

1. Name the statistic the following symbols represent

- a. (1 pt.) μ
- b. (1 pt.) $E(x)$
- c. (1 pt.) σ
- d. (1 pt.) σ^2

2. (4 pts.) Given the following probability distribution, calculate the mean and the variance

<u>k</u>	<u>Pr(x = k)</u>
2	0.1
4	0.3
6	0.6

3. (2 pts.) If $E(X^2) = 100$ and $\mu = 6$, what is σ ?