

Name Kay Period Date

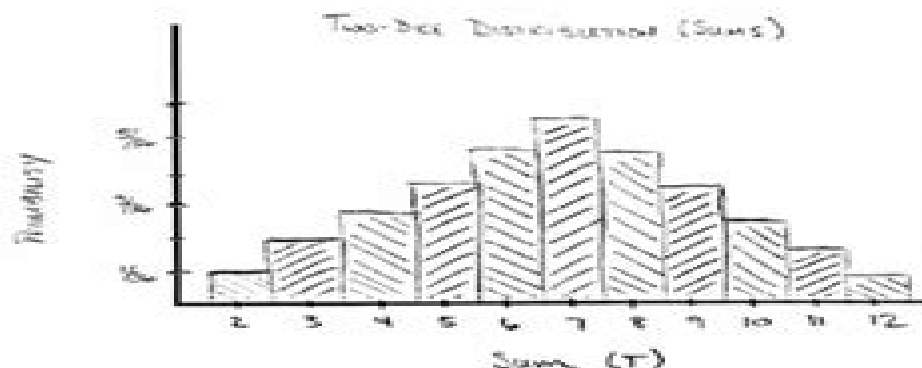
Discrete Random Variables Worksheet

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 bell-shaped, centered at 7. The spread is 10.

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

$$P(T \geq 5) = \frac{4}{36} + \frac{5}{36} + \frac{6}{36} + \frac{5}{36} + \frac{4}{36} + \frac{3}{36} + \frac{2}{36} + \frac{1}{36} = \frac{30}{36} \approx .833$$

$$P(T \geq 5) = 1 - P(T < 5) = 1 - \left(\frac{1}{36} + \frac{2}{36} + \frac{3}{36} \right) = \frac{30}{36} \approx .833$$

There is about an 83.3% 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.

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

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

Mei Statistics 1 Discrete Random Variables Worksheet Answers

Richard Bailey



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Statistics 3 Anthony Eccles, Michael Davies, 2005-04-29 This series well known for accessibility and for a student friendly approach has a wealth of features Worked Examples Activities Investigations Graded Exercises Key Points summaries and Discussion Points To ensure exam success there are plenty of up to date exam questions plus warning signs to indicate common pitfalls MEI offer full support to schools through their network with newsletters training days and an annual conference Statistics 3 builds on topics in the two earlier books in this strand The work on random variables is extended both from discrete to continuous variables and also to include linear combinations of random variables The rest of this book is devoted to inference sampling methods confidence intervals the t test the Wilcoxon signed rank test and the test for goodness of fit Taken together with the two earlier books this book is ideal for any statistics course at this level *MTE-11*

Probability and Statistics Honey Garg, 2011-08-16 MTE 11 Probability and Statistics Topics Covered Block 1 Descriptive Statistics Unit 1 Frequency Distribution of a Character Unit 2 Measures of Central Tendency and Dispersion Unit 3 Skewness and Kurtosis Unit 4 Correlation and Regression Block 2 Probability on Discrete Sample Spaces Unit 1 Sample Space of a Random Experiment Unit 2 Probability on a Discrete Sample Space Unit 3 Discrete Random Variable and its Probability Distribution Unit 4 Standard Probability Distributions Part I Unit 5 Standard Probability Distributions Part II Block 3 Distribution Theory Unit 1 Univariate Distributions Unit 2 Standard Continuous Distributions Unit 3 Bivariate Distributions Unit 4 Functions of Random Variables Unit 5 Limit Theorems Block 4 Elements of Statistical Inference Unit 1 General Introduction Unit 2 Point Estimation Unit 3 Testing of Hypotheses Unit 4 Common tests and Confidence Intervals Question Papers Total 19 Solved 8 Unsolved 11 1 June 2012 2021 2 December 2011 2013 2019 3 February 2021

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Table of Contents Mei Statistics 1 Discrete Random Variables Worksheet Answers

1. Understanding the eBook Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - The Rise of Digital Reading Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Mei Statistics 1 Discrete Random Variables Worksheet 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 Statistics 1 Discrete Random Variables Worksheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Personalized Recommendations
 - Mei Statistics 1 Discrete Random Variables Worksheet Answers User Reviews and Ratings
 - Mei Statistics 1 Discrete Random Variables Worksheet Answers and Bestseller Lists

5. Accessing Mei Statistics 1 Discrete Random Variables Worksheet Answers Free and Paid eBooks
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 - Mei Statistics 1 Discrete Random Variables Worksheet Answers eBook Subscription Services
 - Mei Statistics 1 Discrete Random Variables Worksheet Answers Budget-Friendly Options
6. Navigating Mei Statistics 1 Discrete Random Variables Worksheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Mei Statistics 1 Discrete Random Variables Worksheet Answers Compatibility with Devices
 - Mei Statistics 1 Discrete Random Variables Worksheet Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Highlighting and Note-Taking Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Interactive Elements Mei Statistics 1 Discrete Random Variables Worksheet Answers
8. Staying Engaged with Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mei Statistics 1 Discrete Random Variables Worksheet Answers
9. Balancing eBooks and Physical Books Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mei Statistics 1 Discrete Random Variables Worksheet Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Setting Reading Goals Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mei Statistics 1 Discrete Random Variables Worksheet Answers
 - Fact-Checking eBook Content of Mei Statistics 1 Discrete Random Variables Worksheet 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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