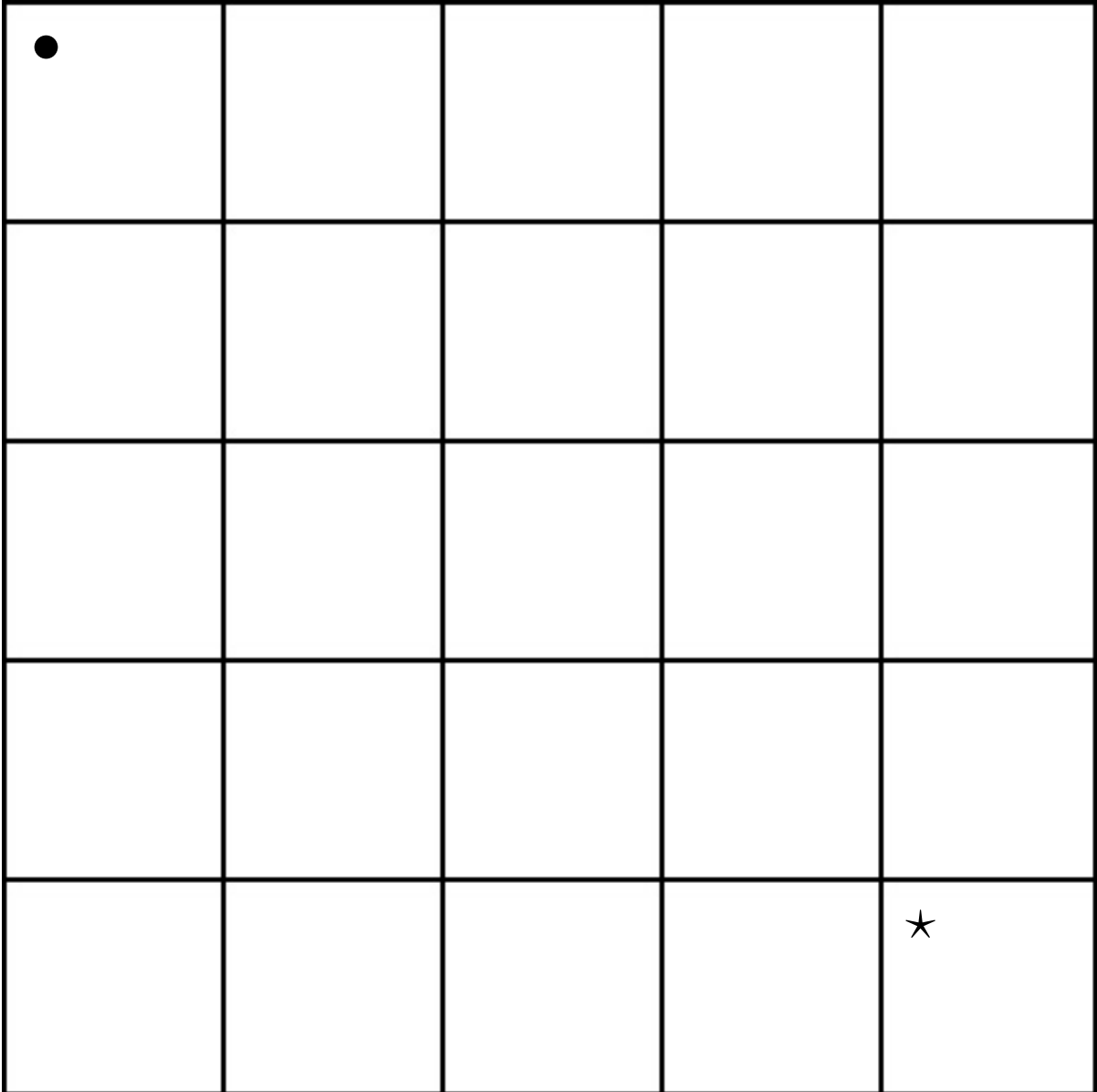


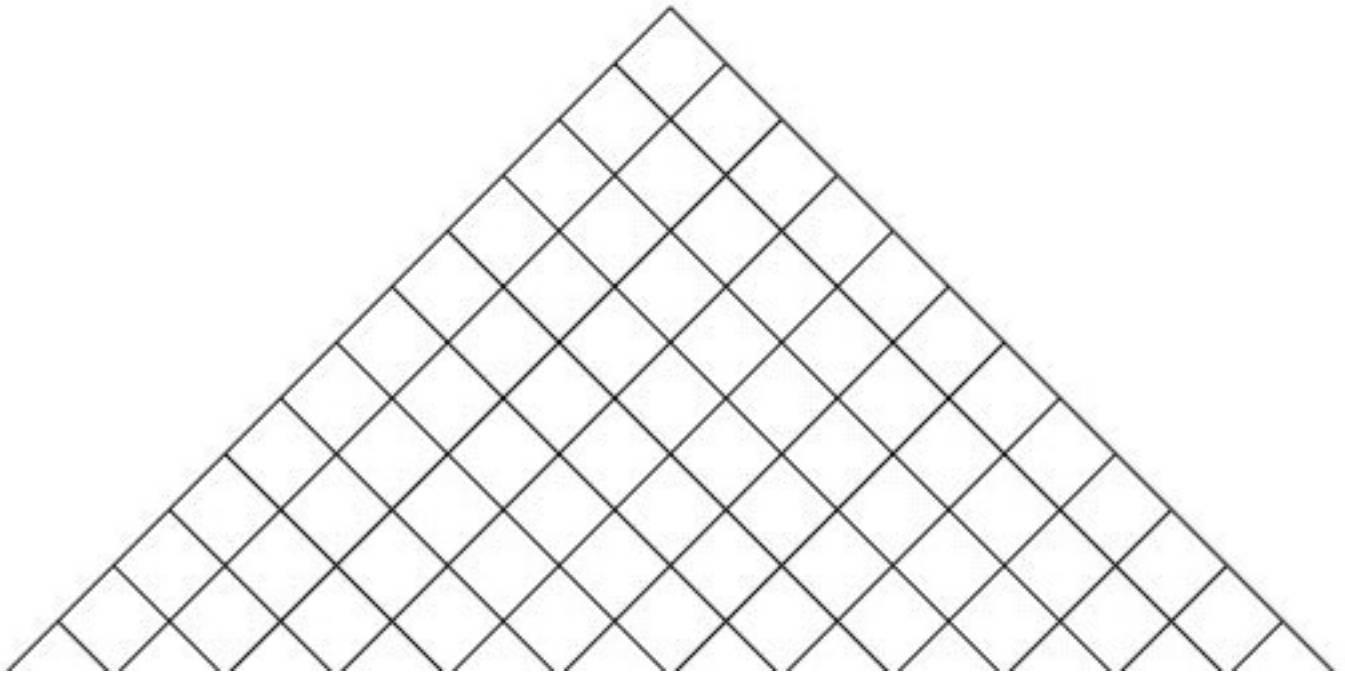
# Worksheet #1

Find the number of paths from the square labeled ● to the square labeled ★ assuming that only rightward and downward movements are allowed.



# Worksheet #2

Fill in the following squares of Pascal's Triangle.

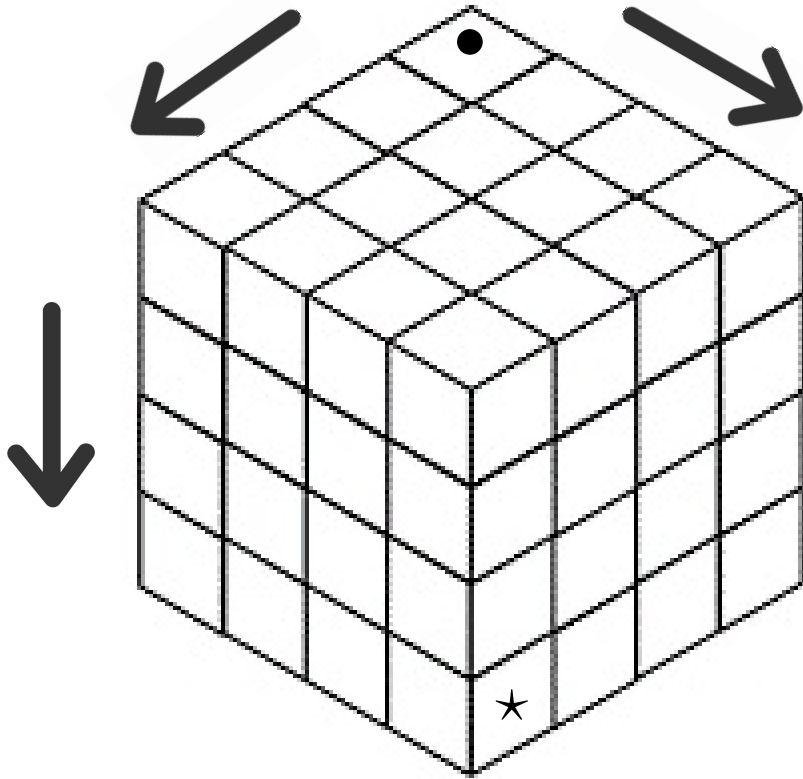


Use your work above to expand the following expression:

$$(x + y)^{10} =$$

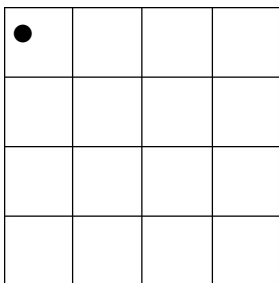
# Worksheet #3

Find the number of paths from the cube labeled  $\bullet$  to the cube labeled  $\star$ , assuming that only forward-right, forward-left, and downward movements are allowed.

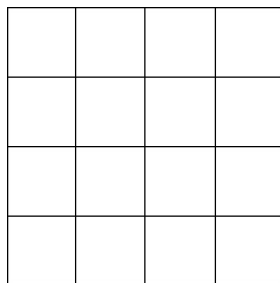


Hint: It might be useful to think of each level separately.

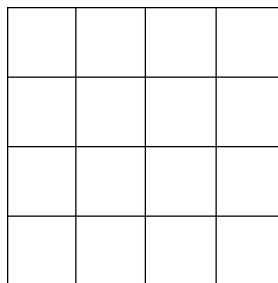
Level 1 (Top)



Level 2



Level 3



Level 4 (Bottom)

