

Types of Research

Quantitative Research:

- 1. Numerical, statistical instead of giving reasonings, information that is objective. Answers factual questions.
- 2. Best for representativeness and generalizability. Broader study. Greater number of subjects.
- 3. Harder to analyze and give reasonings. Can't explore why.

Qualitative Research:

- 1. Focused around opinion, feelings and WHY something is happening. Complex data and harder to analyze. Subjective Data.
- 2. Detailed information that explores reasonings. Based on human experience which gives better validity.
- Longer process to analyze the data as it all varies due to subjective nature. If not careful, researcher can have a negative impact on the results behavior.

Mixed Methods Research:

- 1. Combines elements of quantitative research and qualitative research.
- 2. Help to gain a more complete picture.
- 3. Used often in Social Work Research.

Types of Research		
Descriptive Research-	research that describes or define a particular phenomenon.	
Explantory Research-	explains why particular phenomena work in the way that they do, answers "why" questions.	
Exploratory Research-	conducted during the early stages of a project, usually when a researcher wants to test the feasibility of conducting a more extensive study.	

Terms		
Attributes-	characteristics that make up a variable.	
Exhaustiveness-	all possible attributes are listed.	
Index-	measure that contains several indicators and is used to summarize a more general concept.	
Indicators-	represent the concepts that we are interested in studying.	
Interval-	the distance between attributes is known to be equal.	



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Published 25th February, 2024. Last updated 26th February, 2024. Page 1 of 5.



Terms (cont)		
Operationali- zation-	process by which researchers conducting quantitative research spell out precisely how a concept will be measured.	
Ratio-	attributes can be rank ordered, the distance between attributes is equal, and attributes have a true zero point.	
Scale-	composite measure designed in a way that accounts for the possibility that different items on an index may vary in intensity.	
Typology-	measure that categorizes concepts according to particular themes.	

Measurments		
Nominal Scale-	Places people, events, perceptions, etc. into categories based on a common characteristic.	Lowest form of measurement because it doesn't capture information about the focal object other than whether the object belongs or doesn't belong to a category.
Ordinal Scale-	Contains all of the information captured in the nominal scale but it also ranks data from lowest to highest.	Rank orders the subjects. Richer than nominal scaling, ordinal scaling still suffers from information loss in the data.
Interval Scale-	Indicates the distance one object is from another.	
Ratio Scale-	Contains all of the information of the previous three levels plus it contains an absolute zero point.	

Variables		Variables (d	cont)	Variables (co	ont)
Definition- Independent Variable-	any characteristics of an individual that can change from individual to individual. (Explanatory/Predictor) manipulated by the researcher. Purposely change or	Control Variable-	held constant or controlled by the researcher to ensure that it does not affect the relationship between the independent variable and the dependent variable.	Extraneous Variable-	has no relationship with the independent or dependent variable but can affect the outcome of the study. Extraneous variables can lead to erroneous conclu-
	control in order to see what effect it has.	Continous Variable-	can take on any value within a certain range.		sions and can be controlled through random assignment or statistical techniques.
Dependent Variable-	(Response/Outcome) responds to the change in the independent variable.	Catego- rical Variable-	can take on a limited number of values or categories.	Latent Variable-	cannot be directly observed or measured, but is inferred
Confou- nding Variable-	affects the relationship between the independent variable and the dependent variable.	Discrete Variable-	can only take on specific values. Discrete variables are often used in counting or frequency analyses.		from other variables. Latent variables are often used in psychological or social research to represent constructs such as person-
Mediating Variable-	explains the relationship between the independent	Dummy Variable-	takes on only two values, typically 0 and 1, and is used		ality traits, attitudes, or beliefs.
	variable and the dependent variable. Comes in between the independent and dependent variables and is affected by the independent variable, which then affects the dependent variable.		to represent categorical variables in statistical analyses. Dummy variables are often used when a categorical variable cannot be used directly in an analysis.	Modera- tor-me- diator Variable-	acts both as a moderator and a mediator. It can moderate the relationship between the independent and dependent variables and also mediate the relationship between the
Moderator Variable-	affects the strength or direction of the relationship between the independent variable and the dependent variable.				independent and dependent variables. Moderator-mediator variables are often used in complex statistical analyses.



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Sampling			
Sample-	Specific group of individuals that you will collect data from.		
Sample Frame-	The actual list of individuals that the sample will be drawn from.		
Probab- ility Sampling-	Used in Quantitative research. Random selection, allowing you to make strong statistical inferences about the whole group.	Every member of the population has a chance of being selected.	

Types of Probability Sampling:

Simple	Every
Random	member of
Sampling-	the
	population
	has an equal
	chance of
	being select-
	ed.Should
	include the
	whole
	population.

Sampling (cont)		
Systematic	matic Instead of randomly	
Sampling-	generating numbers, indivi-	
	duals are chosen at regular	
	intervals. Easier to conduct	
	than Simple Sampling.	
Stratified	Dividing the population into	
Sampling-	subpopulations that may	
	differ in important ways.	
	Allows you draw more	
	precise conclusions by	
	ensuring that every subgroup	
	is properly represented in the	
	sample.	

Sampling (cont)				
	Cluster Sampling-	Divide the population into subgroups, but each subgroup should have similar characteristics to the whole sample. Instead of sampling individuals from each subgroup, you randomly select entire subgroups.		
Non-Pr- obability Sampling-	Used in Qualitative and Explor- atory research. Non- random selection based on conven- ience or other criteria, allowing you to easily collect data.	Individuals are selected based on non-random criteria, and not every individual has a chance of being included.		

Types of Non-Probability Sampling:



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Sampling (cont)

Convenience SamplingIncludes the individuals who happen to be most accessible to the researcher. Easy, inexpensive. At risk for

sampling bias and selection

bias.

Voluntary People volunteer themselves.

Response At risk for self-selection bias.

Sampling-

Purposive Also known as Judgement Sampling- Sampling. Researcher uses

their expertise to select a sample that is most useful to the purposes of the research. At risk for observer bias.

Snowball Sampling-

Recruit participants via other participants. At risk for

sampling bias.

Sampling (cont)

Quota Non-random selection of a Sampling- predetermined number or

proportion of units.



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Published 25th February, 2024. Last updated 26th February, 2024. Page 5 of 5.