



Algebra II Journal

Module 5: Probabilities of Compound Events

Fan Appreciation Night, Part 3

This journal belongs to:

Module 5: Probabilities of Compound Events

Algebra II Journal: Reflection 1

Record your data in the two-way table below.

	Mascot Choice A	Mascot Choice B	Mascot Choice C	Total
Female Freshmen				
Male Freshman				
Female Sophomores				
Male Sophomores				
Female Juniors				
Male Juniors				
Female Seniors				
Male Seniors				
Total				

Respond to the following reflection questions and submit to your teacher.

Test and Confirm

What is the probability that a randomly selected student would prefer Mascot Choice A?

What is the probability that a randomly selected student is a freshman who prefers Mascot Choice B?

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What is the probability that a randomly selected student is a junior who would not prefer Mascot Choice C?

What is the probability that a randomly selected student is a senior who would prefer Mascot Choice A or C?

What is the probability that a randomly selected student is a female who would prefer Mascot Choice B?

Apply the Model

Based on the data, which mascot choice would you recommend to the principal? Why?

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Algebra II Journal: Reflection 2

In this lesson, you learned how to calculate probabilities of compound events using a two-way table. Respond to the following reflection questions and submit to your teacher.

What strategies do you use to find probabilities with a two-way table?

How do you calculate $P(A \text{ and } B)$ using a two-way table?

How do you calculate $P(A \text{ or } B)$ using a two-way table?

Summarize your new learning for this module. What were the big ideas? Describe at least one big idea in depth.