MT 143, Quiz #1, Spring 2020 Name ______

Instructions: Show all work. Answers without work can only be graded all or nothing. Partial credit is available only when work is shown. Answer all parts of each problem. Provide explanations as indicated.

1. For each of the variables provided in the table below, indicate whether the variable is categorical or quantitative (if quantitative, is it discrete or continuous), and its level of measurement (nominal, ordinal, interval or ratio). Check the appropriate boxes.

Variable	Qualitative/	Quantitative	Discrete	Continuous	Nominal	Ordinal	Interval	Ratio
	Categorical							
Age								
(in years)								
Operating								
System								
Speed								
(mph)								
Number								
of People								
in								
Household								
Longitude								
Grade								
Level in								
School								
Annual								
Income								

2. Give an example of how data collection might qualify as a convenience sample.

3. Explain why convenience samples are unlikely to be representative of the population.