

## TEACHER PAGE

**Lesson: Rectangles with Rikki Teacher-Author: Donna Miller**  
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**New Arizona math Strand 4 Geometry and Measurement Grades K-1**  
**Articulated 4MK1-01** Use the words vertex and side when describing simple two-dimensional geometric shapes; **4M11-02** Compare attributes of two-dimensional shapes (square, rectangle, triangle and circle).

**Old Arizona Math Standard 4 Geometry Foundations 1 Grades 1-3**  
**4MF1-PO1** Identify two-dimensional shapes by name and attribute

### Materials and Bibliography:

Attribute and Pattern blocks, old magazines with lots of pictures

Relevant Website: URL <http://www.proteacher.com>

*Ten Black Dots* by Donald Crews

*The Village of Round and Square Houses* by Ann Grifalconi

**Learning Objectives:** The student will be able to:

- name two-dimensional shapes
- recognize two-dimensional shapes around you
- explain the attributes of two-dimensional shapes, particularly Rikki.

### Overview:

Learning to say, read, spell and write the name of recognizable shapes is very important to early math success. When students recognize a rectangle, they should be able to write its name. Teachers can facilitate recognizing and identifying shapes by making the students aware of the shapes in their environment, such as home, classroom, and in the world around them. In TRY, students spell the word “rectangle” and recognize the shape by its four line segments and four right angles. This lesson has English, Navajo and Spanish narrations and scripts. Find a Spanish/English math dictionary: [www.math2.org/math/spanish/eng-spa.htm](http://www.math2.org/math/spanish/eng-spa.htm)

### Classroom management:

Place students in groups of four desks and point out that they make a rectangle.

**Keywords:** Rectangle, name, identify, line segments, right angles

### Engaging Students:

Read the book *Ten Black Dots* and use it as a pattern book for *Ten Green Rectangles*. Use the book to preview the attributes of a rectangle, and encouraging students in the importance of knowing how to say, spell and write the word rectangle.

### Follow-up:

Give students magazines with lots of pictures to find rectangles shapes. Take neighborhood and schoolyard walks and discover rectangle shapes. Organize a treasure hunt to find rectangle shapes. Research the many places a person sees rectangles in the environment. Student partners talk and share in the TALK ABOUT IT!

### Assessment:

Students demonstrate identifying the name and attributes of rectangles: 2 pairs of parallel sides and 4 right angles by correctly filling in the blanks.

