

# MathFLIX CHALLENGE

## Addition Table

**Hypothesis Testing:** There is a greater probability that the sum of two random numbers is an even number instead of an odd number.

Complete the addition table below to test this hypothesis. Color every cell that contains an odd number yellow. Color every cell that contains an even number orange.

+	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0												
1	1	2											
2			4										
3		4		6				10					
4					8								
5			7										
6													
7													
8													
9													
10													
11													
12													

Complete these equations to show why the probability that the sum of two random numbers produce an even number 50% of the time.

Odd + Odd = \_\_\_\_\_ Even + Even = \_\_\_\_\_ Even + Odd = \_\_\_\_\_ Odd + Even = \_\_\_\_\_