Fac-Tac-Toe

Object: Be the first player to get 4 markers in a row.

Materials: 20 Counters each of 2 different colors
            Game board

1. Players play rock paper scissors to determine who is Player A.
2. Player A places a marker on one of the numbers below the game board.
3. Player B places a second marker on any number below the game board
   (including the number already marked). Player B then computes the product
   of the two numbers and places one of his markers on that number on the
   game board.
4. Player A moves ONE of the markers below to game board and computes the
   new product, and places a marker on that number on the game board.
5. Play continues this way until one of the players has 4 markers in a row on the
   game board going vertically, horizontally, or diagonally.

Discussion Questions:
1. What numbers are listed on the game board?
2. How would the game board change if you listed different numbers beneath it?
3. What strategies did you use to play the game?

Extension
Have students create their own game board by choosing the numbers to be listed
beneath the board and listing the values that will need to be on the board. Student
boards may be of different dimensions.