

## Lesson 1: Types of Variables

## Daily Data Collection

Each student will record the following information on the board:

Name, Gender, Grade, Age, How did you get to school today.

**Terms:**

**Individuals or Subjects:** The object being studied. Who is being studied? This can be a person, object, etc.

**Variable:** The characteristics of the individuals being studied. What information is needed about the object?

**Categorical Variable:** Describes the individual by placing them in a group or category. Examples – favorite color, race, state in which you were born. This does not typically take the form of a number and it does NOT make sense to find the center. This is sometimes referred to as a qualitative variable.

**Quantitative Variable:** describes the individual by assigning a numeric value. Examples – weight, height, IQ. This must take the form of a number and it DOES make sense to find the center.

Use the class data to answer the following:

Individuals:

Categorical Variables:

Quantitative Variables:

**Guided Practice:**

Owner	Car make	Car model	Car weight	Car color	Car top speed	Percent of production in the US
Tom	Honda	Civic	1800	Black	100	40%
Jack	Honda	Accord	2200	Red	115	50%
Lenny	Toyota	Camry	1900	White	105	60%
Ginny	Chevy	Cobalt	1750	Red	110	55%
Becky	Nissan	Rogue	2800	Blue	125	25%
Mike	Ford	Edge	2000	Silver	100	65%
Lori	Ford	F150	2600	Red	100	80%

Identify the individuals and the types of variables:

Whose car is the fastest?

Heaviest?

Most American?

Describe 3 other categorical variables and 3 other quantitative variables that would be appropriate.

**HW 1** Section 1-1 problems 1,3,5,7,8