

## Applying Problem-Solving Strategies

### Analyzing Puzzles and Games: Disk Drop

A television game show offers contestants a chance to win cash by dropping a round disk into the top of a game board from position A through I. The disk falls through the maze to reach one of the nine slots at the bottom. Where it lands determines the value of the cash prize. Counting techniques can be used to analyze this game.



### Analyzing the Game

- Down how many different paths can the disk fall to win the grand prize of \$10 000?
- Down how many different paths can the disk fall to win some money, other than the grand prize?
- Do you think this is a fair game for the contestant? Explain.