

Measurement & Variables Worksheet  
Psyc 201 II Dr. Root

Answer the following questions by indicating whether it is referring to a **population** or a **sample**.

1. A \_\_\_\_\_ is always *larger* than a \_\_\_\_\_.
2. The data that we actually analyze from our research comes from a \_\_\_\_\_.
3. \_\_\_\_\_ are represented with statistics and English letters (e.g.,  $\bar{X}$  and  $s$ ).
4. \_\_\_\_\_ are represented with parameters and Greek letters (e.g.,  $\mu$  and  $\sigma$ ).
5. The goal of research is to understand how variables behave at the \_\_\_\_\_ level.

Fill in the appropriate scale of measurement (**nominal**, **ordinal**, **interval**, or **ratio**) for the examples below. Think about how we would use numbers to represent each example.

6. Arm Span (in inches): \_\_\_\_\_
7. Score on a statistics test (0 – 100 scale): \_\_\_\_\_
8. Score on an attractiveness ratings questionnaire (1 – 5 scale): \_\_\_\_\_
9. Finish in a race: \_\_\_\_\_
10. Major in college: \_\_\_\_\_

Answer the questions below as they pertain to the hypothetical research study being described. Remember to not assume anything beyond what is being given (i.e., don't overthink it!).

11. A researcher studying how job training affects an individual's ability to maintain steady employment recruits a sample of soldiers returning from combat in the Middle East and randomly assigns them to either receive job training or no job training. She then follows them for a year and records the number of days they were able to maintain steady employment. Average days of employment were compared between the two groups.

- a. What is the **independent variable** (IV)? \_\_\_\_\_
- b. What is the scale of measurement for the independent variable? \_\_\_\_\_
- c. What is the **dependent variable** (DV)? \_\_\_\_\_
- d. What is the scale of measurement for the dependent variable? \_\_\_\_\_