



The Factor Game

Game 36, p. 98 (Derived Fact Strategies - Multiplication and Division)

Game Goal: Get the highest score.

Materials: one shared gameboard (1-30 or 1-49), transparent counters in 2 colors (or use 2 colors of dry-erase markers if board is laminated), one shared recording sheet

How to Play (2 players):

1. Player 1 selects a number on the gameboard and covers it. This will be Player 1's score for Round 1. They record their selected number and score in the white spaces. *In the example below, Player 1 selected the number 10, scoring 10 points.*
2. Player 2 covers all the factors of Player 1's number, adds the factors together for their Round 1 score, then records the factors and score on the recording sheet in the gray spaces. *In the example below, Player 2 covered 1, 2, and 5, scoring 8 points.*
3. Player 2 starts Round 2 by selecting an uncovered number. *In the example below, Player 2 selected 21 and scored 21 points.*
4. Player 1 then covers all the available factors of the selected number, records them on the recording sheet and finds the sum for their score. *In the example below, Player 1 covers 3 and 7, scoring 10 points.*
5. Play continues in this manner with players taking turns selecting numbers and the other player covering the available factors.
6. The game ends when all numbers are covered or time is called. The greater sum of points wins.

Game in Action:

Round	Selected Number	Factors	Player 1 points	Player 2 points
1	10	5, 2, 1	10	8
2	21	7, 3	10	21
3				
4				

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

If in Round 3 Player 1 chooses a number with no factors remaining, such as 29, Player 2 will get 0 points.

Variations: Extend or shorten the range of numbers on the gameboard.