Worksheet: 2D-Arrays 1 Name: _____

Consider the 2-dimensional array called ***pumpkin***:

2	3	8	1
4	0	9	4
5	6	7	2

1. How many rows does the pumpkin array have?

2. How many columns does the pumpkin array have?

3. Write one line of code that will create an array called ***squash*** that has the same dimensions as pumpkin and holds integers. Do not place any numbers into the squash array.

4. Write one line of code that creates an array called ***olive*** that has 5 rows and 7 columns and stores integers.

5. What value is stored at pumpkin[2][1]?

6. What value is stored at pumpkin[0][3]?

7. Consider the index pumpkin[i][j]. What is the largest allowed number for the variable i?

8. Consider the index pumpkin[i][j]. What is the largest allowed number for the variable j?

9. Consider the index pumpkin[i][j]. What occurs if you exceed the largest numbers allowed for either i or j?

10. What will the following code output: System.out.print(pumpkin[0][1]);

11. What will the following code output: System.out.print(pumpkin[1][1]+pumpkin[2][3]);

12. What will the following code output: System.out.print(pumpkin[2][0]-pumpkin[0][4]);

13. What will the following code output: System.out.print(pumpkin[0][2]*pumpkin[1][2]);

14. What will the following code output: System.out.print(pumpkin[2][2]%pumpkin[1][3]);