## **Counting Sample Spaces**



Tic Tac Toe

How many security codes can you create if a code has 4 digits and no digit can repeat?





4 Kit Kats, 3 Snicker Bars, and 10 Twix bars are placed in a bag. How many ways can a kid chose five pieces to eat for dinner?



A restaurant offers 3 appetizers, 5 entrees, and 2 desserts. How many ways can you create a 3 course meal?



How many ways can 4 people line up to buy a **Chicken Biscuit** at Bojangles?





A group of five students is selected from a class of 32. How many ways can the teacher select the five students?





How many 3 digit area codes are possible if the first digit cannot be 0 or 1 and the last digit must be 5 or larger?





Three different seeds are planted in a horizontal row. How many ways can you plant the seeds?



A cast of 9 extras is needed for the school play. 20 students try out for the parts. How many ways can the director select the 9 extras?

167,960



A teacher selects a writer, a time keeper, and a runner from a group of 6 students. How many ways can the teacher select these positions?



How many outcomes are possible if you roll a die 6 times?



