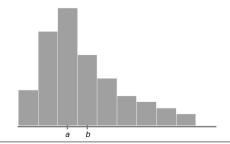
1. (3 pts) Which of the following statements is true about the data represented by the histogram below?



- \mathbf{b} is the mean and \mathbf{a} is the median
- \mathbf{a} is the mean and \mathbf{b} is the median
- \mathbf{a} is the mean and \mathbf{b} is the mode
 - \mathbf{a} and \mathbf{b} are both technically the mean
- 2. You are given a Pandas DataFrame cereal with information per serving about 80 different breakfast cereals. Here are the first 5 rows of the DataFrame:

	name	manufacturer	type	calories	protein	fat	fiber	carbo	sugars
0	100% Bran	Nabisco	cold	70	4	1	10.03	5.0	6
1	100% Natural Bran	Quaker Oats	cold	120	3	5	1.93	8.0	8
2	All-Bran	Kelloggs	cold	70	4	1	8.80	7.0	5
3	All-Bran with Extra Fiber	Kelloggs	cold	50	4	0	14.04	8.0	0
4	Almond Delight	Ralston Purina	cold	110	2	2	1.00	14.0	8

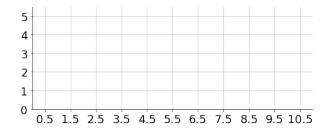
- (a) (3 pts) What is the granularity of the cereal DataFrame?
 - serving of cereal
 - O manufacturer
 - O type of cereal
 - O box of cereal
- (b) (6 pts) Identify the type for each of the following variables:

fiber

- \bigcirc Quantitative Discrete
- Qualitative Ordinal O Quantitative Continuous Qualitative Nominal

manufacturer

- Quantitative Discrete
- Qualitative Ordinal
- Quantitative Continuous
- Qualitative Nominal
- 3. Consider the following data: {1, 2, 5, 6, 7, 8, 8, 8, 9, 10, 10}
 - (a) (5 pts) Using the axes below and bin edges at 0.5, 2.5, 4.5, 6.5, 8.5 and 10.5, draw a frequency histogram for the data.



- O Positively (right) skewed
 - Negatively (left) skewed
 - Symmetric
- (b) (3 pts) Which of the following best describes the skew of the data?