

Name: Earl Chiddix

Grade Level/Subject: 3/Math

Topic: COOL TOOLS TO SOLVE CHALLENGING WORD PROBLEMS--Measuring Length and Width of Rectangles; Identifying the terms length, width, and congruent.

Objectives (P.A.S.S.): Standard 4: 2a;2c;3--Students will be able to measure using a standard 12 inch ruler the length and width of various rectangles with 95% accuracy.

Materials Used: "A House Is A House For Me" by Mary Ann Hoberman-illustrated by Betty Fraser-published by Scholastic-ISBN 0-590-45306-8--Common 12 inch ruler- construction paper-teacher made worksheet (included)--inch colored tiles

Introduction: Read the book "A House Is A House For Me" by Mary Ann Hoberman-illustrated by Betty Fraser-published by Scholastic-ISBN 0-590-45306-8. While reading, emphasize the rectangular shaped houses mentioned--must use expression!

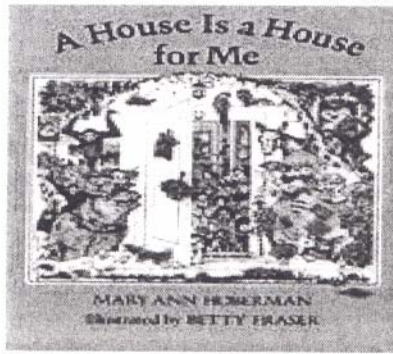
Instructional process: After reading, discuss the "emphasized" houses. Ask the students what all these houses had in common. (Rectangular Shape). Using inch colored tiles, have each student build a rectangular house on their desk. Then have students draw, using their 12 inch rulers, being careful to measure exact inches and cut out rectangular representations of the houses. The teacher will monitor everyone's ability to measure exact inches. After the rectangles are cut out, pair up students to measure each other's rectangles. After this pre-lesson activity, the teacher will elaborate and model, on the classroom viewing board (overhead-Smart Board-white board-chalkboard, etc.) using the terms length, width and congruent, students will identify the lengths of rectangles and discover whether their predictions of "equal lengths and widths of a rectangle are congruent" are true or false. The goal is to relate this information to a word problem, so now with the information the students have, model this word problem for the students: Baby Brother is building a pen for his toy pig. His toy pig is 1 inch wide and three inches long. How big would the pen need to be just to hold the pig? How big does the pen need to be to allow the pig some exercise? (Critical Thinking) Draw the two pens for Baby Brother's toy pig.

Closure: A work sheet with various sizes of rectangles will be given to the students to identify length and width and opportunities for the student to draw rectangles using specified lengths and widths. Also, there will be word problems to apply what has been learned. This work sheet is guided practice and will be monitored for success.

Assessment: A work sheet with similar problems as the first work sheet. Which will be graded.

Modifications/Accommodations: Because of time restraints, (45 minutes per day) I used two days to complete this lesson. I read the story both days, keeping the interest alive.

Reflection: I thought this lesson went really well. The colored tiles worked as well as I thought they might. I noticed the students reciting parts of the book during the day. I even observed several students measuring various objects on and near their desks.--Isn't that what we want! I am one who tries to hurry along, and challenge students, but with this lesson, I found I needed to apply the "brakes" and slow down to accomplish the objective. You see, the students were enjoying themselves and I haven't seen that in a long time during math! It was wonderful!

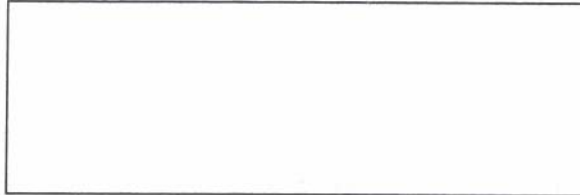


Name _____

Measuring Rectangles

Measure the following rectangles to the nearest inch. Label the width and length.

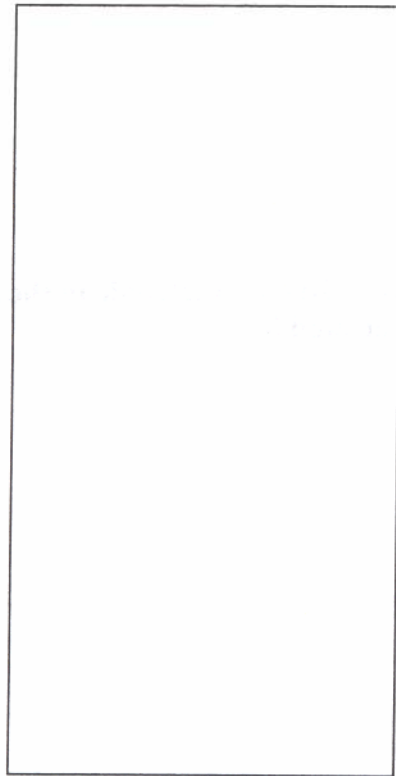
1.



_____ inches

_____ inches

2.



_____ inches

_____ inches

Directions: Draw rectangles using the following measurements. Label the length and width of each rectangle.

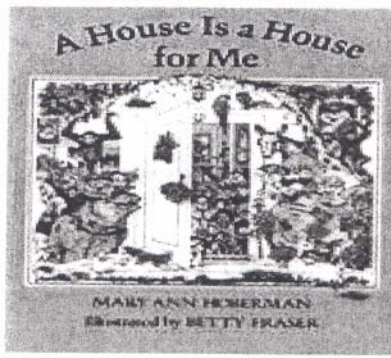
3. Draw a rectangle with the length 5 inches and the width 2 inches

4. Draw a rectangle with the width 1 inch and the length 7 inches.

Work this problem:

A five inch long, two inch wide bug needs to build a bed. Draw a rectangle to show how the bug will have a bed with a one inch space all around it.

Test

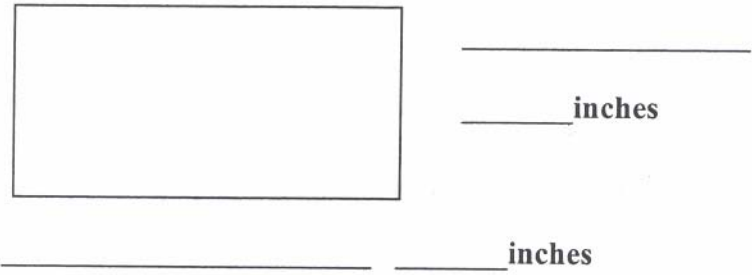


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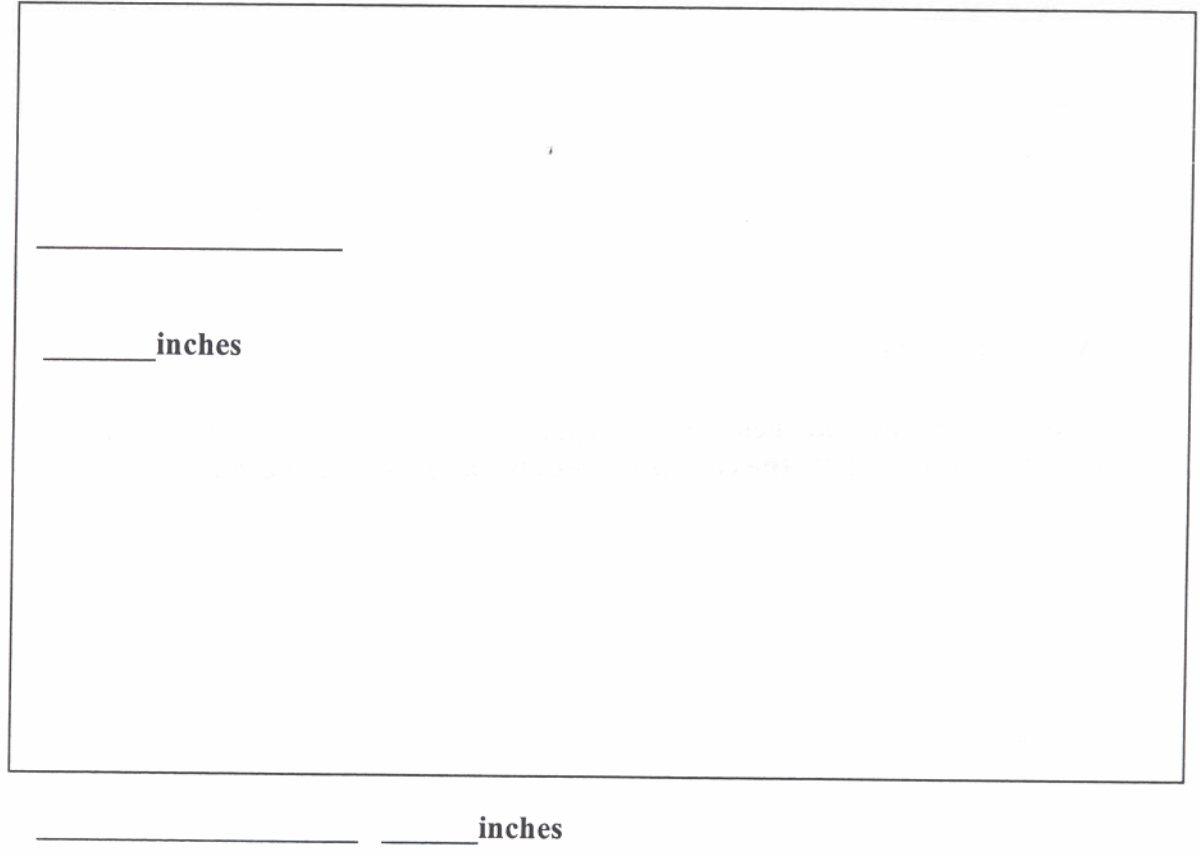
Measuring Rectangles

Measure the following rectangles to the nearest inch. Label the width and length.

1.



2.



Directions: Draw rectangles using the following measurements. Label the length and width of each rectangle.

3. Draw a rectangle with the length 6 inches and the width 1 inch.

4. Draw a rectangle with the width 2 inches and the length 6 inches.

Work this problem:

A three inch long, one inch wide caterpillar needs to build a cocoon. Draw a rectangle to show how the caterpillar will fit snugly in the cocoon.