

Math 115 - Quiz 1

August 28, 2014

Name key

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (1 point) Voter registration records show that 78% of all voters in a county are registered as Democrats. Is 78% a statistic or parameter? Explain.

IT IS A PARAMETER BECAUSE IT REFERS TO THE ENTIRE
COLLECTION OF THE COUNTY'S REGISTERED DEMOCRATS.

2. (1 point) Identify the population and the sample: A study of 33,043 infants in Italy was conducted to find a link between a heart rhythm abnormality and sudden infant death syndrome.

Population: INFANTS IN ITALY

Sample: THE 33,043 INFANTS THAT WERE STUDIED.

3. (1 point) Are eye colors of models quantitative data or qualitative data?

QUALITATIVE

4. (1 point) The items below appear on a physician's intake form. Determine the level of measurement of each. Choose from *nominal*, *ordinal*, *interval*, or *ratio*.

(a) Body temperature INTERVAL

(b) Allergies NOMINAL

(c) Weight RATIO

(d) Pain level (scale of 0 to 10) ORDINAL

5. (1 point) Eight males and seven females are selected at random. Is this a simple random sample of size 15? Explain.

NO, NOT EVERY SAMPLE OF SIZE 15

IS EQUALLY LIKELY. FOR EXAMPLE,

A SAMPLE OF 15 FEMALES IS IMPOSSIBLE.