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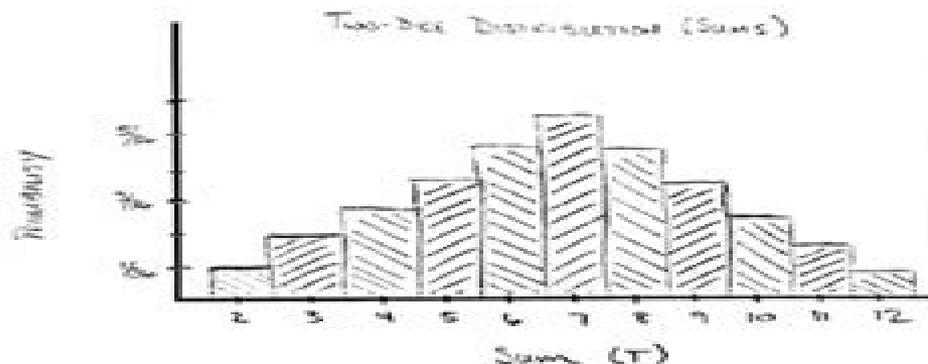
## Discrete Random Variables Worksheet

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

# Mei Discrete Random Variables Test Answers

**Yan Bai**



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