

Name Kay Period Date

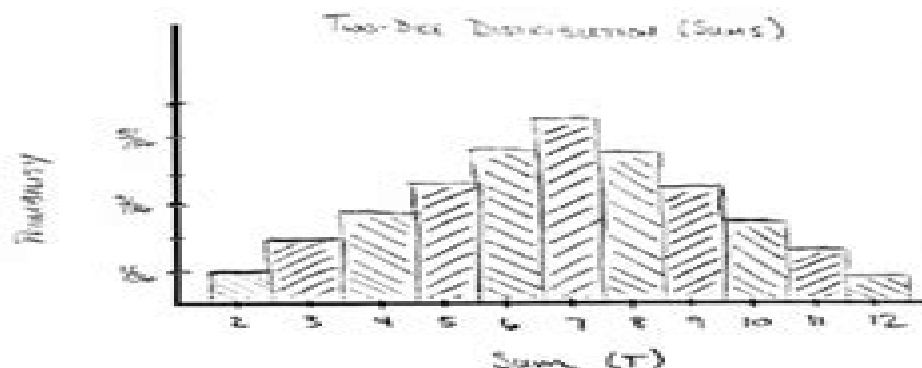
Discrete Random Variables Worksheet

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

Anthony Eccles, Michael Davies



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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

Mei Statistics 1 Discrete Random Variables Worksheet Answers Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Mei Statistics 1 Discrete Random Variables Worksheet Answers**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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