

# Unit 07 - Sports Statistics

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

## Unit Introduction

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## Standards

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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-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-MD	Using Probability to Make Decisions

## Essential Questions

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## Content

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- Lesson 1 -
- Lesson 2 -

## Skills

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- 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