May 16-7:43 AM

Learning Targets

- I can calculate conditional probabilities.
- I can construct a two-way table.
- I can find probabilities using a two-way table.

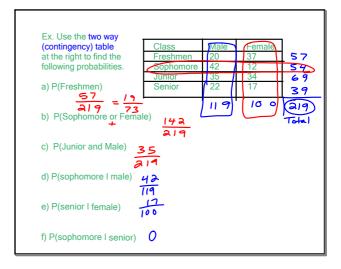
Sep 16-9:16 PM

Conditional Probability

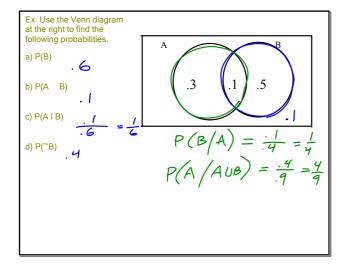
For any two events A and B, the conditional probability between them is P(A|B). This is read: "The probability of event A given that event B has already occurred."

$$P(A|B)$$
 $P(A/B)$

Sep 23-10:42 PM

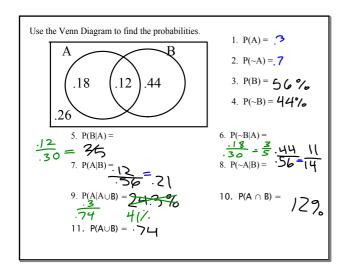


Sep 23-10:47 PM



Here is the data from the sinking of the Titanic: 1st class 2nd class 3rd class Crew 119 152 703 1. What is the probability of randomly selecting a person on the Titanic who survived? 704 31.9% 2205 2. What is the probability of randomly selecting a person on the Titanic who was in 3rd class? 2205 3. What is the probability of randomly selecting a person on the Titanic who was in the 3rd class given that they survived? 172/50V = 24.4%. 4. What is the probability of randomly selecting a person on the Titanic who survived given they are in 3rd class? 172/699 24.6%

Sep 23-10:51 PM Sep 23-10:54 PM



p. 50 #1, 3, 4, 7-9, 11, 14, 16

Homework:

Learning Targets

- I can calculate conditional probabilities.
- I can construct a 2-way table.
- I can find probabilities using a 2-way table.

Sep 23-11:02 PM Sep 20-7:32 PM