

Finding Differences



Topic: Subtraction to differences of 9

Object: Cover four numbers in a row with your counters.

Groups: 2 pair players or 2 players

Materials for each group

- *Finding Differences* Gameboard, p. 100
- 2 set of Digit Cards 4–9 (0–3 removed), p. 182, or 1 number cube (4–9)
- Counters (different kind or color for each pair)

Directions

1. The first pair mixes the Digit Cards, stacks them facedown, and draws one card. The pair finds and covers two adjacent numbers whose difference equals the number drawn. The drawn card is stacked in a discard pile.
Example: If 5 is drawn, the pair might cover 9 and 4, 8 and 3, 7 and 2, or 6 and 1.
2. The next pair draws a card, finds two adjacent numbers with a difference equaling the drawn number, and covers the two adjacent numbers with different counters. The pair discards the drawn card.
3. Pairs continue alternating turns and trying to arrange four of their counters in a row.
4. After all Digit Cards are drawn, one player remixes the Digit Cards and stacks them facedown for continued use.
5. If a pair draws a card and cannot find two addends, the pair passes that turn.

KEY STANDARD

Understand subtraction as an unknown addend problem. (1.OA.B.4)

Tip *Some students will benefit from the use of Dot Cards.*

Use Gameboard B (p. 101) to practice subtraction facts with differences to 12.

| | | | | | |
|---|---|---|---|---|---|
| 3 | 7 | 2 | 9 | 1 | 5 |
| 9 | 1 | 6 | 0 | 8 | 3 |
| 5 | 0 | 3 | 7 | 4 | 9 |
| 0 | 4 | 9 | 2 | 8 | 5 |
| 8 | 1 | 2 | 6 | 2 | 1 |
| 3 | 7 | 8 | 1 | 3 | 9 |

6. The game ends when one pair lines up four of that pair's counters in a row or when all adjacent addends are covered without a four-in-a-row arrangement.

Making Connections

Promote reflection and make mathematical connections by asking:

- What strategy helped you line up your counters in a row?
- How would you play this game differently next time?



Finding Differences A

Gameboard A

| | | | | | |
|----------|----------|----------|----------|----------|----------|
| 3 | 7 | 2 | 9 | 1 | 5 |
| 9 | 1 | 6 | 0 | 8 | 3 |
| 5 | 0 | 3 | 7 | 4 | 9 |
| 0 | 4 | 9 | 2 | 8 | 5 |
| 8 | 1 | 2 | 6 | 2 | 1 |
| 3 | 7 | 8 | 1 | 3 | 9 |

Finding Differences B



Gameboard B

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 9 | 5 | 12 | 3 | 10 | 1 |
| 2 | 11 | 4 | 8 | 2 | 7 |
| 6 | 3 | 7 | 12 | 5 | 11 |
| 10 | 5 | 11 | 9 | 1 | 9 |
| 7 | 12 | 6 | 2 | 6 | 3 |
| 3 | 9 | 0 | 5 | 12 | 8 |

Digit Cards

0

1

2

3

4

5

6

7

8

9