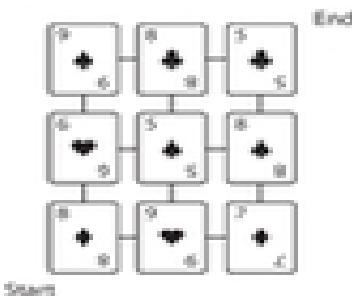


# Take A Walk

Suppose 9 cards are dealt as shown.



For each problem, begin at start, stop at end. Retracing is not allowed.

1. Follow the paths to collect 5 cards.

- What is the highest total possible?
- What is the lowest total possible?
- Is there an answer that is unique?

2. Follow the paths to collect 7 cards.

- What is the highest total possible?
- What is the lowest total possible?
- Is there an answer that is unique?

3. Suppose we change the operation to multiplication. What are the new answers for problems 1 and 2?

4. Suppose the black cards are positive integers and the red cards are negative integers. What are the new answers for problems 1 and 2?

5. How many different ways are there to walk from "start" to "end"?

## Variations

- Use the cards Five through Nine of any suit. Deal 9 cards in a square array as shown.
- Use the cards Ace through Nine or Ace through King of any suit.
- Use larger arrays, 4 x 4, 4 x 5 and 5 x 5.

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[www.education.com/worksheets](http://www.education.com/worksheets).