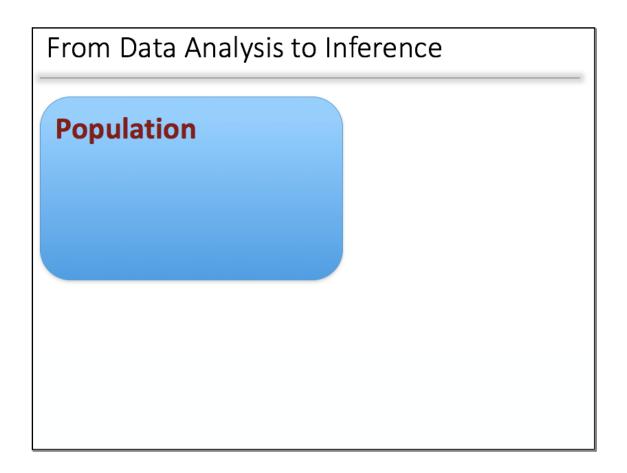
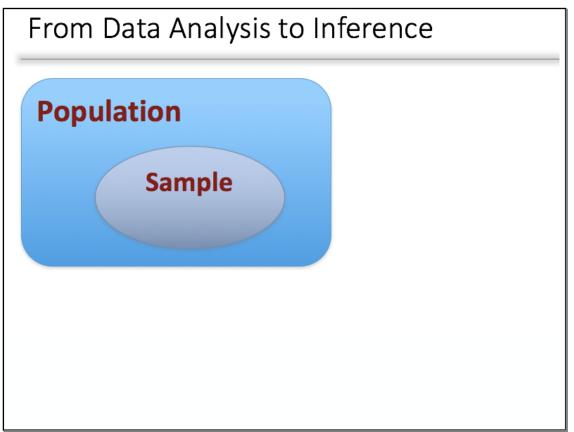


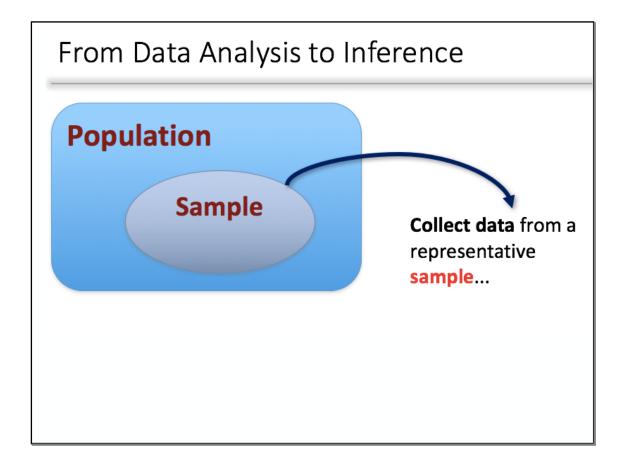
Agenda 1) Overview in Pictures of Ap Stats 2 Smell some shirts 3 Get to know each other (1) Boring stuff

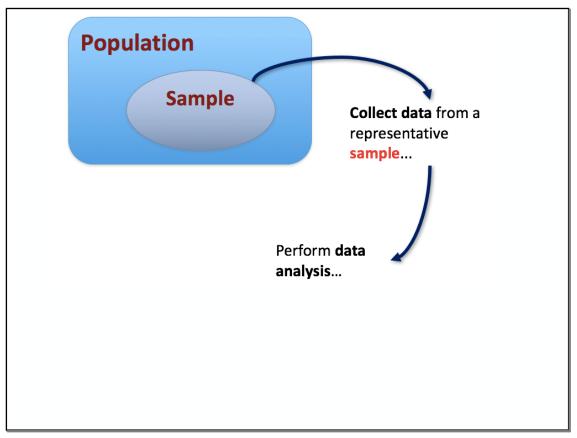
-Roll First Agenda 1) Overview in Pictures of Ap Stats 2 Smell some shirts 3 Get to know each other Per. 1 (1) Boring stuff Get textbook at 9:25

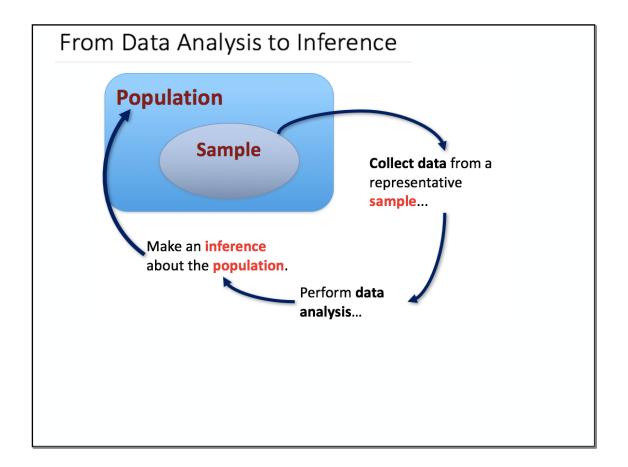
Roll first Agenda 1) Overview in Pictures of Ap Stats 2 Smell some shirts ③ Get to know each other 
④ Boring stuff
④ Boring stuff (1) Boring stuff

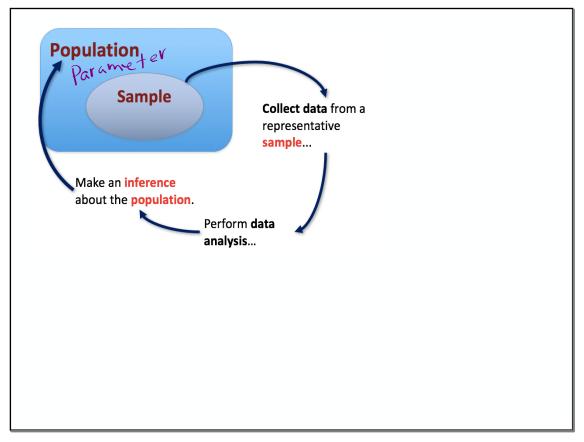


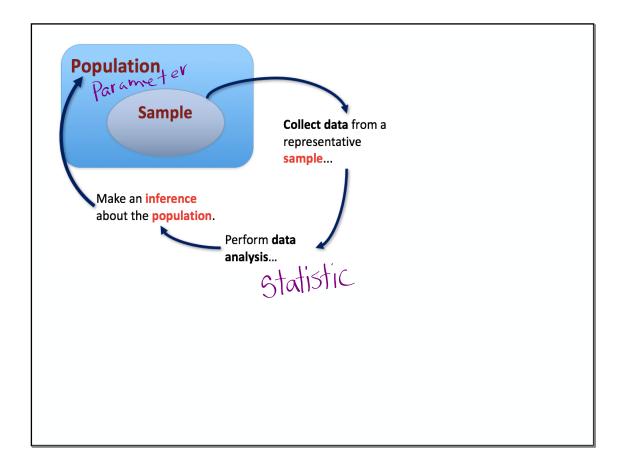


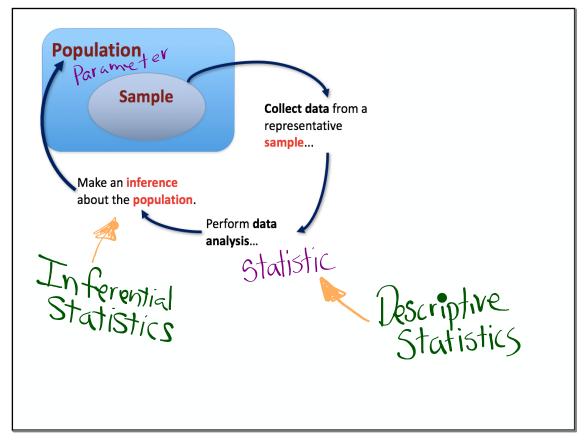


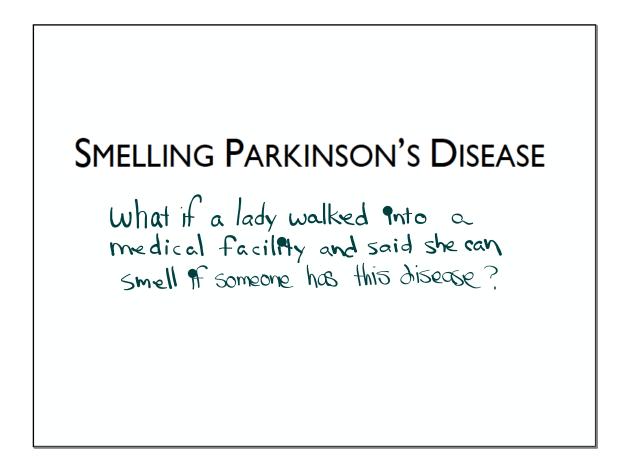








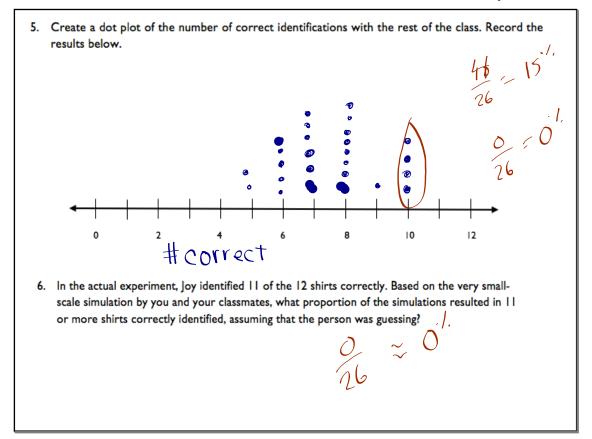




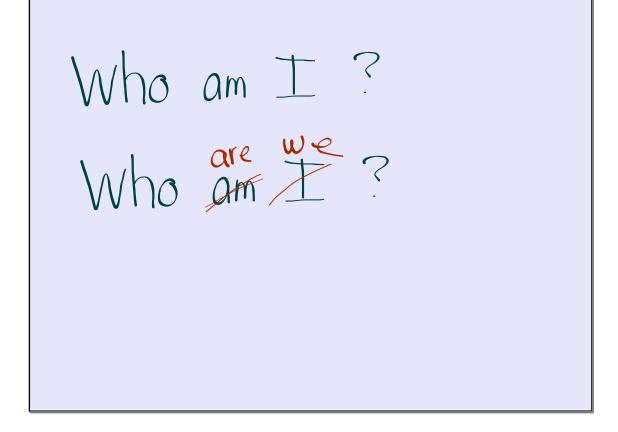
	١.	Why would it be important to know that someone can smell Parkinson's disease?
:	2.	How many correct decisions (out of 12) would you expect Joy make if she couldn't really smell Parkinson's and was just guessing?
:	3.	How many correct decisions (out of 12) would it take to <i>convince</i> you that Joy really could smell Parkinson's?

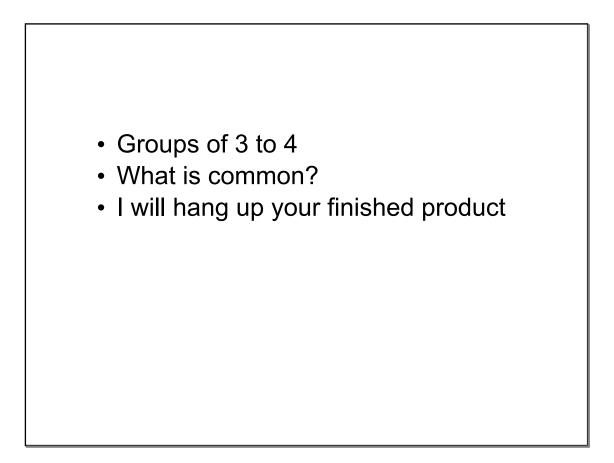
4. Mr. Wilcox will hand you 12 cards (shirts) that have been shuffled into a random order. Don't turn them over yet! On the back of some of them is "Parkinson's" and on the back of others is "No Parkinson's." For each card, guess Parkinson's or No Parkinson's. Once you have made your guess, turn the card over and see if you were correct. Repeat this for each card and record the number of correct identifications (out of 12) below.

Tally of correct identifications	Number of correct identifications	Proportion of correct identifications
	11 111	3/12









About AP Stats

## What is AP Statistics?

AP Stats is a college level introductory course in statistics. You'll learn how to collect, organize, analyze, and interpret data.

It is the fasting growing of all of the 37 AP subject areas with now over 108,000 students taking the exam.

## Why should I take it?

Statistics is the most widely applicable branch of mathematics. It is used by more people than any other kind of math.

#### **College Majors Requiring Statistics**

Statistics is specifically required in some majors, while it is a quantitative methods requirement in others.

#### AGRICULTURAL SCIENCES Kinesiology

Sciences Agricultural Business Agricultural Communication Agricultural Education Agricultural Mechanization and Business Agricultural Systems Management Agronomy Animal and Veterinary Sciences Animal Agribusiness Equine Business Preveterinary and Science Crop Science Culinary Science Dairy Science Fisheries and Aquatic Sciences Food Science Food Science and Technology Nutrition and Dietetics Forest Resource Management Forestry and Natural Resources Horticulture Plant and Environmental Sciences Plant Genetics Plant Science Soil and Water Sciences Wildlife and Fisheries Biology Wine and Viticulture

ALLIED MEDICAL PROFESSIONS rico Studio

Agricultural and Environmental Plant Movement and Sport Sciences Nursing Nutrition Occupational Health Occupational Therapy Pharmaceutical Sciences Physical Therapy Pre-Pharmacy Pre-Rehabilitation Sciences Respiratory Care Speech Language Hearing BUSINESS Accounting

> Actuarial Science Advertising Aviation Management Business Business Administration Construction Management Finance Financial Management Game Studies Information Science Management Marketing Operations Research Public Administration Recreation, Parks, and Tourism Administration ENGINEERING

Aerospace Engineering

Chemical Engineering Civil Engineering Computer Information Systems Computer Science Computer Software Engineering Construction Science and Management Electrical Engineering Engineering Management and Protection Environmental and Natural Resources Environmental Engineering Industrial Design Industrial Engineering Industrial Management Industrial Technology and Packaging Landscape Architecture Materials Science and Engineering Mechanical Engineering Packaging Science Robotics MATHEMATICS AND SCIENCE Animal Behavior Animal Science Applied Mathematics Applied Meteorology and Climatology Applied Physics

Astronomy

Atmospheric Science

**Biological Sciences** 

Brain and Behavioral Science

Geophysics Hydrogeology Marine Sciences Mathematical Sciences Mathematics Meteorology Microbiology Neuroscience Physics Planetary Science Pre-Health Pre-Veterinary Medicine Statistics SOCIAL STUDIES

Genetics Geology

#### AND THE HUMANITIES Anthropology

ASAL

Archaeology Child Development City and Regional Planning Communication Studies Comparative Ethnic Studies Criminal Justice Criminology Developmental and Family Science Economics Education Environmental Studies Film and Video Studies Geography Graphic Communications

## How hard is AP Stats?

It's a college course, so the expectations are <u>high</u>. You will need to think hard about the concepts. You'll write – a lot. You won't get a good grade just for showing up. You <u>must</u> have a strong work ethic.

# Do you have to be a top rate mathematician?

No. The course does not depend heavily on abstract mathematical concepts, but you DO need a <u>strong</u> <u>background (usually A's and B's )in</u> <u>Algebra II</u> – Our calculators will help us with much of the numeric drudgery inherent in statistics.

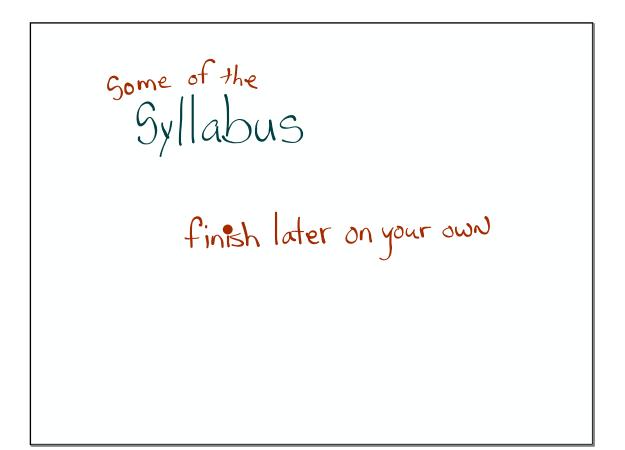
## Can I take Stats in college?

Yes. Statistics is required for many majors, and strongly recommended for others. However, we hope our students receive AP grades high enough to get credit for the introductory course. If not, you will have strong background before you start.

# Would it be my only math <u>course ?</u>

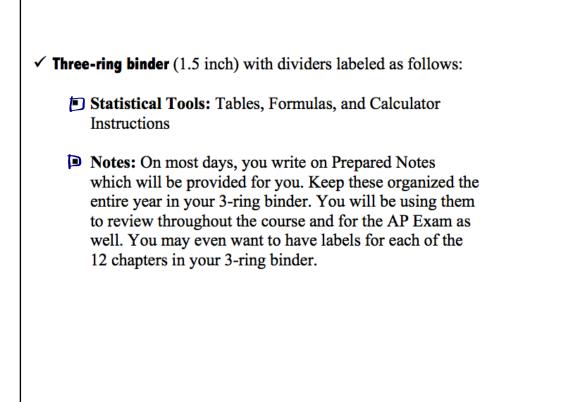
It could be. Many students could also enroll in a Pre Calc or Calculus course and find the combination very 'do-able'. It can be taken any time after Algebra 2. In any case, stats is not really a 'math' course – it's a whole different animal.

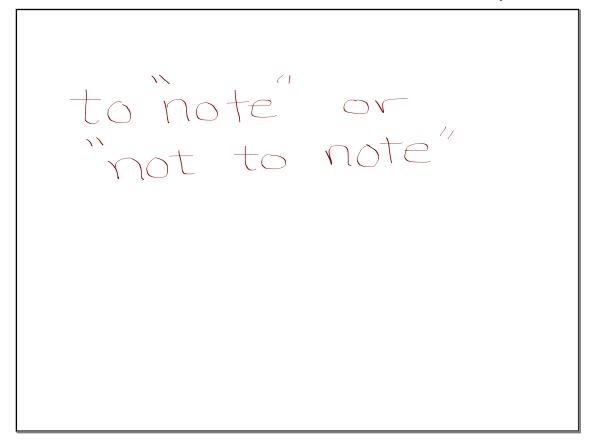




**Supplies:** 

- ✓ Textbook (The Practice of Statistics, AP Edition, 6th Edition, Starnes, Yates, & Moore, 2019)
- ✓ Strive for 5 which is a softcover review book. DO NOT write in this book.
- Calculator MANDATORY, no exceptions with statistical functions (TI-83 or 84)

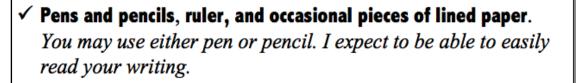




to note or "not to note (It would make more sense to add your own notes to the structured notes after you have read the textbook.

**Three-ring binder** (1.5 inch) with dividers labeled as follows:

- Statistical Tools: Tables, Formulas, and Calculator A Instructions
- C speaking Notes: On most days, you write on Prepared Notes which will be provided for you. Keep these organized the entire year in your 3-ring binder. You will be using them to review throughout the course and for the AP Exam as well. You may even want to have labels for each of the 12 chapters in your 3-ring binder.



Strave for small, but neat, writing

Jerview

### LEARNING TARGETS

By the end of this section, you should be able to: ✓ IDENTIFY the individuals and variables in a set of data.

✓ CLASSIFY variables as categorical or quantitative.

[] post L.T. on side board.

## **Organizing Data**

**Statistics** is the science and art of *collecting*, *analyzing*, and *drawing conclusions* from data.

Normally there will be a variety of experiments, simulations, examples. discussions, activities to help you accomplish learning targets. -but today you are on your own. -take notes as needed, from the textbook.

## Organizing Data

**Statistics** is the science and art of *collecting*, *analyzing*, and *drawing conclusions* from data.

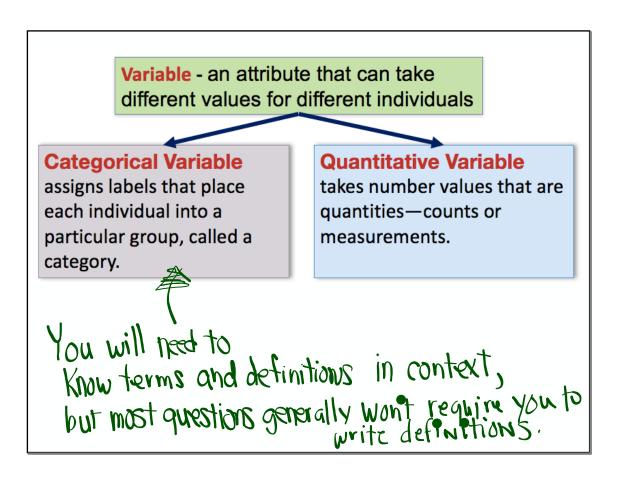
An **individual** is an object described in a set of data. Individuals can be people, animals, or things.

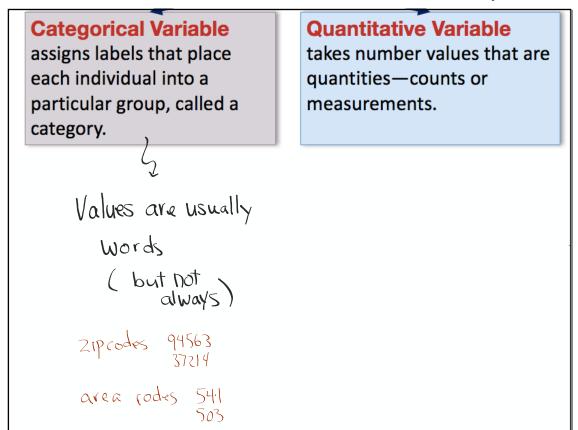
## Organizing Data

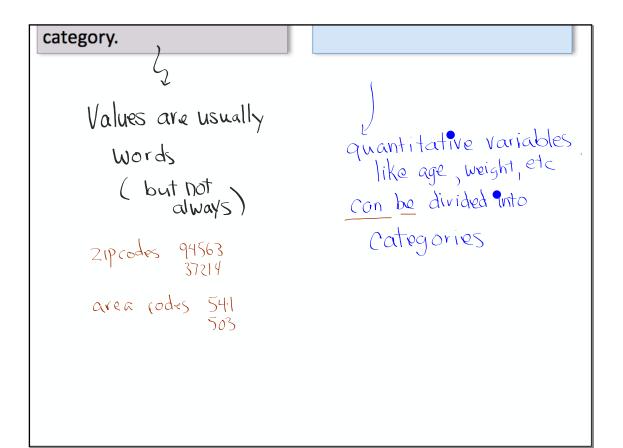
**Statistics** is the science and art of *collecting*, *analyzing*, and *drawing conclusions* from data.

An **individual** is an object described in a set of data. Individuals can be people, animals, or things.

Variable an attribute that can take different values for different individuals





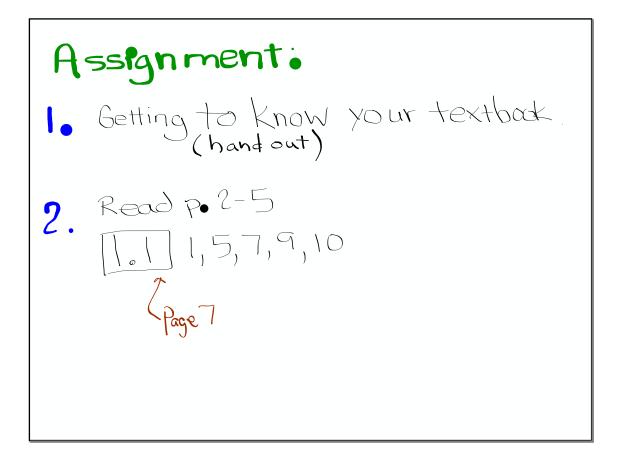


it depends on how you want to use the variable

			Data		Var	iables	
Province	Gender	Number of languages spoken	Handedness	Height (cm)	Wrist circum- ference (mm)	Preferred communication	Categorical variable "Preferred
Saskatchewan	Male	1	Right	175.0	180	In person	communication method"
Ontario	Female	1	Right	162.5	160	In person	-
Alberta	Male	1	Right	178.0	174	Facebook	
Ontario	Male	2	Right	169.0	160	Cell phone	
Ontario	Female	2	Right	166.0	65	In person	
Nunavut	Male	1	Right	168.5	160	Text messaging	
Ontario	Female	1	Right	166.0	165	Cell phone	
Ontario	Male	4	Left	157.5	147	Text messaging	
Ontario	Female	2	Right	150.5	187	Text messaging	
Ontario	Female	1	Right	171.0	180	Text messaging	

#### September 04, 2019

Province Gend Saskatchewan Male Ontario Fema Alberta Male Ontario Fema Nunavut Male Ontario Fema Ontario Male Ontario Fema Ontario Fema Ontario Fema	ale 1 male 1 ale 2 male 2 ale 1 male 1 male 4	ges	Height (cm) 175.0 162.5 178.0 169.0 166.0 168.5 166.0 157.5	Wrist circum- ference (mm) 180 160 174 160 65 160 165	Preferred communication In person Facebook Cell phone In person Text messaging Cell phone		Categorical variable "Preferred communication method" individuals are the vows
Ontario Fema Alberta Male Ontario Male Ontario Fema Nunavut Male Ontario Fema Ontario Male Ontario Fema	male 1 ale 1 ale 2 male 2 ale 1 male 1 ale 4	Right Right Right Right Right Right	162.5 178.0 169.0 166.0 168.5 166.0	160 174 160 65 160 165	In person Facebook Cell phone In person Text messaging Cell phone	× ×	
Alberta Male Ontario Male Ontario Fema Nunavut Male Ontario Fema Ontario Male Ontario Fema	ale 1 ale 2 male 2 ale 1 male 1 ale 4	Right Right Right Right Right	178.0 169.0 166.0 168.5 166.0	174 160 65 160 165	Facebook Cell phone In person Text messaging Cell phone	× L	> individuals are
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Ontario Fema Nunavut Male Ontario Fema Ontario Male Ontario Fema	male 2 ale 1 male 1 ale 4	Right Right Right	166.0 168.5 166.0	65 160 165	In person Text messaging Cell phone	K	> individuals are
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Ontario Male Ontario Fema	ale 4	*					
Ontario Fema		Left	157.5	4.47	<b>-</b>		
	malo 2			147	Text messaging	. /	the vous
Ontario Fema	illale Z	Right	150.5	187	Text messaging	K	
	male 1	Right	171.0	180	Text messaging		-

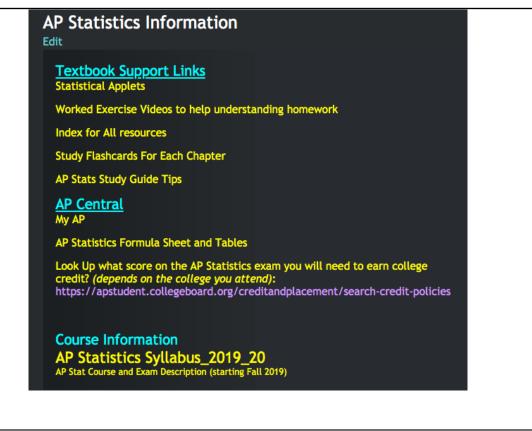


### **Daily Assignments**

Algebra 2A Assignments Algebra 2B Assignments AP Statistics Assignments IB-Math Studies Assignments Uncategorized

#### **AP Statistics**

AP Statistics Information AP Stats Extra Help Videos AP Stats Exam Preparation



# AP Statistics - Period 1 AP

Stats

**Teacher: Vern Cedarlund** 



To enroll in this section online, sign into https://myap.collegeboard.org and enter the section join code AP Statistics - Period 5 AP Stats

Teacher: Vern Cedarlund



To enroll in this section online, sign into https://myap.collegeboard.org and enter the section join code