

Algebra/Geometry Institute Summer 2008

Quadrilateral Clues

Faculty Name: Bertha Tucker

School: Carver Upper Elementary School, Indianola, MS

Grade Level: 4th and 5th



- 1 Teaching objective: Identify, describe, compare, and classify quadrilaterals.
- 2 Instructional Activities: The teacher will extend lesson 1, “Roping In Quadrilaterals.” Use the guessing method to identify, describe, compare, and classify quadrilaterals. The teacher will give students clues and have them work in groups and come up with one or more figures that fit the clues (Attachment 1). Students should draw answers on typing paper. For students who cannot name and draw quadrilaterals without looking at a figure, provide a copy of Attachment #2. Students will also work in groups and come up with clues that describe a particular quadrilateral on their own. A presenter from each group will read the cards using the clues and have the other groups decide on the quadrilateral that fits the clue.

Materials and Resources

- Typing paper for drawing answers to teacher clues
- Straight edges
- Attachment 1 (for teacher)
- Index cards to write clues (clues on front, answer on back)

Resources

Navigating through Geometry in Grades 3-5. Reston VA:
The National Council of Teachers of Mathematics, Inc., 2001.

pp. 22-25.

Elementary and Middle School Mathematics. Grades 3-5
Pearson Education, Inc. 2004. pp. 35-36.

4 Assessment

- Teacher's observation during work time.
- Grade index cards; the clues should be original and the answer should be correct.

Attachment #1

Teacher's questions and answers sheet

* Questions	Answers
I have two pairs of opposite sides congruent.	All parallelograms (rectangles, rhombi, squares)
I have two pairs of adjacent sides congruent.	Kites, squares, rhombi
I have at least four right angles.	Rectangle, square
I have all sides the same length.	Rhombi, squares
I have at least one acute angle.	Trapezoids, kites
I have at least one set of parallel sides.	Trapezoids, all parallelograms (rectangles, rhombi, squares)

Attachment #2

For students who cannot draw the figures without seeing the figures, they can use the figures below as a reference.

