

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.

1	2	3	4	5	6
7	8	9	10	12	14
15	16	18	20	21	24
25	27	28	30	32	35
36	40	42	45	48	49
54	56	63	64	72	81

1 2 3 4 5 6 7 8 9