

Playing the Product Game

NAME _____

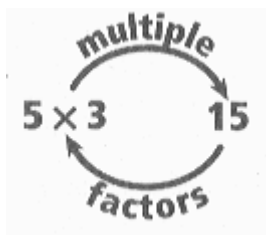
Play the Product Game several times with a partner. Look for interesting patterns and winning strategies. Make notes of your observations.

1. Suppose one of the paper clips is on 5. What products can you make by moving the other paper clip?

The products you listed are multiples of 5. A **multiple** of a whole number is the product of that number and another whole number.

If a number is a multiple of 5, then 5 is a factor of that number. These four sentences are all ways of expressing $5 \times 3 = 15$:

- 5 is a factor of 15.
- 3 is a factor of 15.
- 15 is a multiple of 5.
- 15 is a multiple of 3.



2. List multiples of 5 that are not on the game board.
3. Suppose one of the paper clips is on 3. What products can you make by moving the other paper clip?
4. List five multiples of 3 that are not on the game board.