**Leap Frog**

**Object: Move the pegs one at a time so the pegs end up on the opposite sides of the board. A peg may jump over only one other peg per move or slide to an open hole next to it.**

Level 1 Game: Complete the puzzle with “backwards” moves allowed.  
Level 2 Game: Complete the puzzle without moving “backwards”

*The big question:* What is the minimum number of moves that it will take to swap the pegs of a ten-peg puzzle?

Fill in the chart to find a pattern that will help you answer the big question.

|  |  |
| --- | --- |
| **Number of Pegs** | **Number of Moves** |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |
| **. . .** |  |
| **10** |  |