



Factors and Products

Players: 2

Students practice multiplication facts and build an understanding of the commutative property of multiplication.

Materials

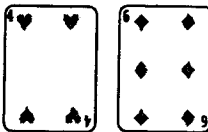
- one shuffled deck of cards with tens, jokers, and face cards removed
- Factors and Products Game Sheet (page 18), one per player
- small markers that fit in the boxes on the game sheet, such as buttons or beans (transparent plastic markers work well)

The Way to Play

- One player stacks the cards facedown in a pile.
- Player 1 draws two cards. These are the factor cards. The player locates the factors on the top and left side of the game sheet. The player places a marker in the box where the two factors meet (the product) and places the two factor cards in a discard pile. A player may place only one marker per turn.
- Player 2 takes a turn in the same way.
- Players continue to take turns. If a product box has been covered, a player may not place another marker on it. If a player is unable to place a marker on a turn, the player places the two factor cards in a discard pile and the turn ends.
- When all the cards have been played, a player shuffles the discard pile and stacks the cards facedown in a pile.
- The first player to cover three products in a row—horizontally, vertically, or diagonally—wins.

Example:

Player 1 draws two cards.



The player locates the factors 4 and 6 and covers the product (24) with a marker.

The player may place the marker on either product box.

Factors and Products Game Sheet

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

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