**Tic-Tac-Toe Products**

This is a great game with lots of strategy. The game provides a great way to practice and build fluency in single-digit multiplication. If a player needs support, tools like calculators and multiplication tables can be provided. We have also included two versions of the game board, one 6 x 6 grid and the other an 8 x 8 grid. During and/or after playing students can discuss strategies. During play students can justify their product at each turn through words, symbols or pictures.

**Number of Players:** 2

**Materials:**

* Two markers for the bottom row of factors (for example, paper clips)
* Two sets of different markers for each player to cover each product (for example, pennies and nickels)
* Tic-Tac-Toe Products Game board

**Directions:**

* Player X and Player O select one factor, 1 – 9, at the bottom of the page and place one of the markers on that factor.
* Player X may move only one of the two markers to a new factor. Player X then places a marker on the grid covering the product of the two factors.
* Player O may move only one marker to make a new product and place their marker on the grid. The markers can both be placed on the same factor. For example, 6 x 6 = 36.
* Players alternate moving one factor marker at a time and continue placing their markers on the grid until a player has marked four products in a row. After the game players should discuss their strategies.

**Tic Tac Toe Products**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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**

**Tic Tac Toe Products II**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **81** | **16** | **63** | **12** | **45** | **8** | **27** | **4** |
| **32** | **63** | **24** | **49** | **16** | **35** | **8** | **21** |
| **72** | **24** | **18** | **40** | **12** | **24** | **6** | **56** |
| **40** | **54** | **30** | **42** | **20** | **30** | **10** | **18** |
| **45** | **48** | **35** | **36** | **25** | **24** | **15** | **12** |
| **64** | **27** | **48** | **21** | **32** | **15** | **16** | **9** |
| **36** | **56** | **28** | **42** | **20** | **28** | **12** | **14** |
| **72** | **18** | **54** | **14** | **36** | **10** | **18** | **6** |

**1 2 3 4 5 6 7 8 9**