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***INTRODUCTION TO AREA/PERIMETER (DAY 2)***

ACTIVITY: Perimeter is 24 units… What is the area?

# Materials needed

* Square Tiles (one inch)
* -inch block graph paper

# Hypothesis: If two figures have the same perimeter, then…

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# Instructional activity

a. Create as many rectangles as possible that have a ***perimeter*** of 24 inches. After you have made one, have a neighbor double check the perimeter for you.

b. What is the area of each figure? (Count the squares)

Draw each representation on the graph paper and write the perimeter and area for each figure using the graph paper on the back of this sheet.

AFTER ACTIVITY CONCLUSION QUESTIONS: (Complete after you are done)

What is perimeter?

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What is area?

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Which figure had the biggest area? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Why do you think this is so?

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Perimeter is 24…what is the area?

Use the space wisely to fit as many of your ideas onto this paper as possible.

Don’t forget to label each figure with its area.



Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_Page\_\_\_\_\_\_

INTRODUCTION TO AREA (DAY 3)

1. Construct a rectangle that is 4 x 2 on your geoboard and find its area. Record the area and prove your thinking on the geoboard dot paper.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you found it:

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1. Construct a right triangle with a **height** of 2 units and a **base** of four units. *Examine* it carefully and find its area. Draw a picture and prove you thinking in the space provided.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Explain how you found it:

Build this figure and find its area by counting squares.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you found it:



1. Form a 2 by 4 rectangle and construct the figure below within it. Use the rectangle to find its area of the figure and record.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you found it:

1. Construct this square on your geoboard, find its area, and record.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you found it:



1. Construct this square on your geoboard, find its area, and record.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain how you found it:



1. How do you find the area of a rectangle? What is the formula?

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1. What did you discover about finding the area of a triangle?

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1. CHALLENGE!

Construct this triangle on your geoboard and find its area.

AREA:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain your thinking:

