

Grade 10-11

Distance Learning Module 6: Week of: May 11<sup>th</sup> – May 15<sup>th</sup>

## Pre-Calculus Honors - Modified from [Unit E - Sequences, Series and Probability](#)

### Targeted Goals from Stage 1: Desired Results

**Content Knowledge:** Understand independence and conditional probability and use them to interpret data. Use the rules of probability to compute probabilities of compound events.

**Vocabulary:** Combinations, Permutations

**Skills:** using counting principles to determine probabilities

### Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: The probability of independent events	Khan Academy video: Die rolling probability with independent events  Khan Academy video: Coin flipping probability  Khan Academy video: Free-throw probability  Khan Academy video: Three-pointer vs free-throw probability <a href="https://www.khanacademy.org/math/prec calculus/x9e81a4f98389efdf:prob-comb/x9e81a4f98389efdf:compound-probability-of-ind-events-using-mult-rule/v/lebron-asks-about-free-throws-versus-three-pointers?modal=1">https://www.khanacademy.org/math/prec calculus/x9e81a4f98389efdf:prob-comb/x9e81a4f98389efdf:compound-probability-of-ind-events-using-mult-rule/v/lebron-asks-about-free-throws-versus-three-pointers?modal=1</a>	Khan Academy practice: Independent probability

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Tuesday: Check-in	Virtual class meeting	Review assignments and any problems that the students are experiencing
Wednesday:	Khan Academy video: Dependent probability introduction  Khan Academy video: Dependent probability: coins  Khan Academy video: Dependent probability example  Khan Academy video: Independent and dependent probability	Khan Academy practice: Dependent probability
Thursday:	Khan Academy video: The Monty Hall problem  Khan Academy video: Factorial and counting seat arrangements  Khan Academy video: Permutation formula	Khan Academy : Quiz 1
Friday:	Virtual class meeting	Review assignments and any problems that the students are experiencing

**Week criteria for success** (attach student checklists or rubrics): Students will be able to determine the probability of independent and dependent events.

**Supportive resources and tutorials for the week** (plans for re-teaching): Khan Academy, Precalculus with Limits by Larson and Hostetler, virtual class meetings