MTH 324, Quiz #1, Fall 2022 Name _____

Instructions: Answer each question as thoroughly as possible. Round answers to 4 decimal places as needed. Exact answers are best when possible. Be sure to answer all parts of each question.

1. Explain the difference between descriptive statistics and inferential statistics.

2. Describe the procedures for creating a systematic sample. Given an example of a situation in which it would be used.

3. For each of the following variables, identify whether the variable is i) categorical or numerical, ii) it's level of measurement (nominal, ordinal, interval or ratio), and if it is numerical iii) whether it is discrete or continuous (write NA if it does not apply).
   a. Social security number

   b. State of birth

   c. Level of agreement on a statement in a survey (agree, strongly agree, etc.)

   d. GPA

   e. Lifespan of a lightbulb in hours

4. What is the purpose of an institutional review board (IRB)?