

# 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,  $6 \times 6 = 36$ .
- 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

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

**1   2   3   4   5   6   7   8   9**

## Tic Tac Toe Products II

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

**1   2   3   4   5   6   7   8   9**