Math from Home

June 22-26

LEGO® Barrier Game

Materials: Matching set of Lego blocks (i.e. whatever blocks one player has the other player needs an identical set).
A hardcover book or anything that can act as a barrier between the two players.

Getting Started: Player 1 secretly uses all of the lego to create a shape of some sort. Once they are finished they will describe to player 2 what they need to do in order to build the same structure.
Both players Lego are not visible to the opposite player.

Goal: Describe what you have built to the other player so that they are able to build the exact same structure you have.

Make it simple OR make it difficult.

- Include more/less Lego pieces to increase or decrease the difficulty.
- The older child or adult playing the game should start as the describing player. That way the younger player can hear different strategies on how to describe.

- *"What words do you think will be helpful for this activity?" (This is a great question to ask prior to playing.)*
- *"Can you say that again another way?"*
- *'"What would you do differently next time you played?"*

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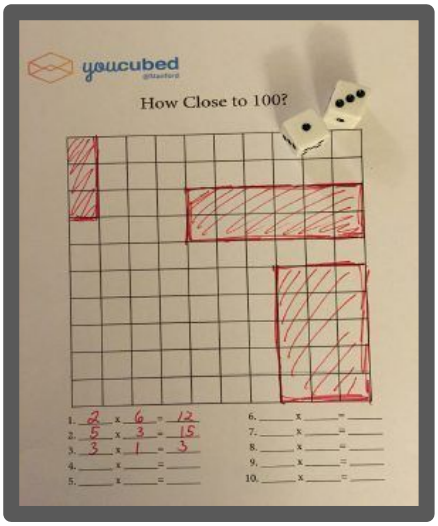
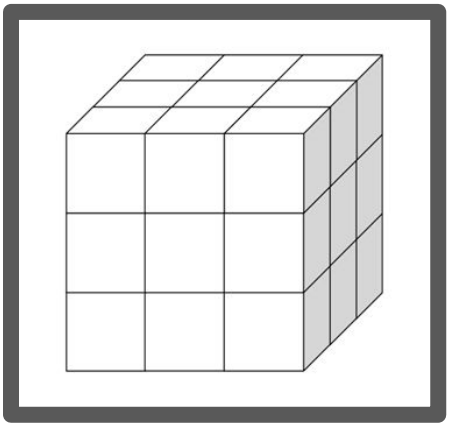


How Close to 100
Materials: 2 colours of crayons or markers, a 10 x 10 grid with 100 squares, 2 6-sided dice
Getting Started: Draw a 10 x 10 grid with 100 squares. Player 1 rolls the 2 dice. They must draw a rectangle with those dimensions ex. 5 and 4, you must draw a 5x4 rectangle somewhere on the grid. Player 2 does the same, but must draw their rectangle in the remaining open space on the grid.
Goal: Get the 10 x 10 grid as full as possible, with the fewest blank spaces left.

The Painted Cube
Materials: piece of paper, pencil
Getting Started: Imagine a cube that has dimensions of 3 x 3. (See image). This cube was dipped in blue paint. Your goal is to figure out how many of the individual cubes that:

a) Have 3 faces with paint on them
b) Have 2 faces with paint on them
c) Have 1 face with paint on it
d) Have no paint on any faces

Goal: Describe the amount of paint on the cubes within the cube**.**
Extension: How would this work with a 2x2 cube? A cube that is 4x4?



Math Coach Message:
Math exists all around us. It can be found in the web of a spider, the rhythm and beat of a song, the measurements of ingredients in a recipe, the angles in a tennis match, and the patterns in a juggling act. What ways do you see math around you? What activities do you do on a daily basis that involve math?