

## Quiz 2

*Name:*

1. Suppose you throw two 3-sided die.
  - a. Let  $X$  denote the random variable of the sum of the two sides. Write out the pmf of  $X$
  - b. Calculate the expectation of  $X$ .
  - c. Calculate the variance of  $X$
  - d. Suppose we have the following 5 outcomes from throwing two 3-sided dice: 4, 2, 5, 5, and 3. Calculate the sample mean.
  - e. Calculate the sample variance from the data above.