Prep 1: Correlations

Read about correlations in the pack and work through the tasks below

1) Fill in the gaps: This is a measure of	between
It measures ho	ow strongly the variables are related with
	If a strong correlation is
found, a value from one variable ca corresponding value of the other.	an be used to the
2) Draw a positive and negative correlat	ion on the axes below
Positive	Negative
3a) what are these graphs called?	
3b) Give one example of a positive correlation	on and one example of a negative correlation
+	
-	
4) Correlations also have hypothesis and as are p	predicting a relationship and not a difference are
worded differently. A directional hypothesis state	

Identify below whether these are directional or non-directional

directional simply states there will be a correlation.

There will be a significant correlation between deaths by drowning and ice creams eaten between the months of June and august

There will be a significant negative correlation between amount of Christmas presents bought and cash in the bank.

There will be a significant positive correlation between mince pies eaten and size of waste line.

5) Fill in the gaps:

We use a formula to find out what a correlation coefficient is. This indiciates the strength and direction of the correlation. The correlation coefficient cannot be any value other than those between -1 and 1. A score of _____ indicates a perfect negative correlation, and a score of _____ indicates a perfect positive correlation. A score of _____ indicates no correlation

6) What correlation coefficient would indicate a...

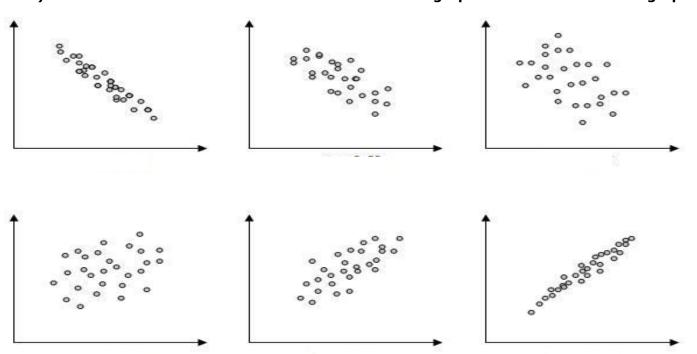
Weak positive correlation?

Strong negative correlation?

Negative moderate correlation?

weak negative correlation?

7) Estimate the correlation coefficients for the scattergraphs below. Write next to graph.



8) Which of these are positive and which are negative criticisms of correlations and add some detail in to create full evaluation

Can be used when research would be impossible or unethical to manipulate an I	IV for
example	

Correlations are useful tools.....