

Table Number: _____

Group Name: _____

Group Members: _____

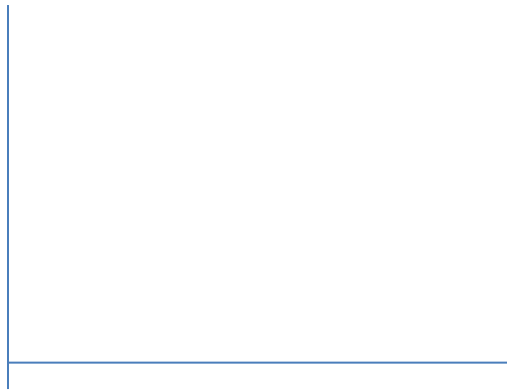
Discrete Probability Distribution: Ichiro's Hit Parade

In the 2004 baseball season, Ichiro Suzuki of the Seattle Mariners set the record for the most hits in a season with 262 hits. In the following probability distribution, the random variable represents the number of hits Ichiro obtained in a game.

X	$P(X)$
0	0.1677
1	0.3354
2	0.2857
3	0.1491
4	0.0373
5	0.0248

a. Verify this is a discrete probability distribution

b. Draw a probability histogram, be sure to label your axes.



c. Compute the mean (the expected value) of the random variable and interpret in a complete sentence the mean of the distribution.

d. What is the probability that in a randomly selected game Ichiro got two hits?

e. What is the probability that in a randomly selected game Ichiro got more than one hit? At least three hits?