

NAME: _____

MATH 1342 QUIZ

THROUGH SECTION 1.4

SHOW ALL WORK AND JUSTIFY ALL ANSWERS.

1. (2 points) Fill in the blank. Choose from the following words (NOTE: Not all words will be used)

variable	sample	proportion	parameter	population	data	statistic	mean
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(a) A subset of the population is a _____.

(b) A _____ is a number that represents a property of the population.

2. (3 points) Determine the correct data type. Circle your choice.

(a) the number of pairs of shoes you own **qualitative** or **continuous quantitative** or **discrete quantitative**

(b) the distance from your home to school **qualitative** or **continuous quantitative** or **discrete quantitative**

(c) the type of calculator you use **qualitative** or **continuous quantitative** or **discrete quantitative**

3. (5 points) Researchers want to investigate whether taking aspirin regularly reduces the risk of heart attack. Four hundred men between the ages of 50 and 84 are recruited as participants. The men are divided randomly into two groups: one group will take aspirin, and the other group will take a placebo. Each man takes one pill each day for three years, but he does not know whether he is taking aspirin or the placebo. At the end of the study, researchers count the number of men in each group who have had heart attacks.

(a) What is the population?

(b) What is the sample?

(c) What is the explanatory variable?

(d) What is the response variable?

(e) What are the treatments?