

Math 115 - Quiz 9

November 6, 2014

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (5 points) Consider the table shown below.

x	$P(x)$
3	0.003
4	0.012
5	0.037
6	0.325
7	0.028
8	0.462
9	0.084
10	0.049

- (a) Does the table describe a probability distribution? Explain.
- (b) Find mean value of x (i.e. the expected value).
- (c) Find the standard deviation.
- (d) Use the standard deviation to determine if there are any unusually large values of x .
- (e) Use probabilities to determine if there are any unusually small values of x .