

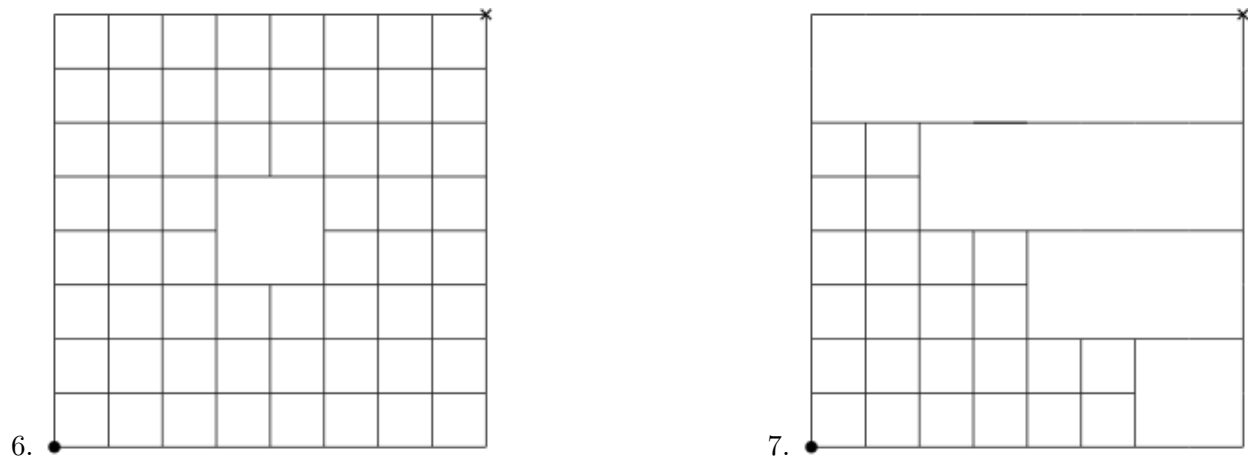
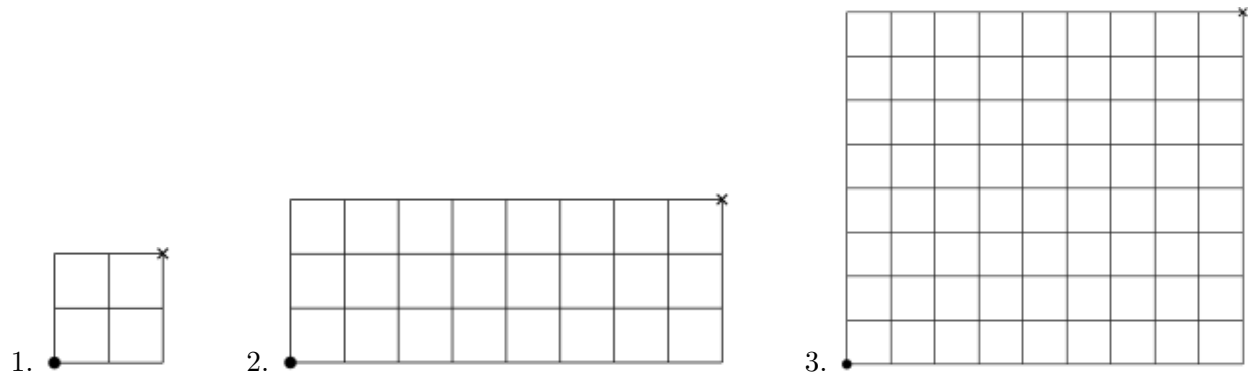
Lattice Paths

JV Practice 1/17/21

C.J. Argue

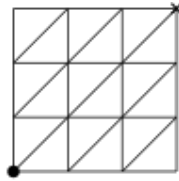
1 Up-right paths

For each of the following grids, determine the number of paths from the \bullet to the \times that move either right or up along edges of the grid.

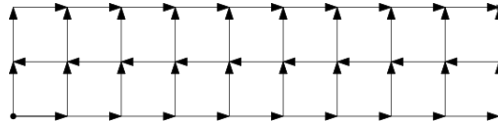


2 Other paths

8. Determine the number of paths from the \bullet to the \times that move right, up, or diagonally up and right along edges of the grid.

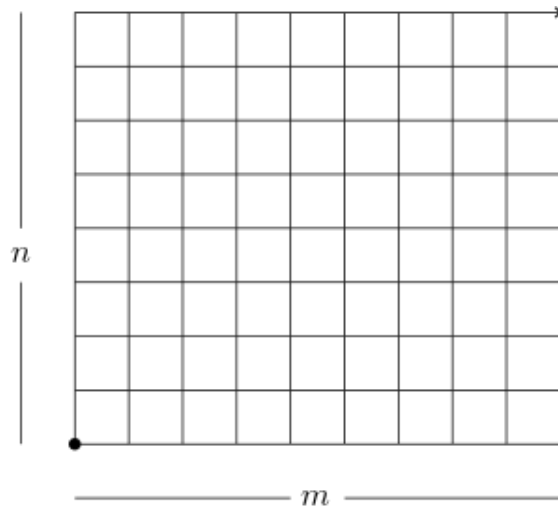


9. Determine the number of paths from the \bullet to the \times that move along grid edges only in the direction indicated by the arrow on each edge

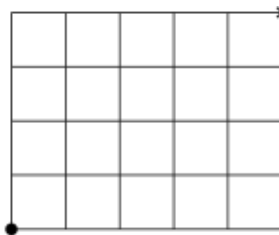


3 Challenge problems

1. For what m and n is it possible to travel from the \bullet to the \times along grid lines (using any direction) and visit each intersection exactly once?



2. Determine the number of paths from the \bullet to the \times that move along grid lines (using any direction) and visit each intersection exactly once.



3. Determine, in terms of n , the number of paths from the \bullet to the \times that move right or up along edges of the grid, and do not go above the blue line.

