

Experimental Design Basics

Scientists ask a question, form a hypothesis, then design an experiment to test their hypothesis. Their experiment should be controlled, where only one variable is tested. This tested, or manipulated, variable is called the **independent variable**. The subjects that are exposed to the independent variable are known as the **experimental group**. Any subjects not exposed to the independent variable are known as the **control group**. The scientist then observes and measures what changes in response to the change they made in the independent variable. This changed, or responding, variable is called the **dependent variable**. All other variables should be kept the same so they do not interfere; these are referred to as **constants**.

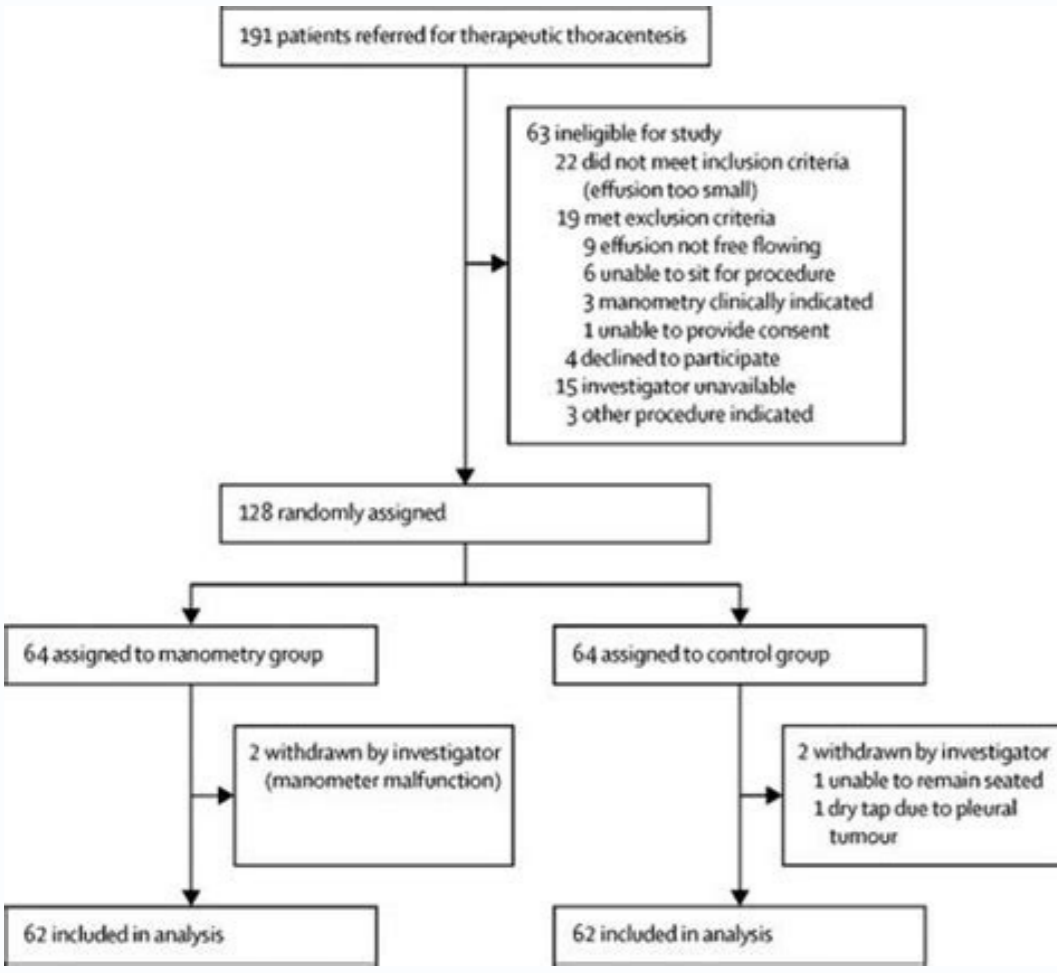
Directions: Read each scenario and determine the independent variable, dependent variable(s) and constant(s).

1. A student wanted to test how the shape of a parachute would affect the fall time of a toy soldier. The student constructed a round and a square parachute out of the same material. The student then dropped each soldier from the same height and timed their fall.

- A. Independent variable: _____
- B. Dependent variable(s): _____
- C. Constants: _____

2. Two groups of 10 students were tested to see if calculator use would affect how fast they could complete a set of basic addition problems. Each group was given the same amount and type of problems. One group used calculators and the other group did not use calculators.

- A. Independent variable: _____
- B. Dependent variable(s): _____
- C. Constants: _____



Quiz & Worksheet - Choosing a Research Method & Design in Psychology

1. John is interested in re-examining Dr. Smith's work involving primates' reactions to brightly colored toads. Why would John use an archival research method?

- Because it is based on the findings of Dr. Smith.
- Because he must interview Dr. Smith.
- Because the data was already collected by Mr. Smith.
- Because it is a quasi-experimental procedure.

2. Why is it important that the research procedures be conducted in sequential order?

- So that the study can be replicated.
- To inform research participants.
- So the research assistants learn the procedures.
- To prepare materials ahead of time.

3. How do surveys differ from a true experiment?

- Surveys take longer to collect data than in a true experiment.
- Surveys use weaker statistics than those in a true experiment.
- Surveys rely on interviews, while true experiments never use this method.
- Survey findings do not require statistical analysis, while true experiments do.

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DESCRIBE DISEASE PROCESS AFFECTING PATIENT (INCLUDE PATHOPHYSIOLOGY OF DISEASE PROCESS)		
<p>Methicillin-resistant Staphylococcus aureus (MRSA) is an infection with a mutated strain of staphylococcus bacteria that has become resistant to methicillin and other antibiotics. Easily spread by direct person-to-person contact. Community-associated MRSA infection, most commonly seen in young, healthy people such as athletes without recent health care exposure.</p>		
<p>DIAGNOSTIC TESTS (REASON FOR TEST AND RESULTS)</p> <p>Culture of blood, nasal secretions, skin, or soft tissue are positive for the bacteria.</p> <p>Complete blood count (CBC) with differential may reveal an elevated white blood cell count, indicating infection</p>	<p>PATIENT INFORMATION</p> <p>Jared Griffin is a 63-year-old African American male who had a right total knee arthroplasty. Patient has a history osteoarthritis and mild hypertension.</p>	<p>ANTICIPATED PHYSICAL FINDINGS</p> <p>Signs and symptoms related to the primary site of infection such as joints, skins respiratory.</p> <ul style="list-style-type: none"> ■ Skin: erythema, edema, painful, warm to touch ■ Furuncle: abscess with purulent drainage
ANTICIPATED NURSING INTERVENTIONS		
<p>Educate the patient about their diagnosis. „mkkk</p> <p>Educate patient about activities, safety, fall risk, and positioning.</p> <p>Educate patient about wound care, it is an important part of infection control.</p> <p>Educate the patient about personal protective equipment.</p> <p>Educate about the use of incentive spirometer and encourage patient to cough.</p> <p>Assess the patient's IV, that the site has no redness swelling infiltration, bleeding, or drainage.</p> <p>Assess vital signs.</p> <p>Check the skin and mucus membranes.</p>		

- Psychologists generally prefer the experimental method to other research methods because
 - Experiments are more likely to support their hypotheses
 - Experiments can show cause-effect (causal) relationships
 - It is easier to obtain a random sample for an experiment
 - Double-blind designs are unnecessary in an experiment
 - Experiments are more likely to result in statistically significant findings
- Threats to internal validity should be eliminated
 - Sampling error
 - The need to use statistics
 - Confounding variables
 - Many confounding variables
 - The need for a representative sample
- Bert and One are lab partners assigned to research who is friendlier, girls or boys. After conversing with their first 10 participants, they find that their friendliness ratings often differ. With which of the following should they be most concerned?
 - reliability
 - confounding variables
 - ethics
 - validity
 - assignment
- Which of the following hypotheses would be most difficult to test experimentally?
 - People respond to anger and are more aggressive than those exposed to blue
 - Exercise improves mood
 - Exposure to violent television increases aggression
 - Studying leads to better grades
 - Divorce makes children more independent
- Professor Keller wants to design a project studying emotional response to video rape. He advertises for participants in the school newspaper, informs them about the nature of the nature study, gets their consent, conducts an interview, and debriefs them about the results when the experiment is over. If you were on the IRB, which ethical consideration would you most likely have the most concern about in Professor Keller's study?
 - Consent
 - Deception
 - Confounding variables
 - Anonymity
 - Clear scientific purpose

Ap psychology experimental design practice worksheet answers.

Thank you for your participation! Ap psych experimental design - Consider each case, and identify the independent and dependent variable. The ap psychology research methods is one of the most term heavy topics within ap psychology. Experimental design relates to how individuals are selected for groups and how those groups are. The variable that may change in response to manipulations of the independent variable. Ap psych my experiment on ____ experimental steps: Types of design include repeated measures, independent groups, and matched pairs designs. Even though you have probably learned this a million times, here is a quick overview: Up to 24% cash back experimental group: Once you join your ap class section online, you'll be able to access ap daily videos, any assignments from your teacher, and your assignment results in ap classroom. Experimental design refers to how participants are allocated to the different groups in an experiment. Suppose that each of the following research scenarios led to the design of an experiment. Probably the commonest way to design an experiment in psychology is to divide the participants into two groups, the. The group with which the experimental group can be compared. Of experimental control and manipulation of variables. An experimental procedure in which both the research participants and the research staff are ignorant about whether the research participants have received the treatment or a placebo. Ap psychology experimental design and ethical considerations workers proposal one: Learn vocabulary, terms, and more with flashcards, games, and other study tools. Sign in to access them. Show Image Sign in to access them. This is the core document for the course. The variable that may change in response to manipulations of the independent variable. Show Image It clearly lays out the course content and describes the exam and ap program in general. The group with which the experimental group can be compared. A way of defining a variable in terms of how it can be manipulated, measured, or changed. Show Image Control any sources of variability you know of and can control we'll locate the farm plots near each other so that the plants get similar amounts of sun and rain and experience similar temperatures. This is the core document for the course. Experimental design project w/ memory: Show Image Suppose that each of the following research scenarios led to the design of an experiment. What is the independent variable? Up to 24% cash back experimental group: Show Image Control any sources of variability you know of and can control we'll locate the farm plots near each other so that the plants get similar amounts of sun and rain and experience similar temperatures. The student earned point 6 by describing lack of external validity when he or she states that the. Our memory is actually separated Show Image The way an experimenter defines the vague parts of an experiment's hypothesis Of experimental control and manipulation of variables. Sign in to access them. Show Image Ap psychology experimental design and ethical considerations workers proposal one: What is the independent variable? The way an experimenter defines the vague parts of an experiment's hypothesis Show Image A way of defining a variable in terms of how it can be manipulated, measured, or changed. Terms in this set (17) operational definition. Sign in to access them. Show Image Types of design include repeated measures, independent groups, and matched pairs designs. The experimental factor that is manipulated; The way an experimenter defines the vague parts of an experiment's hypothesis Show Image The ap psychology research methods is one of the most term heavy topics within ap psychology. Learn vocabulary, terms, and more with flashcards, games, and other study tools. Experimental design and ethical considerations background. Hoch experimental design practice worksheet part 1 : 1.06 frq design an experiment to determine whether a new drug that is supposed to reduce hyperactivity in children actually does. The student earned point 2 by describing lack of external validity when he or she states that the. Experimental design project w/ memory: Up to 24% cash back control group: Those participants treated just like the experimental group except they are not exposed to the independent variable. View ap psychology experimental design project from science ap psychol at north carolina school of science and mathematics. Then, offer a suggestion for how to operationally define (measure) each variable. This is the core document for the course. The apa divisions of psychology. Those participants exposed to the independent variable. The way an experimenter defines the vague parts of an experiment's hypothesis The group with which the experimental group can be compared. Once you join your ap class section online, you'll be able to access ap daily videos, any assignments from your teacher, and your assignment results in ap classroom. Consider each case, and identify the independent and dependent variable. The variable whose effect is being studied. First, the researcher would make a theory to try and explain the behavior that we are observing. Ethical considerations in using human subjects. Experimental design relates to how individuals are selected for groups and how those groups are. Your essay should include an identification and description of all the components of your experimental design, including the method of sampling, independent and dependent variables, controls, and the method that you would employ to. Ap psych coffee experiment example define experimental steps: Experimental design refers to how participants are allocated to the different groups in an experiment. Of experimental control and manipulation of variables. Randomly assign experimental units to treatments to equalize the effects of unknown or Ap psychology experimental design and ethical considerations workers proposal one: Terms in this set (17) operational definition. What is the independent variable?

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