Cheatography

PSY2206 Methods and Statistics Cheat Sheet by Kxrx_ via cheatography.com/157583/cs/33366/

Data terms and Inputs		Glossary terms (cont)	
Glossary ter Descri- ptive Statistics (DS) Central	ms describe data set concisely and in a repeatable format several different types- all	Inferential Statistics (IS)	allows you to make inferences from your sample about the larger population. Will tell you the probability of your results occurring in the population. However it does not tell you anything regarding the size of the difference.
tendency (DS)	attempt to give a single number that represents your variables. most common is average but also includes mean, median and mode aims to give a single number	Effect sizes	indicate the strength of the relationship between your variables #. should be reported in conjunction with the probability level associated with any infere-
(DS) Standard deviation	that represents the spread or variability of the variables. The larger the dispersion value = the larger its variability. standard deviation is the most common measure an estimate of the average variability of spread of the variables	Parametric variables (IS)	ntial statistics. tests that assume that the data approximates a certain distribution e.g. normal distri- bution. Allows us to make inferences that are capable of producing accurate results. Must double check assump- tions.
(DS) Standa- rdised scores (DS)	is measured in terms of standard deviations and allows instant comparisons to the means score on a variable- can then tell if score is greater or lesser than the	Non-pa- rametric variables (IS)	tests that make fewer assumptions about the data and thus can be used to analyse a more diverse range of data. Less powerful than parametric.
	mean.		

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Glossary terms (cont)

Indepe-	looking for differences on a
ndent	variable between separate
Groups	groups of people. two groups
Design	often use t-test or non-param-
	etric Mann-Whitney test. When
	investigating differences
	between more than two groups
	the parametric between-groups
	ANOVA- often follow up with a
	post-hoc test
Repeated	looking for differences on a
Measure	variable within the same group
Design	of people- look to see have
	scores have changed. If you
	have tested your participants
	twice you can use a paired t-
	test or non-parametric
	Wilcoxon test to identify if the
	difference is significant. If you
	have tested them more than
	twice use a parametric within
	groups ANOVA.
Identifying	types of data
Variable	what we measure- must identify:

Variable	what we measure- must identify:
	Type (discrete or continuous),
	Level of measurement (normal,
	oridnal, interval or ratio), Role in
	the research study (indep-
	endent, dependent or covariate).

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 information we collect about the variable collection of information about the several variables variables that contain separate and distinct catego- ries. e.g. Gender- split into female, male etc. not spilt into distinct categories e.g. age. fractions are meaningful
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magnitude (can order the values in a variable from highest to lowest), equal intervals (unit difference on a measurement scale is the same regardless of where that unit difference occurs on the scale e.g. temperature), true absolute zero (zero point on the scale is the point where nothing of the variable exists and there are no scores).
Nominal, Ordinal, Interval and Ratio
Variable has none of the measurement properties. use the numbers in the variable only as labels

Identifying types of data (cont)

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Ordinal	have the measurement property of magnitude- ordered/ranked
Interval	measurment properties of magnitude and equal intervals.
Ratio	measurement properties of magnitude, equal intervals and absolute zero.
Covariates	broad label for a variable in a research design that's neither an IV or DV. Can be used to take account of other factors that might influence the relati- onship between IV and DV. Can also exist in research designs where no IV or DV exist.
Inputting Da	ata- Variable View Window
1) Identify your variables and label	choose concise and distinct variable names e.g. Time, Age ect.
2) Decide on variable type	Variable view window (bottom left) > Numeric (can change to things such as dates ect.) in the values section you can click the three dots and assign numbers to scores e.g. 0=easy
3) Assign level of measur- ement	variable view window > measure > scale/nominal/o- rdinal

Inputting Data- Data View window Sorting Can be a useful tool in ordering

Sorting cases	Can be a useful tool in ordering variables you have inputted (e.g. highest to lowest). Data > Sort cases > select variable you wish to sort > select either ascending or descending > Ok >
Recoding variables	converting the data in a variable into new data (as a new variable with different meaning or measured on a different scale). e.g. wanting to examined differences in exercise taken less than 12 months after transplant and more than 12 months after- can recode the data so it establ- ishes these different groups. Transform > Recode into Different Variables > select the variable (e.g. time) and move to right box > Output variable box allows you to name new variable > press change > Old and new values > input the values from the existing variable that you want to recode in the left hand box > new value that you want to apply in the value box under new value 2 add > click continue after adding all the values > can then go to variable view window and add labels

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Measure of Central Tendency		
Central Tendency (CT)	a representative value from the data- a summary of all the values on a variable in your data set. Always refers to a single variable- thus if you have several variables in the data set they each need their own CT	
Dispersion	how much the data deviates from the central tendency	
Mode	simplest measure of central tendency to calculate- most frequently occurring. Order data if doing it manually. SPSS: Analyse > Descriptive Statistics > Frequencies > move variable containing your scores into the variables window >	

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