Name: $\qquad$ TA: $\qquad$ Lab Day and Time: $\qquad$
Please fill out all three lines above. Otherwise we can't easily record your scores.
This density plot shows a Uniform distribution.
All scores between 0 and 1 are equally likely.

1. What proportion of scores are greater than .8 ?
2. What proportion of scores are less than .3?
3. What proportion of scores are between .45 and .65 ?
4. Draw a histogram of a skewed distribution.


X

Write the measurement scale of each variable
5. Time it takes people to walk to school
6. People eat 5 cookies and rank them from favorite to least favorite.
7. You measure people's height using a ruler on a wall, and later you learn the ruler was too high (so that 0 was above the floor), but you don't know by how much.
8. Create a distribution that has mean > median > mode, and write the value of each of these statistics. If you need a starting point, begin with $\{1,2,3,3,4,5\}$, which has mean = median = mode, and think of ways to change this by adding more scores.
9. Calculate the variance of the population $\{51,56,54,57,47\}$.
10. A population of 100 people has a standard deviation of 2 . What's the sum of squares?

