

MathFLIX CHALLENGE

Multiplication Table

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

Complete the multiplication 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	0	1											
2													
3		3						21					
4													
5			10										
6													
7													
8													
9													
10													
11													
12													

Complete these equations to show why the probability that two random factors produce an even number 75% of the time.

Odd x Odd = _____ Even x Even = _____ Even x Odd = _____ Odd x Even = _____