

Name:

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MATH 1342
Quiz 4.3

- (1) Calculate the mean and variance “by hand”:

x	2	3	4	5	6	7
$p(x)$	0.2	0.1	0.15	0.2	0.15	0.2

- (2) Calculate the mean and standard deviation using the 1-Var Stats in the calculator:

x	3	5	8	9	11	15
$p(x)$	0.2	0.1	0.15	0.2	0.15	0.2

- (3) On a symmetric, mound shaped probability distribution, the mean is 42.8 and the standard deviation is 7.6. Construct the interval, centered on the mean, where a randomly selected sample is 95% likely to have a value in that interval.