Three LEGO bricks are positioned at the top of the page: a yellow 1x3 brick on the left, a blue 1x2 brick in the center, and a dark green 1x6 brick on the right.

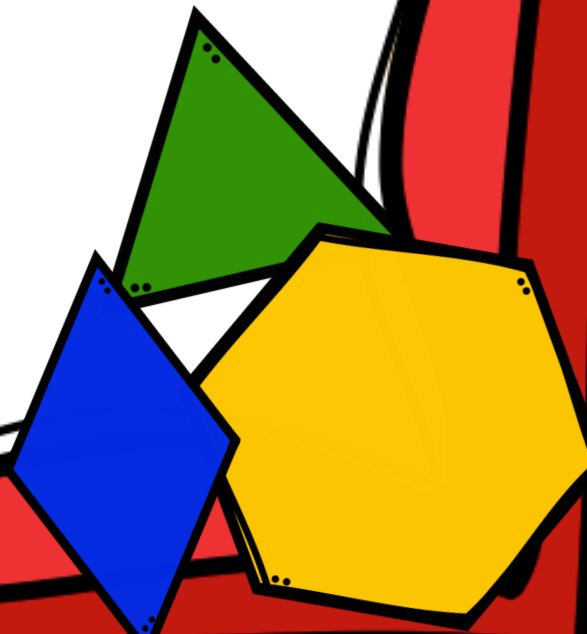
100th Day STEM Challenge:

Design with 100 LEGO[®]
bricks and 100 pattern
blocks

A green circular badge with a black scalloped border and a pattern of small green circles. It contains the text '2 challenges!' and 'Use with grades K-5'.

2
challenges!

Use with
grades
K-5

Three pattern blocks are located in the bottom right corner: a green triangle, a blue square, and a yellow hexagon.

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The '100' LEGO Challenge:

Directions: Choose 100 LEGO® bricks, any size and color combination you'd like. Then build a design or structure of your choice.

Describe your LEGO® creation and why you built it the way you did:

Measure it:

My design is _____
inches tall.

My design is _____
inches wide.

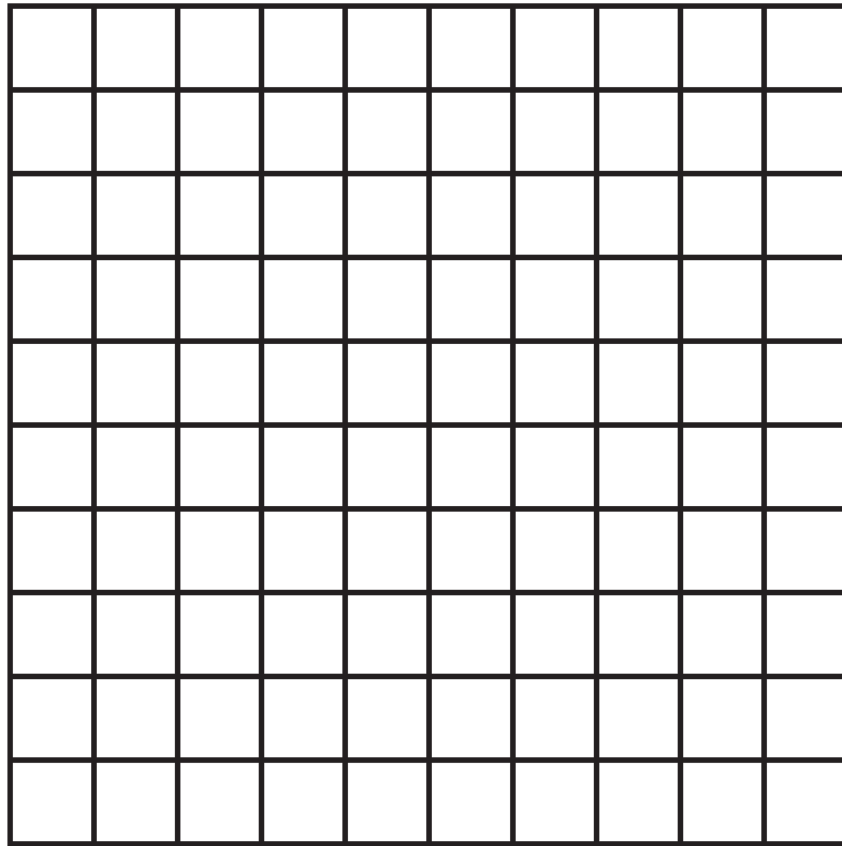
My design weighs
_____ ounces

Count it:

I used _____ red bricks
I used _____ yellow bricks
I used _____ blue bricks
I used _____ green bricks
I used _____ white bricks
I used _____ black bricks
I used _____ gray bricks
I used _____ brown bricks
I used _____ other bricks
For a TOTAL of 100 bricks!

The '100' LEGO Challenge:

Graph it: Color the graph to show how many you used of each color



Red Yellow Blue Green White Black Gray Brown Other

Sketch your design below and find the total perimeter:

Total Perimeter: _____

The '100' Pattern Block Challenge:

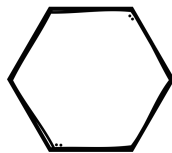
Directions: Choose 100 pattern blocks and create a unique design.
Then complete the questions below.

Sketch it: Sketch your pattern block design

Count it: Count the total number of each block type



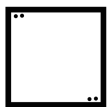
= _____



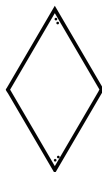
= _____



= _____



= _____



= _____



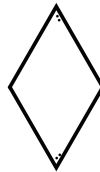
= _____

The '100' Pattern Block Challenge:

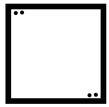
Analyze it: Determine the fraction, decimal and percent of the total you used for each type of block



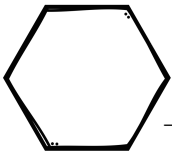
Fraction: Decimal: Percent:

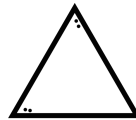


Fraction: Decimal: Percent:









Discuss it: Answer the following questions.

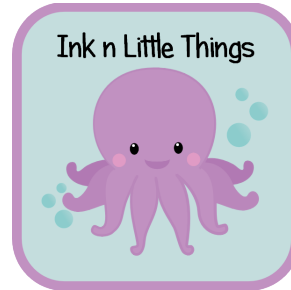
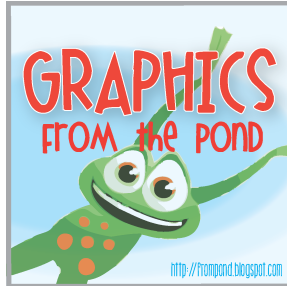
1. Is your design symmetrical? How do you know? _____

2. Which block did you use the most? The least? What is the difference between the two? _____

3. What is the total percentage of squares and triangles in your design? _____

Thank You!

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