## What is an outcome

Science, Statistics

## ASSIGN BUSTER

Assignment: Chapter 7 section a What is an outcome? Refers to the result of a single trial of a probability experiment
2. What is an event?

An event can be described as a set of outcomes of a probability experiment
3. Probability is always between 0 and 1
4. What is theoretical probability?

It is the probability that assumes that all outcomes in a sample space are equally likely to occur
5. What is relative frequency method or empirical probability?

Empirical probability relies on actual experience to determine the outcome of outcomes
6. What is subjective probability?

Subjective probability uses probability value based on an educated guess employing opinions and inexact information.
7. What is a probability distribution?

It consists of the values a random variable can assume and the corresponding probabilities of the values which are determined through experiment or through observation.
8. What are the odds of an event?

Odds of an event are applied in gambling games to make them fair.
9. What is the multiplication principal for finding number of outcomes?

Chapter 7 section B

1. What are independent events?

Events can be independent if occurence of one of the events does not affect the probability of another occurring.
2. How do we find the probability of two or more independent events happening at same time?

Multiplication of the individual probabilities for each of the events
3. What is the probability of rolling a single die three times and getting a six on all three rolls?
4. What are dependent events?

Dependent events are events in which occurrence of one event affects the occurrence of the other event.
5. How do we find the probability of two or more dependent events happening?

We use conditional probability which is the probability of an event B happening given that event A has already occurred
6. If a bag has three cherry jelly bellies, and 4 popcorn jelly bellies, what is the probability of drawing a cherry and eating it then drawing another cherry and eating it followed by drawing a popcorn.

Probability of picking a cherry
Probability of picking a popcorn
7. How do you find either or probabilities that do not overlap?

By finding the compliment of the event
Where $A$ is the probability of event occuring and is the probability of event not occurring
8. How do you find either or probabilities if they do overlap?
9. If you toss a coin four times explain how to us the at-least rule to find probability of tossing at-least one head?

