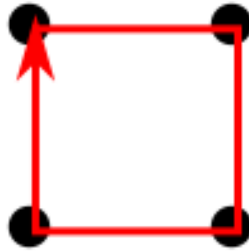


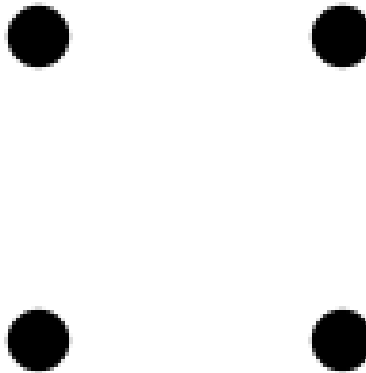
Puzzle of the Week

Lines – 1

Here is a 2 by 2 array of dots. Four connected line segments have been drawn in a path that begins and ends at the same point, and that goes through all four points.



THE CHALLENGE: Find **three** connected line segments that create a path that begins and ends at the same point, and that goes through all four points.



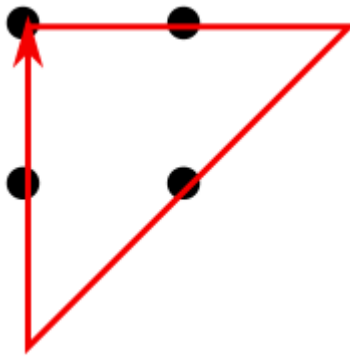
EXPLORATION: Play around with other grids and discover shortest paths that go through all the points.

Puzzle of the Week

Lines – 1 – Notes

THE CHALLENGE: The key to answering this puzzle, and the next one with a 3 by 3 grid, is to think outside the “box.” The temptation in these puzzles is to think that the world of the puzzle is contained within the grid of points.

Here is the solution:



EXPLORATION: In the puzzle “Lines – 2” we will see the answer for a 3 by 3 grid where the path does not start and end at the same point. These are fun geometry puzzles and I am not aware of a general strategy of path creation that is associated with them.