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experimental design					
Independent groups design	Repeated measures design	Matched pairs design			
Advantages					
Eliminate order effects such as practice and fatigue affects because participants are only taking part in one condition less less likely to guess the aim of the study and show demand characteristics	Eliminate participant variables	Eliminate order effects such as practice and fatigue affects because participants are only taking part in one condition less less likely to guess the aim of the study and show demand characteristics			
Disadvantages					
-Researchers cannot control the effects of participant variables	Participants are more likely to experience order effects such as practice and fatigue affects this means they are more likely to get the aim of the study and show demand characteristics this causes low internal validity	Researchers cannot control all participant variables			
Improvements					
-Researchers can randomly allocate partic- ipants to conditions equally distribute partic- ipant variables	Researchers may use two different tests to reduce practise effects they may also use counterbalancing which can be used to avoid demand characteristics	Researchers can conduct a pilot study to consider key variables that are important when matching			

Order effects

there are two techniques researchers can use to reduce the problem of order effect when using a repeated measures design

Counterbalancing

Counterbalancing is when researchers alternate the order in which participants perform in different cionditions of an experiment. for example group one does A and then B group two does B and then A this is to evenly distribute the impact of order affects across conditions however it does not eliminate them

randomisation

Randomisation is when material for each condition in an experiment is presented in a random order for example the same words are presented but in a different order for each participate

Random allocation

Random allocation uses a non-biased method to allocate participants to experimental conditions. for example the researcher will number the participants and put the numbers in a hat. the first number that is drawn is allocated to condition A the second number that is drawn is allocated to condition B the third person that is drawn is allocated to condition A again and so on. the researcher will continue to allocate participants until equal number of participants are in each condition. for example if there are 100 participants 50 participants would be in condition A and 50 participants will be in condition B

Key terms

Target population

The target population is the wider group of people from whom the sample is drawn

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Key terms (cont)					
Sample This sample is a smaller group of people selected from a larger population for the purposes of the study					
Sampling techniques					
The five types of sampling techniques					
opportunity sampling					
An opportunity sample is a sample of those from the target population who are most easily available at the time of the study					
strengths			weaknesses		
It is the easiest sampling method because the already there so it takes less time to recruit t	e participants are hem	The sample is biased because most studies okay out in unive students therefore you cannot population	e it is drawn from a small group of the population ersities the participants will mainly consist of generalise the findings to the rest of the		
random sampling					
A random sample is a sample of participants are selected using a random technique such as a name out of a hat soevery member of the target population has an equal chance of being chosen					
strengths			weaknesses		
The sample is biased because each member population has an equal chance of being cho findings can be generalised to the rest of the	r of the target osen therefore the population	It is time-consuming as you ne those randomly selected	eed to list all the participants and then contact		
stratified sampling					
Stratified sample is made by classifying the target population into subgroups based on the frequency in the population and then participants are selected randomly to proportionally represent the subgroup					
strengths		weaknesses			
The sample is likely to be more representative at the sample proportionately represent the subgroups in the target population the findings therefore can be generalised the rest of the population		The sampling method is time-consuming as you must identify the subgroups select participants randomly and then contact them			
	Sy	stematic sampling			
A sample obtained by selecting every nth number from the target population this could be by using the random number button on a scientific calculator or a random number generator					
strengths			weaknesses		
The sample is unbiased because the research it uses an The objective system therefore the findings can be generalised to the rest of the population		The sample may be biased unless you select a number using a random number generator and then select every n th number			
volunteer sampling					
a sample that is made up of those from the target population that offered to take part					
strengths			weaknesses		
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Sampling techniques (cont)

It is an easy sampling method because the participants offered to take part so it takes less time to recruit them The sample may be biased because participants are likely to be highly motivated have extra time on their hands or need money this leads to volunteer bias therefore the findings cannot be generalised to the rest of the population



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