is
 $10 \times 6 = 60$,
 $60 \times 3 = 180$,
 $10 + 60 + 180 = 250$.



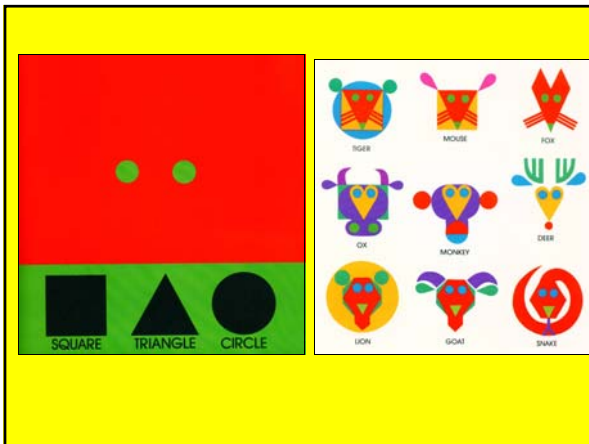
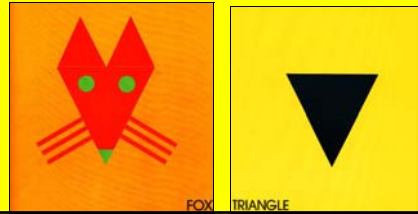
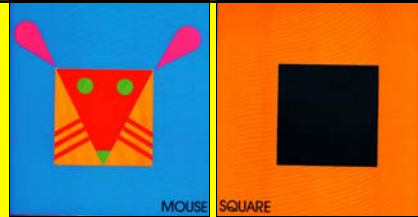
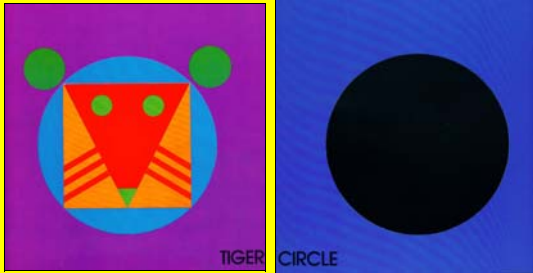
Fair Share

- Read aloud The Doorbell Rang
- Give each child 12 bite-size cookies and a paper plate. Explain to the children that they will be sharing their cookies with their friends.
- Have children create equal groups of cookies for 2 friends,
- 3 friends, 4 friends, 6 friends and 12 friends.
- Record the groupings on a class chart or on the board.



Number of Children	How many cookies will each child get?	Mathematics Sentence
2		
3		
4		
6		

Geometry Stories Color Zoo by Lois Ehlert



Student Sample



Greedy Triangle by Marilyn Burns

Materials

- Paper squares, scissors, rulers (straight edge), pencils, glue

What to Do

- Read aloud the Greedy Triangle by Marilyn Burns
- Give each student several paper squares and scissors.
- Have students cut off one corner from the square. Identify the new shape. (pentagon)
- Cut off another corner from the square. Identify the new shape. (hexagon)
- Cut off another corner from the square. Identify the new shape. (heptagon)
- Cut off another corner from the square. Identify the new shape. (octagon)
- Continue by having students cut off sections and identify the new shape.
- Is it possible to continue cutting corners until a circle is formed?

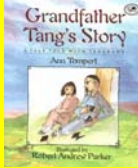


Grandfather Tang's Story by Ann Tompert

This activity is designed to reinforce the understanding of geometric attributes of 2-dimensional shapes.

Materials

- Scissors, 8" x 8" paper squares, story, glue, construction paper



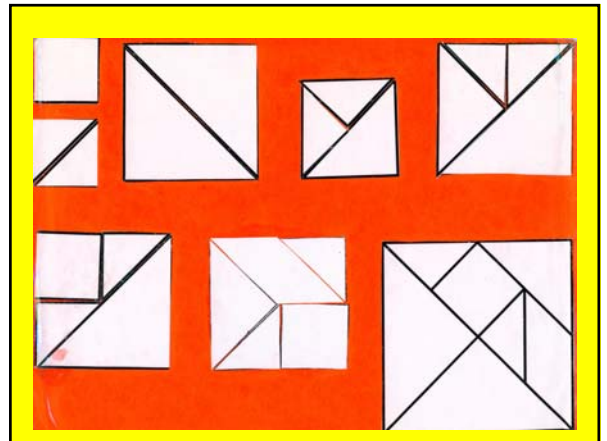
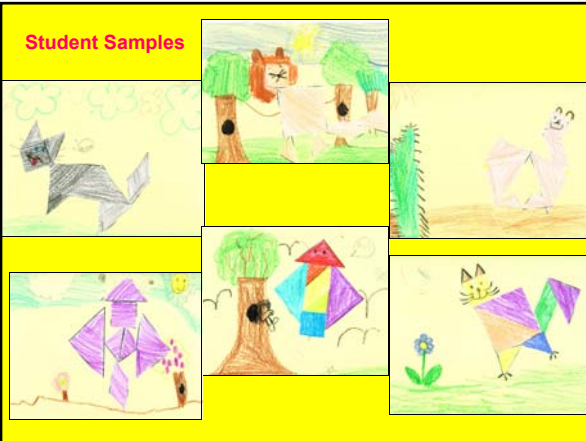
What to Do

- Read aloud: **Grandfather Tang's Story** by Ann Tompert. (ISBN 0-517-57487-X)
- Have students create their own tangram creatures using their tangram pieces.
- Have students use their tangram pieces to create various polygons. For example:
 - Create a square using 1, 2, 3, 4, 5, 6, or 7 pieces.
 - Create a rectangle using 1, 2, 3, 4, 5, 6, or 7 pieces.
 - Create a triangle using 1, 2, 3, 4, 5, 6, or 7 pieces.
 - Create a pentagon using 1, 2, 3, 4, 5, 6, or 7 pieces.

Student Sample



Student Samples



Fraction Stories Picture Pie and Picture Pie 2 by Ed Emberley



Student Activity

- Have students create a bird as shown by Ed Emberley using the half circle, a quarter of a circle, and two eighths of a circle.



- Have students create additional fractional designs. Students may choose to use a triangle, square or rectangle to create their designs.



This fish was created using two squares. Each square is folded along the diagonal to create a triangle. The triangle is folded in half, then in half again. Each square has 8 triangular regions. Cut the triangles out and create the fish. This fish uses 13 triangles. When compared to the original squares this fish represents $1 \frac{5}{8}$.

Money Riddles

- There are three coins.
 - They are worth 45 cents.
 - What are the coins?
- There are five coins.
 - They are worth 57 cents.
 - What are the coins?



- There are six coins.
 - They are worth 10 cents.
 - What are the coins?
- There are three coins.
 - They are worth 60 cents.
 - What are the coins?



Student Created and Shared Mathematics Stories

