Research Methods

Section 1

- Definition of Science
- Fundamental Bases of Knowledge
 - Agreement Reality
 - Experimental Reality

Methodology

Difference between human inquiry and social science research

- Desire to predict the future.
- Cause and Effect
- Myths

Actual Behavior

Dangerous

Predicted Behavior

Dangerous: Optimal

Not Dangerous

False Positive

(alpha error)

(Type 1 error)

Not Dangerous

True Positive

(beta error)

(Type 2 error)

Optimal

Start Here for Paper Topic

Errors in personal inquiry versus logical social scientific research

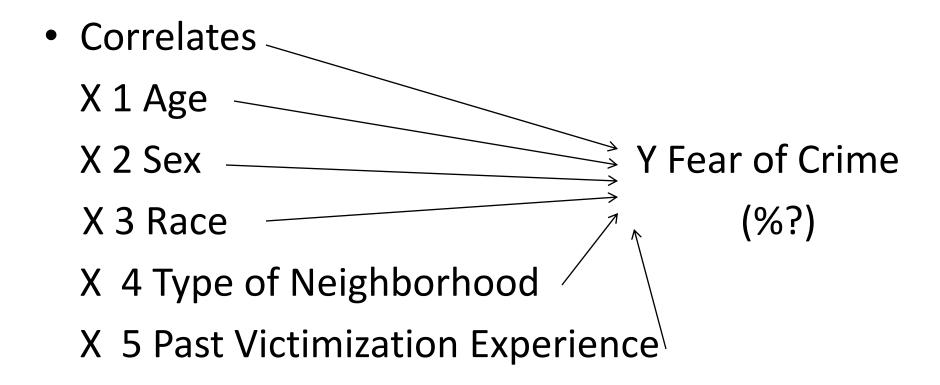
- Inaccurate Observation
- Over Generalization
 - H₁ Person is Dangerous
 - H₀ Person is not Dangerous
 - False positives AKA Alpha Error (Type 1 Error)
 - True positive AKA Beta Error (Type 2 Error)
- Replication
- Generalization

- Selective Observation
 - Liberal people are less in favor of the death penalty
 - Representativeness
 - Deduced Information

- Illogical Reasoning
 - Gambler's Fallacy
 - Ego Involvement
 - Premature Closure of Inquiry
 - The Mystification of residuals

Height	Weight
5 '	110
5′5″	130
6'	150
6'5 "	115

Theoretical Modeling



Time Ordering

- Antecedent Variables
 - X Delinquency
 - Y Days Truant
 - Z Living Below Poverty Line

$$ZX-Y = 10\%r$$

$$ZY - X = 20\%r$$

$$XY = 0\%r$$

Intervening Variables

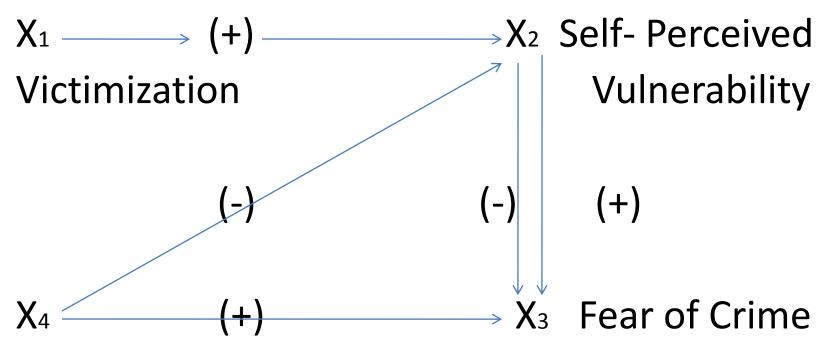
- X Alcoholism
- Y Domestic Violence
- Z- Divorce

$$X \longrightarrow Y \longrightarrow Z$$

- X- Income
- Y Truancy
- Z- Delinquency

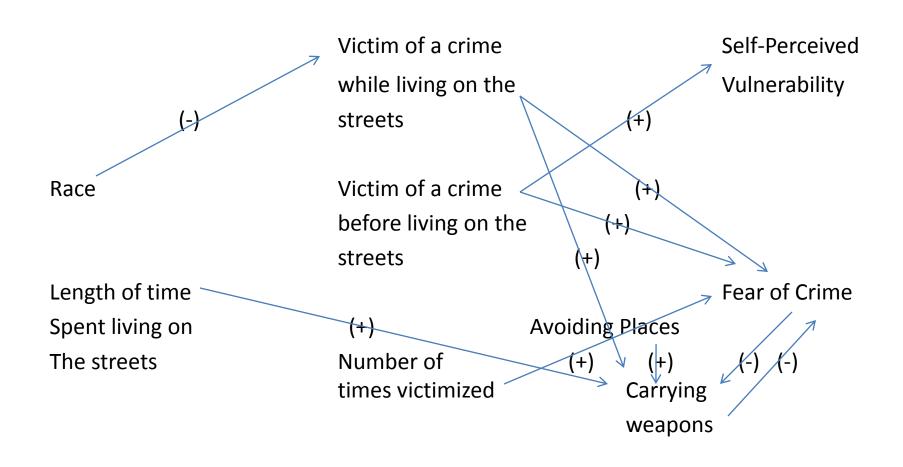
$$X \longrightarrow Y \longrightarrow Z$$

Multiple Variables (Time Ordering)



Use of Protective Behaviors

Picture of Correlated Variables



Science is characterized as:

Logic – Empirical

Science Involves:

- 1. Theory
- 2. Aggregates not individuals
- 3. Attributes
- 4. Variables
- 5. Independent Variables (X)
- 6. Dependent Variables (Y)

Fear of crime (Y) is influenced by: Sex (X1), Age (X2), Race (X3)

Juvenile Delinquency (Y) is influenced by:

Broken homes (x1), Lack of Parental Discipline (x2), Poverty (x3)

Opinions on the Death Penalty (Y) are influenced by:

Political party orientation (x1), Age (x2), Sex (x3), Education (x4), Income (x5)

Review of Literature

Hypothesis(es)

- Research Hypothesis (н1)
- Alternative Hypothesis (HO) A.K.A. Null Hypothesis

```
Intersubjectivity
  Shared Meaning of Concepts
Models of Explanation
  Idiographic
  Nomethetic
  Wealth → Conservatism
   (x)
                 (Y)
Indicators of;
```

Exercise:

Scholar's have shown that prior criminal record, Education and sex are excellent predictors of the sentencing severity for these present offenses.

- ID X's
- ID Y
- H₁
- $-H_0$
- Attributes of Variables
- Subset of Hypothesis

- H₁ There is such a thing as a criminal career
 H₀ There is no such thing as a criminal career
 Inductive and Deductive Logic
 - Reality
 - Subjectivity
 - Intersubjectivity
 - Observations

People who smoke Marijuana tend to get poor grades in school

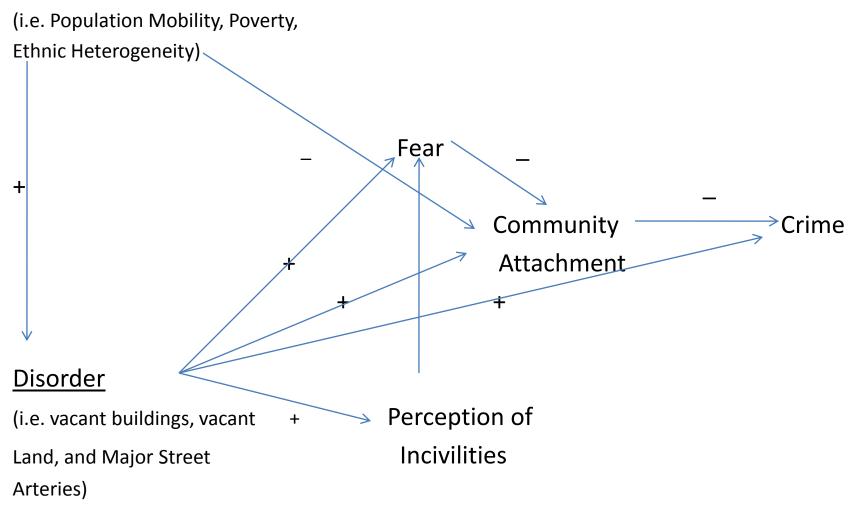
<u>Cite</u>	Research Hypothesis	<u>Independent</u>	<u>Measurement</u>
Coston, C.(1992)	Older people>Fear	<u>Variables</u>	of I.V.
"Fear Among the	Females > Fear	Age	18-99
Elderly". <u>Social</u>	Minorities > Fear	Sex	M=1; F=1
Problems. Vol.16	,	Race	M=0; NM =1
No. 4, 100-110.			

<u>Dependent</u>	<u>Measurement</u>	<u>Research</u>		<u>Description</u>	
<u>Variable</u>	Of D.V.	<u>Method</u>	<u>N</u>	of N	
Fear of Crime	How much do you	Survey	2000	Residents in	
	worry about becoming			New York City	
	the victim of a crime?				

Statistics	<u>Limitations</u>	<u>Findings</u>
&	Cannot Generalize	0>Y
Chi Square	to the entire State	F>M
	of NY nor the entire US	M> NM

Integrated Theory Model

Social Disorganization



Research Methods

Section 2

Research Methods

Purposes of Research

- Exploration
- Description
- Explanation

Units of Analysis

- Ecological Fallacy
- Reductionism

Time Dimension

- -Cross-Sectional
- Longitudinal
 - Trend
 - Cohort
 - Panel

Conceptualization

H1 There is such thing as a Criminal Career

HO There is no such thing as a Criminal Career

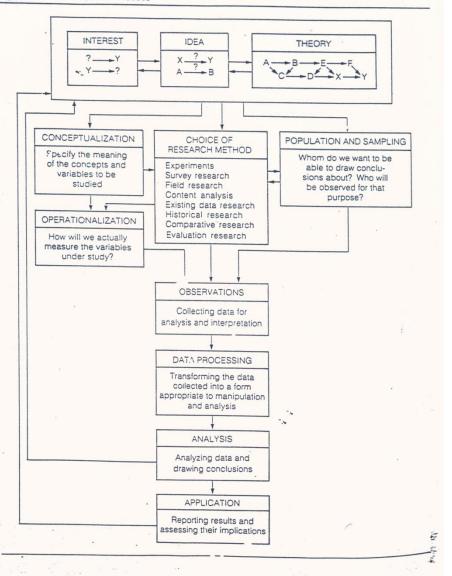
Attributes (Real Definition)

Nominal Definition

Operational Definition

- --Precision
- -- Accuracy
- -- Reliability
- -- Validity

Figure 4-1 The Research Process



Appendix A: Questionnaire/Coding Scheme Instructions

Case Identification		1-3
What is your age?		4-5
Sex		
0 = Male		
1 = Female		
2= Other		6
(Please specify)		
Race		
0 = Non-Minority		
1= Minority		7
Type of Neighborhood		
0 = Urban		
1= Suburban		
2 = Rural		8
Have you ever been the victim of a C	Crime?	
0 = No		
1= Yes		9

Welcome, and thanks for taking our survey!

This short survey should take you just a few minutes to complete.

As a thank you for your participation, when you complete the survey, you'll have the opportunity to enter our monthly sweepstakes for a chance to win \$1,000! No purchase is necessary; sweepstakes is open only to U.S. residents 18 and older. Please see the Official Rules for full details.

Surveys like these help Yahoo! and its advertisers understand how people like you are using the World Wide Web and certain products.

Yahoo! will not release any of the personal information collected from you in this survey or use it to advertise or sell to you. (Please read <u>Yahoo's privacy</u> policy to learn how we use the personal information collected in this survey.)

When you submit your completed survey, you will have the opportunity to submit an online entry for the sweepstakes. You must answer ALL questions on the survey, as well as provide all information required in the sweepstakes entry form, to be eligible to enter the sweepstakes online (click here to learn how to enter the sweepstakes without taking the survey).

Please note that if you choose to enter the sweepstakes, Yahoo! will use the personal information you provide in the sweepstakes entry form as outlined in the official sweepstakes rules.

By participating in this survey, you affirm that you are at least 13 years of age.

OK, let's get started!

Operationalization

Levels of Measurement

Nominal

- Mutually Exhaustive Categories
- Mutually Exclusive Categories

Ordinal

Interval

Ratio

Guidelines for asking questions:

Questions and Statements

Open-Ended and Closed-Ended

Make items clear

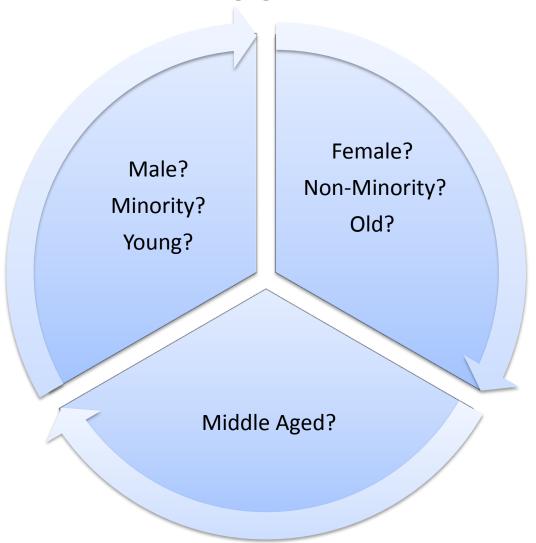
Short items

Avoid Biased Items

Avoid Double-Barreled Questions

Social Desirability

Table 1: Pie Chart for Age, Race, and Sex

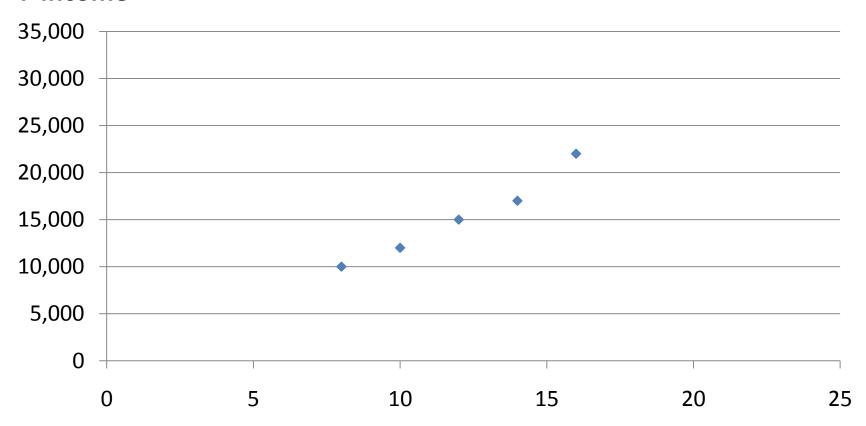


Graphs

Ratio/Interval Level Data

X	<u>Y</u>
Education	Income
(In Years)	(\$ Per Year)
8	10,000
10	12,000
12	15,000
14	17,000
15	18,000
16	22,000

Y-Income



(X) = Education

(+) Positive Relationship

Aggression by Gender

Gender

Aggression

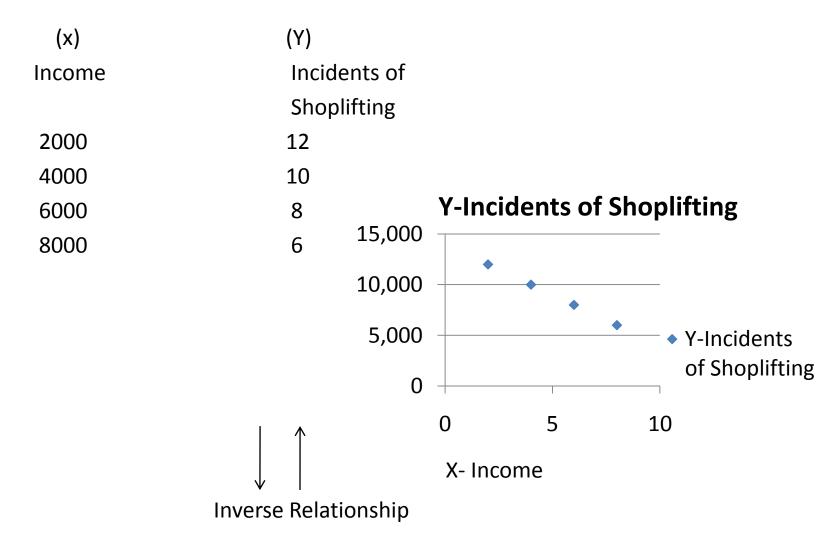
	Male	Female	Total	
Low	15	50	65	
High	50	15	65	
Total	65	65	130	

<u>Tables</u> Nominal & Ordinal

Table 1: Political Party Orientation by Opinions on the Death Penalty

Opinions on	Political Party		
Death Penalty	(X)		
(Y)	Age/Sex	Age/Sex	
	Liberal/Young	Conservative/O	ld Total
	Male	Female	
Oppose	500	250	750
Favor	250	500	750
Total	750	750	1500

Incidents of Shoplifting By Combined Family Income



Types of Scales & Indices

Likert Scale:

Strongly Agree, Agree, Disagree, Strongly Disagree, Undecided

Semantic Differential:

Bogardus Social Distance Scale:

Are you willing to permit homosexuals to:

5=Live in your country

5= Live in your state

4= Live in your community

3= Live in your neighborhood

2= Live next door

1= Would you object to your son or daughter being involved with a homosexual

Thurstone Scaling

Guttman Scaling

Index-Construction Logic

Here are several types of political actions people may have taken. By and large, the different actions seem to represent similar degrees of political activism. To create an index of overall political activism, we might give people 1 point for each of the actions they've taken.

Wrote a letter to a public official

Signed a political petition

Gave money to a political cause

Gave money to a political candidate Wrote a political letter to the editor

Persuaded someone to change their voting plans

Scale-Construction Logic

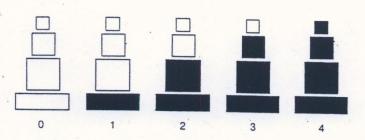
Here are some political actions that represent very different degrees of activism: e.g., running for office represents a higher degree of activism than simply voting. It seems likely, moreover, that anyone who has taken one of the more demanding actions would have taken all the easier ones as well. To construct a *scale* of political activism, we might score people on the basis of which of the following "ideal" patterns comes closest to describing them.

Ran for office

Worked on a political campaign

Contributed money to a political campaign

Voted



Appendix Of Survey Examples

Research Methods

Section Three

Survey Research

Advantages

Disadvantages

Types of Surveys

- Self-Administered
- Interviewer
- Telephone

Unobtrusive Research Methods

Content Analysis

- -Advantages
- -Disadvantages
- -Manifest and Latent Content

Historical and Comparative Analysis
Secondary Analysis
Existing Statistics
Evaluation Research

Experimental Research

Classical Experiment:

3 Pairs of Components
Independent and Dependent Variables
Experimental and Control Groups
Pretesting and Post Testing

1. Independent and Dependent Variables

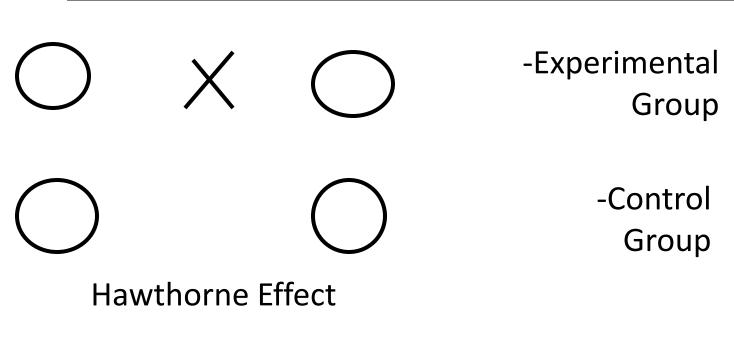
H₁ Anti-Black prejudice depends upon the lack of knowledge about the contribution of blacks.

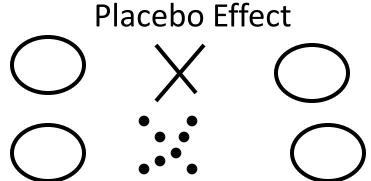
$$X \longrightarrow Y$$

2. Pretesting and Post Testing

Prejudice Prejudice Film About Contributions Of Blacks Intervention Pretesting Post Test

3. Experimental and Control Groups





Double-Blind Experiments

Problemed Studies

X O – One Shot Case Study

O X O – One Group Pretest/ Post Test

X O – Static Group Comparison

O

Internal Validity

External Validity Solomon 4-Group Design **Advantages of Experiments**

Disadvantages of Experiments

Field Research

Advantages Disadvantages

Roles of the observer

- Complete Participant
- Participant-As-Observer
- Observer-As-Participant
- Complete Observer

Tearoom Trade

Phenomenology

-Verstehen

-Weltan Schaung

- Ethnography

-Tabula Rasa

- Lebenswelt

Research Methods

Section Four

Month One Through Three

- Meet with funding source
- Purchase office supplies
- Set up research office
- Review applications for coders and secretary and make selection
- Train secretary and coders
- Administer Pilot Study
- Send quarterly report to funding source
- Conduct literature review

Month Four Through Six

- Further train coder in computer programs if needed
- Develop Research Strategies
- Consult with BMV, Board of Elections, and Cleveland County Tax Offices for sampling population
- Develop a list of the participants and their addresses of the survey and put in database
- Send quarterly report to funding source

Month Seven Through Nine

- Contact postal services for needed supplies
- Obtain business reply permits
- Finish developing final aspects of questionnaire
- Send quarterly report to funding source

Month Ten Through Twelve

- Mail questionnaires to appropriate residents
- Obtain vouchers in preparation of mailing.
- Send quarterly report to funding source

Month Thirteen Through Fifteen

- Prepare for incoming questionnaires
- Familiarize coders with computer software
- Do trail test to insure computer software reliability
- Send quarterly report to funding source

Month One

- Finalize contract for office space
- Obtain funds and begin purchase of office equipment and supplies
- Office equipment/ furniture in place no later than mid-month
- Make selection of staff and conduct staff orientation:
 - Benefits
 - Salary
- Telephone service connected
- Copy machine and computer equipment in place and operating
- Prepare and submit all letters of request for access to official records
- Meet with Charlotte-Mecklenburg Chief of Police to gain access to personnel list and records

Month Two

- Train research assistants on coding for/code book
- Follow up letters to agency for access to information
- Prepare and submit research design
- Begin recording data from records. This will be done in the human resources conference room at the Law Enforcement Center (records must not be removed for the police department)

Month Three

End of First Quarter

- Prepare and submit quarterly report of activities during the first quarter
- Meet with funding source (Charlotte-Mecklenburg Police Department) and present oral report for quarterly activities
- Critique/feedback session with staff to assess further training need, or other issues

Month Four

- Continue to record data
- Input coded data into computer (data entry specialist)
- Prepare and submit a financial status report to the the Charlotte/ Mecklenburg Police
 Department (funding source)

Finalize all input of data Compile final data Begin to analyze data First draft of final report

Month Six

End of Second Quarter

- Prepare final report
- Present report to Funding source
- Make all travel arrangements to Louisville, Kentucky
- Present report to the annual meeting of the Academy of Criminal Justice Sciences in Louisville, Kentucky
- Close down research operation
 - Release staff member/issue final salary payment
 - Turn in all leased equipment
 - Turn over all other office furniture, computer equipment, supplies o the university.

Month Sixteen Through Eighteen

- Start processing data from received questionnaires
- Use appropriate time to insure processing reliability
- Send quarterly report to funding source

Month Nineteen Through Twenty-One

- Finish processing data from received questionnaires
- Check for errors within data
- Send dollar vouchers to appropriate respondents
- Send quarterly report to funding source

Month Twenty-Two Through Twenty-Four

- Develop a consensus from data collected
- Determine if main hypothesis was accurate or form an alternative hypothesis
- Present findings to appropriate sources
- Meet with funding source for final conference
- Send final quarterly report to funding source
- Prepare journal article
- Go to Conference of American Society of Criminology in Atlanta, Georgia
- Present Research Paper

The Mean



-Each Observation

-Sample Size

Example: # of Hours of TV watched per week

3

5

3

4

<u>5</u> 20 = 4 Hours of TV

(20 divided by 5)

Example: Average Age

20
21
23
21
18

Variance and Standard Deviation

$$\sum \frac{\left(\times - \times \right)^2}{\mathbb{N}} \equiv \mathbb{S}^2$$

$$\mathbb{S}^2 = \mathbb{S}$$

$$\begin{array}{c|ccccc}
 & \times & \times & \times \\
 & 20 - 21 = 1 & 1 & 1 \\
 & 21 - 21 = 0 & 0 & 0 \\
 & 23 - 21 = 2 & 4 & 0 \\
 & 21 - 21 = 0 & 0 & 0 \\
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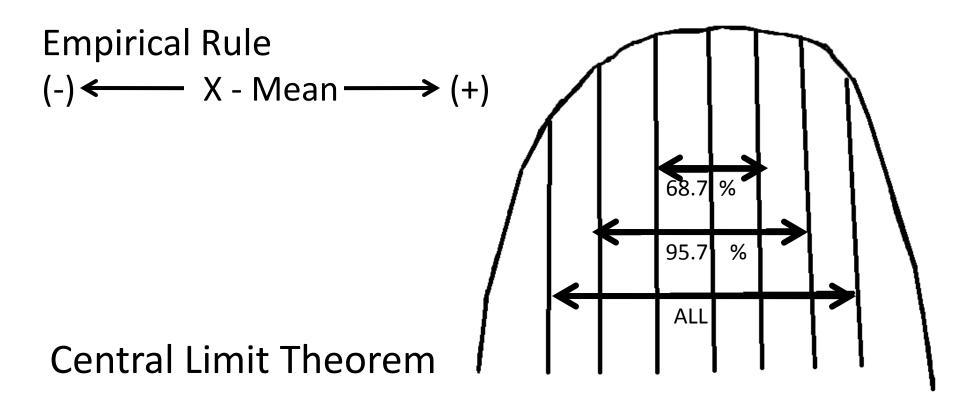
18 divided by $6 = 3 = S^2$ (Variance)

$$\sqrt{S} = \sqrt{3} = 1.73 = S$$

Sampling

Probability sampling methods:

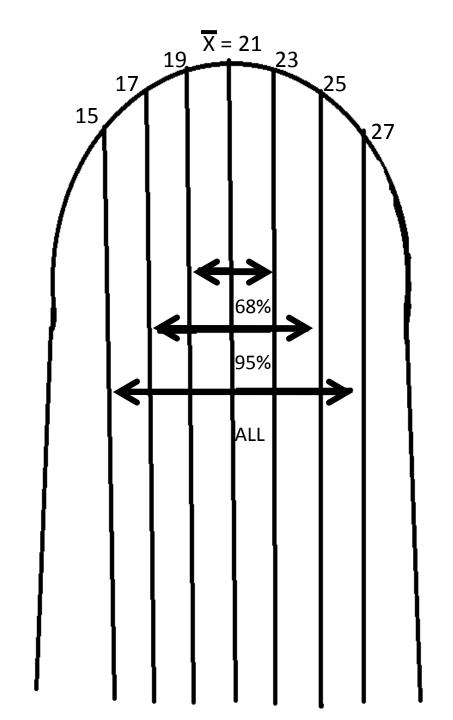
- Randomness
- -Representativeness
- -Generalize



$$S = 2$$

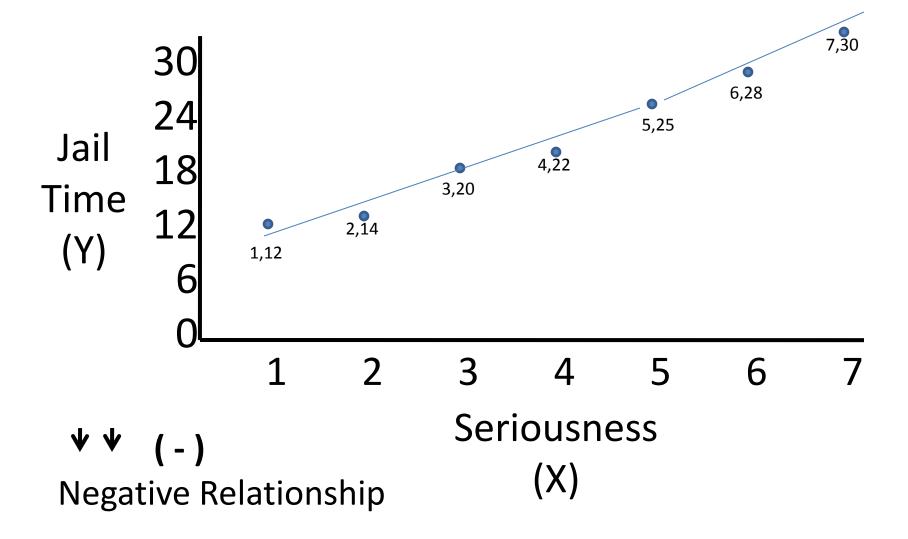
Likelihood of someone who is 30 years old in the sample?

Not likely since the 3rd standard deviation contains ages from 15-27.



The less serious the felony, the less the amount of jail time.

Seriousness of Felony			
(Least serious = 1,		Jail Time	
To most serious =7)		(In months)	
X	_	Υ	
•Murder	7	30	
•Rape	3	20	
Robbery	5	25	
Agg. Assault	6	28	
Burglary	1	12	
Larceny/	2	14	
Grand Theft Auto	4	22	



Research Methods

Section 5

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Analysis of the Data

Theory ------> Research ------> Statistics

Statistics

- Descriptive
- Inferential

Statistical Inference

- 2 Types of Statistical Variables
 - Quantitative
 - Qualitative

Descriptive Statistics:

Ratio, Proportion, Percentage, Rate

```
# of males in federal prison = 16,000
# of females in federal prison = 10,000
Total = 26,000
# of residents in Cincinnati, Ohio = 10,000
# of murders in Cincinnati, Ohio in 1992 = 100
Ratio of Males to Females = 16,000/ 10,000
  for every 160 males there are 100 females, or
  1.6 to 1
```

Proportion of males/females =

of males and females

of females

of males and females # of males and females

 $\frac{16,000}{26.000} = .62$

 $\frac{10,000}{26,000} = .38$

Percentage = $100 \times .62 = 62\%$

 $100 \times .38 = 38\%$

Table 1

Demographic Characteristics Of the Sample

Characteristic	Percent	N
Race		
White	46%	92
Black	44%	88
Other	5%	10
Education		
HSG	61%	122
EUT	46.5%	93
Some College	30%	59
College Degree	11.5%	23

Measures of Central Tendency Locate the Center

Example: 62,73,73,78,86,89,90,95

Mode: 73

Median:

Odd number of measurements-

Take out 73 and it is 86

Even number of measurements-

Take 2 middle scores <u>78 + 86</u> = 82

2

Mean:
$$\sum \frac{X}{N} = 646/8 = 86$$
 $\overline{X} = 86$

Measures of Dispersion

Describe the spread of observations around the mean.

Range: Difference between the highest and the lowest measure -95 - 62 = 33

Variance: The deviation of the scores form their mean. (S²)

Standard

Deviation: on the average how much of a difference is there form the mean.

$$S = \sqrt{S^2}$$

Murder Rate in Cincinnati, Ohio For 1992

of Actual occurrences of murder
of Possible occurrences of murder

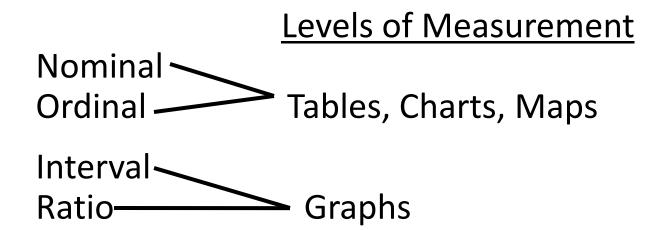


Table 1a: Pie Chart for Involvement in Animal Cruelty, Age Gender, Race History of Family abuse and Family Status

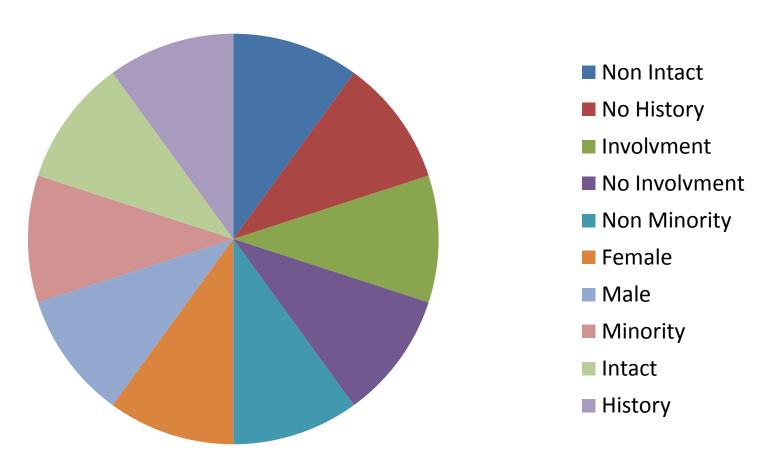


Figure 2: Distributions for Education & Age (Interval Ratio & Ratio Level Data) OK to use Ordinal Level data if units are 5 or more

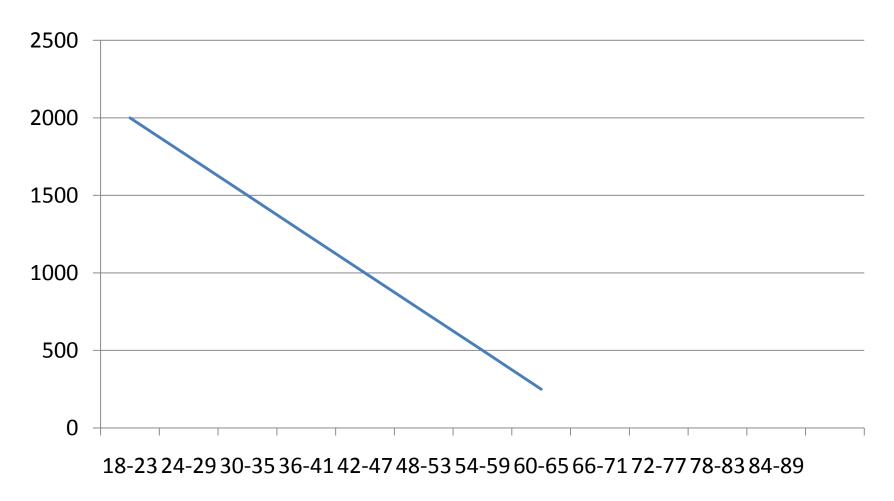
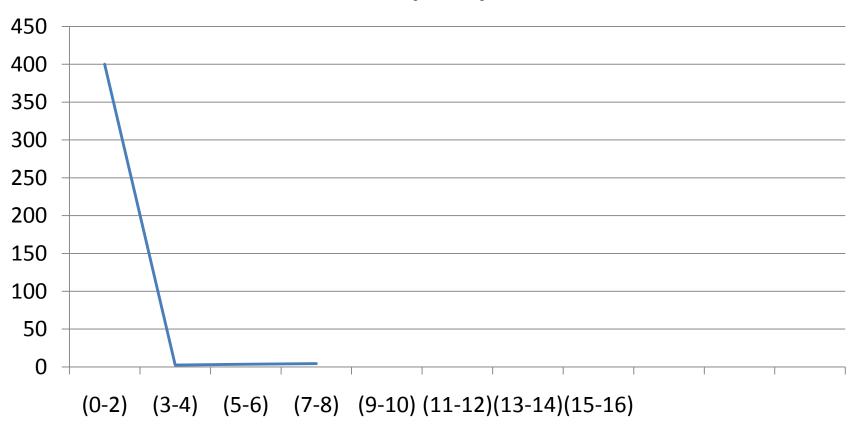


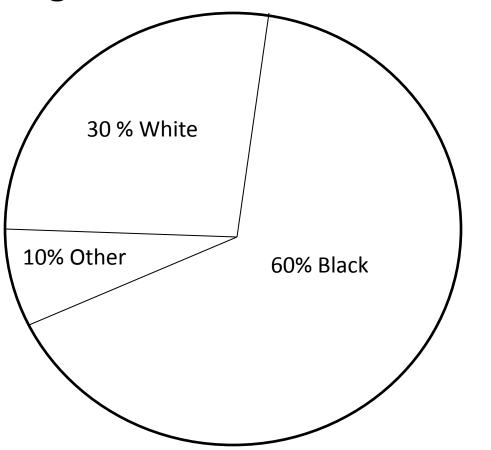
Figure 1b: Age Distribution

Frequency



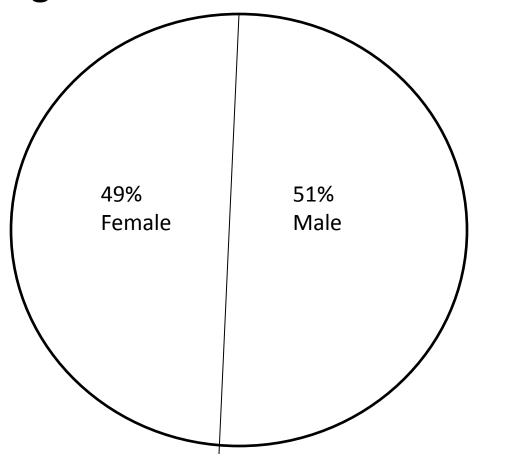
Pie Charts

Figure 1: Pie Chart for Race



Pie Charts

Figure 2: Pie Chart for Gender



Inferential Statistics

4 Parts of a statistical test

H₁ - Males > aggressive that females

H_o - There is no relationship between gender and aggression

Test Statistic -
$$X = \sum \frac{(f_o - f_{\epsilon})^2}{f_{\epsilon}}$$

Rejection Region - .05 at 1df

Aggression

Gender

	Male	Female	Total
High	200	200	400
Low	150	450	600
Total	350	650	1000

$$X^2 =$$
; .05 at 1df; $\phi =$

Relationship Between Animal Abuse and Child Physical Abuse in Mecklenburg County Based Upon Involvement in Animal Abuse, Race, Family Status, Age, Gender and History of Family Physical Abuse.

Child	Physical	Abuse
-------	----------	-------

Total

Young Old

Male Female

No History History

No Involvement Involvement

Non Minority Minority

Non Intact Intact

Not Involved

Involved

$$X^2 = ?$$
 .05 at 1 df = .00373 0 = ?

200	200	400
150	450	600
350	650	1000

You have f₀ (Observed cell counts)

You need to find f (Expected cell counts)

$$\sum_{140}^{(200-140)} + \frac{(200-260)^2}{260} + \frac{(150-210)^2}{210} +$$

$$\frac{(450-390)^2}{390}$$
 = 25.71 + 13.85 + 17.14 + 9.23

$$X^2 = 65.9^2$$

Rejection Region

$$2-1=1$$
 $2-1=1$
 $2-1=1$

X larger than book value (3.8)

Yes! There is an association!

Inferential Statistics

Table 1: Opinions on homosexual behavior between consenting adults based upon political party orientation.

	Political Party Orientation
Opinions on Homosexu	al Behavior

	Liberal (0123)	Conservative (4567)	Total
Favor	500 (67%)	250 (33%)	750
Oppose	250 (33%)	500 (67%)	750
Total	750 (100%)	750 (100%)	1,500

Reject Ho

Accept H₁

How Strong is the relationship?

$$X^2/N = \frac{55.9}{1000} = 25.67 \text{ or } 26\%$$

Appendix E-2: Inferential Table – The Opinions on the Death Penalty based upon Age, Gender, Race, Education, and Political Party Orientation.

Table E-2

Opinion on the Death Penalty

- -Age
- -Gender
- -Race
- -Education
- -Political Party Orientation

Opinion on the Death Penalty

Oppose	Young		Old
	Male		Female
Favor	Non-Mi	nority	Minority
	Low		High
	Liberal	Moderate	Conservative
			Total: 60,000

Total

X2 – (age, gender, race, and education) = ?; 1df @ .05, phi =?

V – (political party orientation) = ?; 2df @ .05, phi = ?

Ethics/Politics

Constraints on Research Projects

Ethics

- Voluntary Participation
- No Harm to Participants
- Anonymity and Confidentiality
- Researcher's Identity
- Analysis and Reporting

Zimbardo Politics

Milgram Human Subjects Form

Appendix C: Human Subjects Informed Consent

See Proposal Attached

Your participation is completely voluntary and may be discontinued at any time without prejudice to you.

If you have any questions or concerns about your safety or crime in your neighborhood, please feel free to contact the Charlotte-Mecklenburg Police Department, David 3 District Community Policing Unit at 704-336-2829.

UNC Charlotte is eager to ensure that all research participants are treated in a fair and respectful manner. If you have any concerns or questions about your treatment as a subject in this project, contact Dr. David Test, Department of Teaching Specialties, Charlotte, NC 28223 (704) 547-2531.

X	
(Signature)	
X	
(Date)	