

Unaligned Products

Topic: Mental Multiplication and Division

Object: Avoid covering three numbers in a row.

Groups: 2 players or pair players

Materials for each group

- *Unaligned Products A* gameboard, p. 61
- different kind of markers for each player
- calculator (optional)

Tip Consider using the more challenging factor choices on Unaligned Products B gameboard, p. 61.

Directions

1. The first player selects and announces two factors (one from each row in the “Choices” box). After the factor choices are announced, players compute the product with paper and pencil or with a calculator. The first player covers the resulting product on the gameboard with her or his marker.
2. The other player selects and announces two factors whose product is computed by both players. The resulting product is covered by that player’s marker.
3. Players continue alternating turns, trying to avoid aligning three markers in a row. Players must select two factors that result in a product not yet covered. This might require more than one attempt.
4. The first player forced to have three markers in a row horizontally, vertically, or diagonally loses.

8847	2168	1652	4878
3932	944	3213	2710
1180	2124	1836	6881
4915	3794	4131	2295

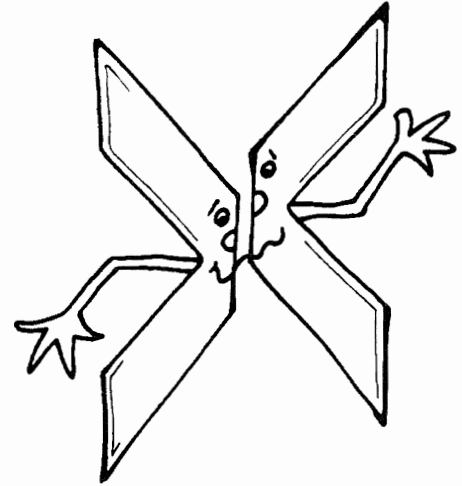
Making Connections

Promote reflection and make mathematical connections by asking:

- What strategy helped you avoid lining up your markers in a row?

Unaligned Products A

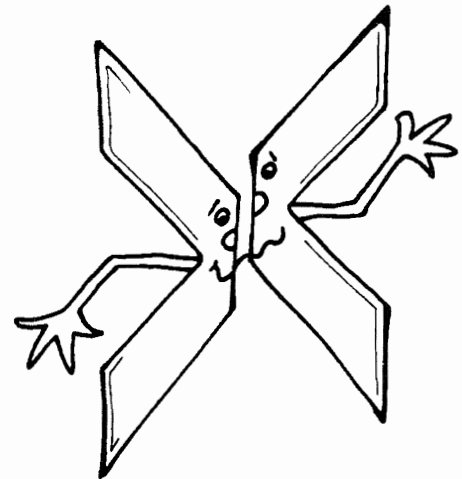
8847	2168	1652	4878
3932	944	3213	2710
1180	2124	1836	6881
4915	3794	4131	2295



Choices			
4	5	7	9
236	459	542	983

Unaligned Products B

6408	2148	6360	10,680
4272	7240	2896	5874
3982	4344	1969	15,900
9540	1432	3580	8745



Choices			
8	11	12	20
179	362	534	795