



TEACHER PAGE

Lesson: Building Rectangles

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New Arizona Math Strand 4 Geometry and Measurement Grade 5

Articulated 4M51-02 Draw two-dimensional figures by applying significant properties of each. (e.g., Draw a quadrilateral with two sets of parallel sides and four right angles.)

Old Arizona Math Standard 4 Geometry

Grades 4-8

4ME1-PO3 Draw or build two-dimensional shapes by applying significant properties of each (e.g., draw a rectangle with two sets of parallel sides and four right angles.)

Learning Objectives: Students will be able to:

- build a two-dimensional rectangle from a listing of its properties
- identify a rectangle by its properties
- explain and demonstrate the properties of a two-dimensional rectangle as a parallelogram.

Overview and Content:

The properties of rectangles are given and illustrated. Students will have opportunity to connect rectangles to shapes in buildings. Students will try building rectangles on the screen, then after a review, will build a rectangular shaped tree house.

Engaging Students:

Give students an opportunity to identify quadrilaterals and parallelograms and give example of both. The question to answer is why would rectangles fit with either of these shape classifications, or one, or both. This lesson will give clues as to the family and group classification of a rectangle.

Follow-up:

The SO WHAT! contains several photographs for students to see important uses of rectangles. On the TALK ABOUT IT! math forum web site is opportunity for students to ask questions about rectangles of Dr. Math. It is suggested students and their classmates check for answers after several days have passed. DIG DEEPER takes students to a web site with “dynamic” or interactive parallelograms and rectangles. On the site you may have to scroll downward a wee bit to get to the fun. Students need to answer the questions.

Assessment:

Before the “check for understanding” interactive exercise, there is a review of the properties. Students will build a virtual tree house. The tree house contains many rectangles just like the buildings seen on SO WHAT!

