

Array game

Materials: One colored pencil per person, one sheet of graph paper per person, and one pair of dice per group.

1. In groups of three or two, take turns rolling the dice. Color in an area on the grid indicated by the dice. *For example, if you roll a 2 and then a 3, color a 2 x 3 rectangle.*
2. Write the number of squares in the rectangle to indicate the product of the two sides.
3. The first player to color in all the squares in their grid wins.
4. As the grids fill up, you will roll totals that will not fit on the grid, you can break up the factors if you choose. *For example, you might identify that 6 x 4 is the same as 2 x 4 and 4 x 4.* This implicitly reinforces the distributive property of multiplication.