

Name Kay Period _____ Date _____

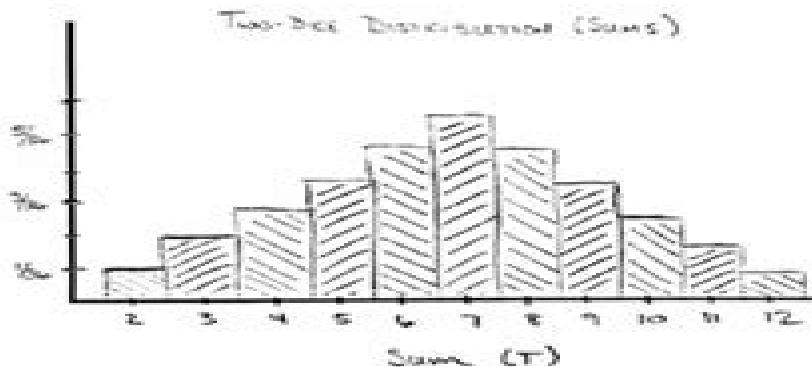
Discrete Random Variables Worksheet

1. Suppose you roll a pair of fair, six-sided dice. Let T = the sum of the spots showing on the up-faces.

a) Find the probability distribution of T :

t	2	3	4	5	6	7	8	9	10	11	12
$P(T = t)$	$\frac{1}{36}$	$\frac{2}{36}$	$\frac{3}{36}$	$\frac{4}{36}$	$\frac{5}{36}$	$\frac{6}{36}$	$\frac{5}{36}$	$\frac{4}{36}$	$\frac{3}{36}$	$\frac{2}{36}$	$\frac{1}{36}$

b) Make a histogram of the probability distribution. Describe what you see. (Hint: Shape, center, and spread)



The distribution is symmetric and centered at 7. The mode is 7.

c) Find $P(T \geq 5)$ and interpret the result.

$$P(T \geq 5) = \frac{1}{36} + \frac{2}{36} + \frac{3}{36} + \frac{4}{36} + \frac{5}{36} + \frac{6}{36} + \frac{1}{36} = \frac{22}{36} \approx .583$$

$$P(T \geq 5) = 1 - P(T \leq 4) = 1 - \left(\frac{1}{36} + \frac{2}{36} + \frac{3}{36}\right) = \frac{22}{36} \approx .583$$

There is about an 82% chance that you will roll a sum ≥ 5 when rolling a pair of six-sided dice.

2. Faked numbers in tax returns, invoices, or expense account claims often display patterns that aren't present in legitimate records. Some patterns, like too many round numbers, are obvious and easily avoided by a clever crook. Others are more subtle. It is a striking fact that the first digits of numbers in legitimate records often follow a model known as Benford's law. Call the first digit of a randomly chosen record X for short. Benford's law gives this probability model for X (note that a first digit can't be 0):

First digit:	1	2	3	4	5	6	7	8	9
Probability:	0.301	0.176	0.125	0.097	0.079	0.067	0.058	0.051	0.046

a) Show that this is a legitimate probability distribution.

1) All probabilities are b/w 0 & 1.

2) $P(5) = .301 + .176 + \dots + .046 = 1$

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Table of Contents Mei Discrete Random Variables Test Answers

1. Understanding the eBook Mei Discrete Random Variables Test Answers
 - The Rise of Digital Reading Mei Discrete Random Variables Test Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mei Discrete Random Variables Test Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mei Discrete Random Variables Test Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mei Discrete Random Variables Test Answers

- Personalized Recommendations
- Mei Discrete Random Variables Test Answers User Reviews and Ratings
- Mei Discrete Random Variables Test Answers and Bestseller Lists

5. Accessing Mei Discrete Random Variables Test Answers Free and Paid eBooks

- Mei Discrete Random Variables Test Answers Public Domain eBooks
- Mei Discrete Random Variables Test Answers eBook Subscription Services
- Mei Discrete Random Variables Test Answers Budget-Friendly Options

6. Navigating Mei Discrete Random Variables Test Answers eBook Formats

- ePUB, PDF, MOBI, and More
- Mei Discrete Random Variables Test Answers Compatibility with Devices
- Mei Discrete Random Variables Test Answers Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Mei Discrete Random Variables Test Answers
- Highlighting and Note-Taking Mei Discrete Random Variables Test Answers
- Interactive Elements Mei Discrete Random Variables Test Answers

8. Staying Engaged with Mei Discrete Random Variables Test Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mei Discrete Random Variables Test Answers

9. Balancing eBooks and Physical Books Mei Discrete Random Variables Test Answers

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Mei Discrete Random Variables Test Answers

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Mei Discrete Random Variables Test Answers

- Setting Reading Goals Mei Discrete Random Variables Test Answers
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Mei Discrete Random Variables Test Answers

- Fact-Checking eBook Content of Mei Discrete Random Variables Test Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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