Name: _____   Date: _____

Turning Observations into Data

Name the 6 variables that can be recorded from the picture on your card. What variable names could you use to represent these? Record your answers in the correct column below.

Numerical Variables	**Categorical Variables**
_____	_____
_____	_____
_____	_____

Part 2

Using the variable names you chose in Part 1, create a data table and use the first row to record the information about the person on your card.

Compare your card's values to your team members' and add their data to your table.
If there are extra cards left over, record those observations as well.

Name: _____   Date: _____

Turning Observations into Data

Consider the following research question:

What determines the number of friends a person has on social media?

Which variables do you think might be related to the number of friends a person has on social media?
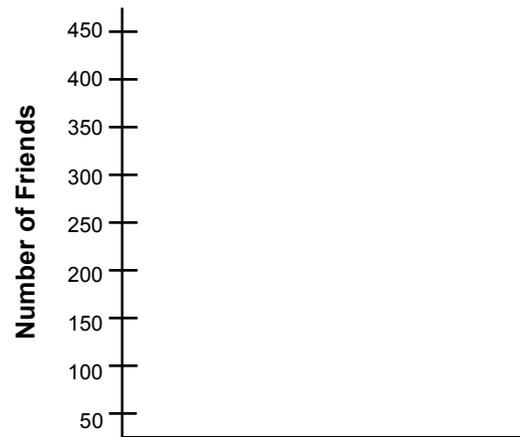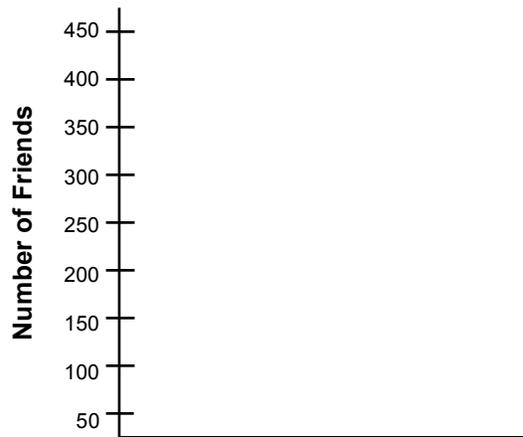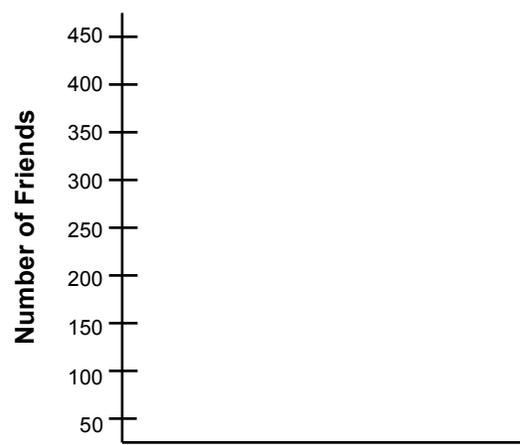
Example: **Sport Played**

_____   _____
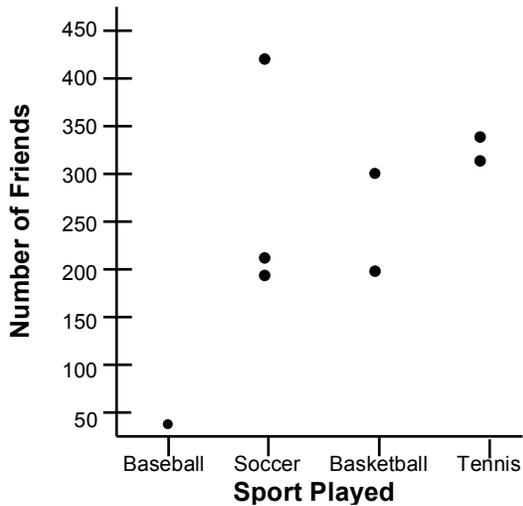
_____   _____

Create a few plots by hand using the data from Part 2 to investigate this question. Each plot should include 2 variables – # of friends, and one of the variables you selected.

Example plot:

Name:_____   Date:_____

Turning Observations into Data

Part 4

Which variable showed the strongest relationship to the number of friends?

_____

Describe how the two variables are related.

_____

_____

_____

_____

Do you believe that the number of friends a person has on social media can always be determined by the variable you selected? Explain.

_____

_____

_____

_____

Can you think of another variable (not necessarily given in the pictures) that might impact both the number of friends AND the variable you selected? Give an example and explain how it might impact each of the variables.

_____

_____

_____

_____