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Probability

**Chapter 6**

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## Probability

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## Probability

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## Examples **Chapter 6 Discrete Probability Distributions**

A \_\_\_\_\_ distribution can be in the form of a table, graph or mathematical formula. The probability of each value of the random variable is a number between 0 and 1. The probabilities over the entire distribution is always equal to 1.

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## **Chapter 6: Discrete Probability Distributions Flashcards ...**

The Mean of a Discrete Probability Distribution is a weighted average where the possible values of a random variable are weighted by their corresponding probabilities of occurrence. See Example 6.2 Variance and Standard Deviation of a Discrete

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## Probability Distribution Distributions

### **Chapter 6 - Discrete Probability Distributions Flashcards ...**

Chapter 6: Discrete Probability Distributions. In Chapter 6, we expand on the probability concepts we learned in Chapter 5, and introduce the idea of a random variable. Random variables are useful because they

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Probability  
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Examples

help us determine if playing a game like roulette (shown to the right) is profitable in the long-term.

## **Chapter 6: Discrete Probability Distributions**

Section 6.1: Discrete Random Variables 6.1  
Discrete Random Variables 6.2 The Binomial Probability Distribution By the end of this lesson, you will be able to... 1.

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distinguish between discrete and continuous random variables 2. identify discrete probability distributions 3. construct probability histograms 4.

## **Chapter 6: Discrete Probability Distributions**

Chapter 6: Discrete Probability Distributions. STUDY. PLAY. random variable. a variable that



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## Probability

assumes numerical values associated with the outcomes of a probability experiment where one numerical value is assigned to each outcome. discrete random variable.

### **Chapter 6: Discrete Probability Distributions Flashcards ...**

Chapter 6 Discrete  
Probability  
Distributions True/False  
1. A random variable

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Probability  
Distributions  
Examples

represents the  
outcomes of an  
experiment. Answer:

True Difficulty: Easy  
Goal: 1 2. A discrete  
random variable can  
have only certain  
clearly separated  
values. Answer: True  
Difficulty: Easy Goal: 2  
3.

## **Chapter 6 Discrete Probability Distributions**

NORMAL DISTRIBUTION  
(Chapter 6) z-value:  $X z$

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## Probability

1 (use for individual data value when data is normally distributed)

(use when applying Central Limit Theorem about sample mean

When variable is normally distributed or  $n \geq 30$  Find data value given  $z$  (inside out

problems):  $x = z \cdot \sigma + \mu$  To determine if data is normally distributed: 1.

## **DISCRETE PROBABILITY DISTRIBUTIONS**

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## Chapter 6: Continuous Probability

Distributions 1. Let  $x$  be the random variable described by the uniform probability distribution... Explain why  $p(x = 130) \neq 1/20$ . 3. Referring to the previous exercise, find the following probabilities using  $f(x)$  and  $R$ . 4. Referring to the previous ...

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## Probability

## Distributions

## Examples

Chapter 6: Continuous  
Probability

Distributions 178

Section 6.2: Graphs of  
the Normal Distribution

Many real life problems  
produce a histogram

that is a symmetric,  
unimodal, and bell-  
shaped continuous  
probability distribution.

For example: height,  
blood pressure, and  
cholesterol level.

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## Probability

However, not every bell shaped curve is a normal curve.

## Examples

### **Chapter 6: Continuous Probability Distributions**

One can understand this calculation as follows: The probability that no 6 turns up on the first toss is  $(\frac{5}{6})^n$

$= 1 - \frac{5}{6} = \frac{1}{6}$

CHAPTER 1. DISCRETE  
PROBABILITY

DISTRIBUTIONS.:3:7:

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aces.

## **Discrete Probability Distributions**

CHAPTER 6: DISCRETE  
PROBABILITY

DISTRIBUTIONS

PROBABILITY

DISTRIBUTION

DEFINITIONS: Random

Variable is a

measurable or

countable outcome of a  
probability experiment.

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## Probability

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## Examples

### **PPT - CHAPTER 6:**

### **DISCRETE**

### **PROBABILITY**

### **DISTRIBUTIONS ...**

6.1 Discrete Random  
Variables Objectives:

By the end of this  
section, I will be able  
to... 1) Identify random  
variables. 2) Explain  
what a discrete  
probability distribution  
is and construct  
probability distribution



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Probability

tables and graphs. 3) Calculate the mean, variance, and standard deviation of a discrete random variable.

## **Chapter 6: Random Variables and the Normal Distribution**

### **6 ...**

Chapter 6 Discrete Probability

Distributions True/False

1. The Poisson probability distribution is always negatively skewed. Answer: 2. A

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## Probability

random variable is assigned numerical values based on the outcomes of an experiment. Answer: 3.

A random variable represents the outcomes of an experiment. Answer: 4.

## **Chapter 6 Discrete Probability Distributions**

Chapter 5: Discrete  
Probability

Distributions 164.

$$P(x \geq 6) = P(x=6) + P(x \geq 7)$$

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Probability  
Distributions  
Examples

) = 2.4% + 1.5% = 3.9%

Since this probability is less than 5%, then six is an unusually high value. It is unusual for a household to have six people in the family.

## **Chapter 5: Discrete Probability Distributions**

Chapter 6 Discrete  
Probability  
Distributions

**(DOC) Chapter 6**  
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## Probability

### **Discrete Probability**

### **Distributions ..**

#### CHAPTER 6 DISCRETE PROBABILITY

#### DISTRIBUTIONS

#### SECTION EXERCISES

6.1 d/p/e A random variable is described as "random" because we don't know ahead of time exactly what value it will have following the experiment.

6.2 d/p/m  
a. Continuous. This is an exact measurement that could take on any

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## Probability

value within an interval. b. Discrete.

## Distributions Examples

### **Chapter 6 Homework**

### **ANS - CHAPTER 6**

### **DISCRETE**

### **PROBABILITY ...**

Chapter 6 Probability Distributions A discrete probability distribution assigns a probability to each value of a discrete random variable  $X$ . The distribution must follow the rules of probability defined in Chapter 5.

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**Chapter 6.docx -**

**Chapter 6 6.1**

**DISCRETE**

**PROBABILITY ...**

Elementary Statistics:  
Picturing the World  
(6th Edition) answers  
to Chapter 4 - Discrete  
Probability

Distributions - Section

4.2 Binomial

Distributions -

Exercises - Page 211

15 including work step

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