



# Multiplication Pathways

Game 31, pg. 80 (Foundational Fact Sets - Multiplication and Division)

**Game Goal:** Work as a team to make a path across the gameboard.

**Materials:** one shared Multiplication Pathways gameboard, dry-erase marker, two paper clips

### How to Play (2 players):

1. Player 1 picks two different numbers at the bottom of the shared gameboard to make a product in the first column and places paper clips on those two numbers.
2. Player 1 marks that product in the first column with an “x” on the gameboard and records the multiplication equation on the recording sheet.
3. Player 2 decides which of the two paper clips to move to form a new product that is to the right (connected either horizontally or diagonally) of the marked space. The spaces must be touching and the new space must be in the next column.
4. Player 2 marks the product on the board with an “x” and records the multiplication equation on the recording sheet.
5. Both players continue taking turns as they move across the board. If a touching product in the next column cannot be formed, players erase the board and go back to start.
6. Gameplay ends when players have successfully made a connected pathway from “start” to “finish.”

### Game in Action:

*I will move the clip from the 5 to the 3. My equation is  $2 \times 3 = 6$  and I'll cross out the 6.*

|                       |              |               |              |               |    |    |                            |
|-----------------------|--------------|---------------|--------------|---------------|----|----|----------------------------|
|                       | 0            | 40            | 20           | 3             | 2  | 5  |                            |
|                       | 8            | 10            | 5            | 30            | 0  | 10 |                            |
| S<br>T<br>A<br>R<br>T | <del>5</del> | <del>20</del> | <del>8</del> | 50            | 6  | 20 | F<br>I<br>N<br>I<br>S<br>H |
|                       | 10           | 4             | 0            | <del>10</del> | 30 | 12 |                            |
|                       | 0            | 1             | 2            | 3             | 4  | 5  |                            |



Recording Sheet

| Player 1         | Player 2          |
|------------------|-------------------|
| $1 \times 5 = 5$ | $4 \times 5 = 20$ |
| $2 \times 4 = 8$ | $2 \times 5 = 10$ |
|                  |                   |

**Variations:** On boards C-F, players may place their clips on the same factor to make squares. To use the blank “Foundational Facts” board, fill spaces with foundational fact products. To use the “Any Factors” gameboard, write in a factor list (bottom row) and fill with the related products.