History, Psychological methods

**Psychology: A definition**
Psyche: _____________
Ology: _____________
Definition: the study of _____________ and _____________

**Question**
How does the mind relate to the body/brain?

**Long long ago…**

**Along came _____________**

**What _____________ did…**
He loved data and _____________
He observed the world and people around him
Beginning of Psychology as a _____________

**New definition of Psychology**
It is the _____________ of behavior and mental processes

**Modern takes on these old theories**
Some modern scientific minds have agreed with both sides
_________________________ agreed with Socrates and Plato that the mind and body are separate and knowledge is innate

**The other side**
_________________________ agreed with Aristotle that observation is key and we only acquire knowledge through observation
This is the beginning of _______________________
We are born a “blank slate”

**Wilhelm Wundt**
Credited with the first psychological experiment and starting the first psychological laboratory
Started “__________________” – we’ll get back to this shortly

**Question**
Do cell phones impair driving?
Do we have problems dividing our attention?
How could you study this?

**Here’s how structuralism would study the same problem**
Method of ____________________
1913: Dallenbach
Two tasks
Counting metronome beats while adding numbers out loud
Asked the subjects to report their experiences to study __________________________

**Introspection: An example**
One subject:
“The sounds of the __________________________, as a series of discontinuous click, were clear in consciousness only four or five times during the experiment, and they were especially bothersome at first.”
What conclusions can you draw from this?
How scientific is this?

**Psychology’s problems**
__________________________: first woman to finish a PhD in Psychology (she was denied the degree for being a woman)
Eventually she was given the degree __________________________

**Psychology’s problems**
__________________________: wanted to demonstrate that learning occurred after birth
Little Albert: __________________________conditioned to be terrified of white rats (he was adopted a few months later, still fairly terrified of white rats)

**Are behaviors complex or simple?**
What drives a little boy to desire a red fire truck?

**3 levels of analysis**

Psychological


**Psychology is a science**
How do we learn things?
__________________________and Use of __________________

__________________________
Open to bias
__________________________ could be wrong
Drug recalls
Are eggs good for us or bad for us?

**Use of ______________**
If you folded a sheet of paper on itself 100 times, how thick would your folded paper be?
___________________________________________________ ___________________
___________________________________________________ ___________________
If you had enough rope to circle the Earth at the equator, how much more rope would be needed to circle the Earth at 1 foot off the ground at the equator?
___________________________________________________ ___________________
___________________________________________________ ___________________
Videos: Dowsing; Aura Healing

**Problems with Reason**

*Hindsight Bias*

The “____________________________phenomenon”

*Overconfidence*

We think we are better than we actually are

If I asked you to unscramble these, how long would it have taken you?

LNPTA - PLANT

WREAT- WATER

Let’s try:

__________________________

__________________________

**Obviously we need to have some scientific way to deal with things**

The __________________________ Method

Theories: Establishes a connection- is ___________________________

Hypothesis: predictions about what will happen

Research and ____________________________: test it out

**Types of Research**

The __________________________

Study one person to try and apply their case to the world

Studying one person with Schizophrenia

They got better by drinking Ice Tea

Thus, every Schizophrenic should drink Ice Tea

Not always too useful, but some ____________________________can only be studied via case studies

**Observational Research**

Observing interactions between ____________________________, mothers and daughters

Observing interactions between ____________________________

Nurses are less likely to speak up and disagree with doctors

Attempts to identify obstacles to having a productive workplace

__________________________with her chimpanzees

**Would you like to take a survey?**

Looks for relationships between survey items
Correlation
Think *relationship*
Examines the relationship between ___________________________
As one thing increases, what does the other do?
As height increases, what does weight do?

The correlation “r”
r = correlation coefficient
It is at most ____________ and at least ____________
An r value of 0 means no correlation
An r value of -1 means a perfect ____________ correlation
An r value of +1 means a perfect ____________ correlation

The correlational coefficient
If you get a value between 0 and 1, your correlation is positive
If you get a value between 0 and -1, your correlation is negative
The closer to 1, the stronger the ____________ correlation
The closer to -1, the stronger the ____________ correlation

What does a correlation mean?
If low self-esteem correlates with depression, what can we learn from this?
Does low self-esteem cause ______________?
Does depression cause ________________?
Is there something else causing both low self-esteem and depression (like a bad breakup?)

Correlation does not equal Causation
We can ________________ find the cause of something using correlations
It can only tell us about the relationship between two things

Correlation does not equal Causation
In the Philippines, contraception use positively correlates with number of appliances owned
Solution to ___________________________
Something else must be causing this

Illusory Correlations
When we believe a correlation exists because it seems to exist
“_________________________ because if you don’t you’ll
_________________________”

Perceiving order in random events
New York 3-number lottery on September 11th, 2002 was 9-1-1
In Utah, 3 grandchildren from 3 daughters were delivered on the same day
New Jersey lady wins lottery TWICE! That’s one lucky girl!

**Experiments**
Attempt to find a cause and effect relationship
Independent Variable: what is _______________________
____________________________Variable: what is measured

**The need for control**
The Placebo Effect
Knowing that you are being helped will make you better
____________________________: a “fake” drug
Maybe a sugar pill that looks just like the drug being studied
____________________________Procedure
Neither the patient or the doctor knows whether they received the placebo or the drug
Placebo Video