

## CW #4 – CONDITIONAL PROBABILITY – STATISTICS

Directions: Show all work on another sheet of paper. Write all answers as FRACTIONS or as a decimal rounded to the nearest ten-thousandths (four decimal places).

- 1) Ivy conducted a taste test for four different brands of chocolate chip cookies. Below is a two-way table that describes which cookie each subject preferred and their gender. Suppose one subject from this experiment is selected at random.

	Cookie Brand				Totals
	A	B	C	D	
Female	4	6	13	13	36
Male	22	11	11	14	58
Totals	26	17	24	27	94

- (a) Find the probability that the selected subject preferred Brand C.  
(b) Find the probability that the selected subject preferred Brand C, given that she is female.  
(c) Are the events "preferred Brand C" and "female" independent? Explain.  
(d) Are the events "preferred Brand C" and "female" mutually exclusive? Explain.  
(e) If a random sample of two subjects is selected, what is the probability that neither preferred Brand A?
- 2) Officials at Dipstick College are interested in the relationship between participation in interscholastic sports and graduation rate. The following table summarizes the probabilities of several events when a male Dipstick student is randomly selected.
- | <u>Event</u>  | <u>Probability</u> |
|---|--------------------|
| Student participates in sports                      | 0.20               |
| Student participates in sports and graduates        | 0.18               |
| Student graduates, given no participation in sports | 0.82               |
- (a) Find the probability that a student graduates, given that he participates in sports.  
(b) Find the probability that the individual does not graduate, given that he participates in sports.  
(c) Draw a tree diagram to summarize the given probabilities and those you determined above.  
(d) Find the probability that the individual does not participate in sports, given that he graduates.
- 3) Suppose a person was having two surgeries performed at the same time by different operating teams. Assume (unrealistically) that the two operations are independent. If the chances of success for surgery A are 85%, and the chances of success for surgery B are 90%, what is the probability that both will fail?
- 4) Parking for students at Santa Monica College is very limited, and those who arrive late have to park illegally and take their chances at getting a ticket. Joey has determined that the probability that he has to park illegally and that he gets a parking ticket is 0.07. He recorded data last year and found that because of his perpetual tardiness, the probability that he will have to park illegally is 0.25. Suppose that Joey arrived late once again this morning and had to park in a no-parking zone. Can you find the probability that Joey will get a parking ticket? If so, do it. If not, explain what additional information is needed in order to find the probability.

# Mei Statistics 1 Conditional Probability Answers 2014

**R Barnett**



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