

Activity 1

Name: _____

1. Form a group of 3 or 4 people. Meet with each person in your group individually and make your own measurements for each variable on every person in your group. This means you should get measured 3 or 4 times. **DO NOT** share your observations or measurements with other members of your group until everyone is finished measuring everybody else.

Notes for Measurements:

READ THIS BEFORE BEGINNING!!!

- Ask the names of each group member, and write it in the boxes at the top of the chart. Take your best guess at the spelling; do not ask anyone how to spell their name yet.
- For hair color, hair length, eye color, type of shoes, jewelry and belt, record your impressions of what you see for each group member.
- For height, use the tape measure or yardstick and record to the nearest $1/8^{\text{th}}$ inch- measure each person yourself, and record only your measurements.
- For major interests and attitude toward school, interview each group member **separately**, (no group interviews here!). Decide what questions to ask you think would tell you about her/his attitudes and interests. Record your impressions.
- When you have finished measuring everyone else in your group, and they have finished measuring you (each of them individually) record what you know about yourself in the last column.

| | | | | | |
|--|--|--|--|--|--|
| Name (First and Last) | | | | | |
| Hair Color | | | | | |
| Hair Length | | | | | |
| Eye Color | | | | | |
| Height | | | | | |
| Jewelry # of pieces | | | | | |
| Belt (Y or N) | | | | | |
| Type of Shoes | | | | | |
| Major Interests | | | | | |
| Attitude towards school | | | | | |

2. *You may now share your observations with your group.* Record the range of observations other group members made about **you**. For example, if 3 members of my group decided my hair was short and 1 person said medium, I would write: short to medium for the range. Leave the "True Measurement" column blank for now.

| Variable | Range of Observations | True Measurement |
|-------------------------------|------------------------------|-------------------------|
| Name Spelling | | |
| Hair Color | | |
| Hair Length | | |
| Eye Color | | |
| Height | | |
| Jewelry | | |
| Belt | | |
| Type of Shoes | | |
| Major interests | | |
| Attitude Toward School | | |

3. Decide as a group what rules you will use to determine the true measurement for each of the following variables. These must be rules that anyone could use and get the same measurements; they must be reliable measurements. Do not rely on survey questions for these variables, those will not be reliable. Be sure to consider exceptional cases: For example, colored hair or contact lenses, high heels or hairstyle in height, etc.

Name Spelling:

Hair Color:

Hair Length:

Eye Color:

Height:

Jewelry:

Belt:

Type of Shoes:

4. Which of the above variables are qualitative? Which are the quantitative? Of those, which are continuous and which are discrete?

Qualitative:

Discrete Quantitative:

Continuous Quantitative:

5. For the last two variables, determine survey questions that will determine the following. Use the guidelines we discussed in class to write unbiased survey questions.

Major Interests:

Attitude Toward School:

6. As a group, decide the true measurement for each group member using the rules and survey questions you created above. On the above chart, write down your true measurements using these rules. Which variables were easiest to determine rules for? Which were more difficult? Why?