Unit 07 - Sports Statistics

Content Area: Math

Course(s): Prob/Stat A
Time Period: Semester 2
Length: 4 weeks
Status: Published

Unit Introduction

Standards

CCSS.Math.Content.HSS-IC.B.3	Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.
CCSS.Math.Content.HSS-CP.A.1	Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events ("or," "and," "not").
CCSS.Math.Content.HSS-CP.A.2	Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.
CCSS.Math.Content.HSS-CP.A.3	Understand the conditional probability of A given B as $P(A \text{ and } B)/P(B)$, and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A , and the conditional probability of B given A is the same as the probability of B .
CCSS.Math.Content.HSS-CP.A.5	Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations.
CCSS.Math.Content.HSS-CP.B	Use the rules of probability to compute probabilities of compound events in a uniform probability model
CCSS.Math.Content.HSS-MD	Using Probability to Make Decisions

Essential Questions

Content

- Lesson 1 -
- Lesson 2 -

Skills

- Determine the expected value of an event
- Find the probability of independent and dependent events

- Find the probability of mutually exclusive events
- Find theoretical and experimental probability
- Use the Counting principle to find number of outcomes