Correlation questions and answers pdf

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## Symbiotic Relationships Pre/Post-Test ANSWER KEY

Name Date Period Grade /100

The test will cover the following Next Generation Sunshine State Standards:

SC.7.L.17.2 Compare and contrast the relationships among organisms such as mutualism, predation, parasitism, competition, and commensalism

SC.7.L.17.3 Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

Directions: Answer each of the following questions below - each multiple choice question is worth 6 points.

1. \_\_\_\_A\_\_\_\_ Which of the following symbiotic relationships is considered parasitic?

- A. Tapeworm in an intestinal tract
- B. Bees transporting pollen from flowers
- C. Pilot fish swimming under sharks
- D. Birds eating the insects from the back of a hippopotamus
- 2. \_\_A\_\_\_ Ants and acacia trees have a mutualistic relationship because
  - A. They both benefit from living with each other.
  - B. They are part of the same ecosystem.
  - C. They are both adapted to a humid climate.
  - D. The ants eat part of the acacia tree.

 \_\_A\_\_\_Male bull sea lions fighting for beach master dominance and the first pick of female cows during mating season is an example of which symbiotic relationship?
A. Competition
B. Mutualism
C. Predation
D. Decomposition

4. \_B\_\_\_ What does symbiosis mean?

- A. living separately, no relationship between 2 species
- B. living together, close relationship between 2 species
- C. living in a community with no interaction between each other
- D. living together in fear of each other



# Latest Version: 6.0

Question: 1

Which is NOT a valid type of life event?

A. Explicit

B. Temporal

C. Scheduled D. Unrestricted

E. Restricted

E. NEWDERE

Answer: E

https://docs.oracle.com/cloud/farel12/globalcs\_gs/FACMB/FACMB1479189.htm#FACMB1229710

Question: 2

XX Life insurance plan has two options: Option 1 enrolls a dependent of age 21 or above and Option 2 enrolls a dependent aged 18 or less. How do you define a benefit configuration for these two options?

A. Create two derived factors, one with age as 21 or above and a second with age 18 or less. Create an eligibility profile and configure these two derived factors under the eligibility profile. Then attach the eligibility profile to XX Life Insurance Plan B. Create one derived factor. Create an eligibility profile and configure the derived factor under the eligibility profile. Then attach the eligibility profile to XX Life Insurance plan at Option 1, and then attach the same eligibility profile at Option 2.

C. Create one derived factor. Create an eligibility profile and configure the derived factor under the eligibility profile. Then attach the eligibility profile to XX Life Insurance Plan.

D. Create two eligibility profiles. One with age as 21 or above and a second with age 18 or less. Then attach these eligibility profiles to XX Life Insurance Plan.

Answer: D

## Question: 3

An organization has a scheduled open period for Life Insurance plan from January 1st to the 31st. The important dates defined while configuring the scheduled open life event are: 1) Enrollment Period Start Date - January 1, 201/ 2) Enrollment Period End Date - January 31, 2017 3) Assign Defaults Date - January 31, 2017 4) Assigned Life Event Date - January 15, 2017

## 50 COMMON INTERVIEW QUESTIONS AND ANSWERS

#### 1. Tell me about yourself:

The most often asked question in interviews. You need to have a short statement prepared in your mind. Be careful that it does not sound rehearsed. Limit it to work-related items unless instructed otherwise. Talk about things you have done and jobs you have held that relate to the position you are interviewing for. Start with the item farthest back and work up to the present.

### 2. Why did you leave your last job?

Stay positive regardless of the circumstances. Never refer to a major problem with management and never speak ill of supervisors, co-workers or the organization. If you do, you will be the one looking bad. Keep smiling and talk about leaving for a positive reason such as an opportunity, a chance to do something special or other forward-looking reasons.

#### 3. What experience do you have in this field?

Speak about specifics that relate to the position you are applying for. If you do not have specific experience, get as close as you can

#### 4. Do you consider yourself successful?

You should always answer yes and briefly explain why. A good explanation is that you have set goals, and you have met some and are on track to achieve the others.

#### 5. What do co-workers say about you?

Be prepared with a quote or two from co-workers. Either a specific statement or a paraphrase will work. Jill Clark, a co-worker at Smith Company, always said I was the hardest workers she had ever known. It is as powerful as Jill having said it at the interview herself.

#### 6. What do you know about this organization?

This question is one reason to do some research on the organization before the interview. Find out where they have been and where they are going. What are the current issues and who are the major players?

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Page 1 of 7



Rank correlation questions and answers. Coefficient of correlation questions and answers pdf. Spearman's rank correlation questions and answers. Correlation questions and answers and answers. Correlation questions and answers and answers.

In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Meaning A correlation coefficient of 1 means that for every positive increase in one variable, there is a positive increase of a fixed proportion in the other. For example, shoe sizes go up in (almost) perfect correlation with foot length. A correlation coefficient of -1 means that for every positive increase in one variable, there is a negative decrease of a fixed proportion in the other. For example, the amount of gas in a tank decrease of a fixed proportion in the other. aren't related. The absolute value of the correlation coefficient gives us the relationship strength. The larger the number, the stronger relationship than .65. Like the explanation? Check out the Practically Cheating Statistics Handbook, which has a stronger relationship than .65. Like the explanation? Check out the Practically Cheating Statistics Handbook, which has a stronger the number, the strongert the number, the stronger the number, problems! Types of correlation coefficient formulas. There are several types of correlation coefficient formulas are commonly used: the sample correlation coefficient and the population correlation coefficient. Sample correlation coefficient Sx and sy are the sample covariance. Population correlation coefficient and the population correlation coefficient Sx and sy are the sample covariance. my Youtube channel for more tips and help with statistics! Back to Top What is Pearson Correlation? Correlation between sets of data is a measure of correlation in stats is the Pearson Correlation. The full name is the Pearson Product Moment Correlation (PPMC). It shows the linear relationship between two sets of data. In simple terms, it answers the question, Can I draw a line graph to represent the data? Two letters are used to represent the data? Two letters are used to represent the data? dependent variables and independent variables. For example, if you are trying to find the correlation between a high calorie diet. That obviously makes no sense. Therefore, as a researcher you have to be aware of the data you are plugging in. In addition, the PPMC will not give you any information about the slope of the line; it only tells you whether there is a relationship. Real Life Example Pearson correlation is used in thousands of real life situations. For example, scientists in China wanted to know if there was a relationship between how weedy rice populations are different genetically. The goal was to find out the evolutionary potential of the rice. Pearson's correlation between 0.783 and 0.895 for weedy rice populations. This figure is quite high, which suggested a fairly strong relationship. If you're interested in seeing more examples of PPMC, you can find several studies as varied as breast cyst imaging to the role that carbohydrates play in weight loss. Back to Top How to Find Pearson's Correlation Coefficients By Hand Watch the video on YouTube. Can't see the video? Click here. Example question: Find the value of the correlation coefficient from the following table: Subject Age x Glucose Level y 1 43 99 2 21 65 3 25 79 4  $42\ 75\ 5\ 57\ 87\ 6\ 59\ 81\$  Step 1: Make a chart. Use the given data, and add three more columns: xy, x2, and y2. Subject Age x Glucose Level y xy x2 y2 1 43 99 2 21 65 3 25 79 4 42 75 5 57 87 6 59 81 Step 2: Multiply x and y together to fill the xy column. For example, row 1 would be  $43 \times 99 = 4,257$ . Subject Age x Glucose Level y xy x2 y2 1 43 99 42 75 5 57 87 6 59 81 Step 2: Multiply x and y together to fill the xy column. For example, row 1 would be  $43 \times 99 = 4,257$ . Subject Age x Glucose Level y xy x2 y2 1 43 99 42 75 5 57 87 6 59 81 Step 2: Multiply x and y together to fill the xy column. For example, row 1 would be  $43 \times 99 = 4,257$ . Subject Age x Glucose Level y xy x2 y2 1 43 99 4257 2 21 65 1365 3 25 79 1975 4 42 75 3150 5 57 87 4959 6 59 81 4779 Step 3: Take the square of the numbers in the x column, and put the result in the x2 column. Subject Age x Glucose Level y xy x2 y2 1 43 99 4257 1849 2 21 65 1365 441 3 25 79 1975 625 4 42 75 3150 1764 5 57 87 4959 3249 6 59 81 4779 3481 Step 4: Take the square of the numbers in the y column, and put the result in the y2 column. Subject Age x Glucose Level y xy x2 y2 1 43 99 4257 1849 9801 2 21 65 1365 441 4225 3 25 79 1975 625 5 57 87 4959 3249 7569 6 59 81 4779 3481 6561 Step 5: Add up all of the numbers in the columns and put the result at the bottom of the column. The Greek letter sigma ( $\Sigma$ ) is a short way of saying "sum of" or summation. Subject Age x Glucose Level y xy x2 y2 1 43 99 4257 1849 9801 2 21 65 1365 441 4225 3 25 79 1975 625 6241 4 42 75 3150 1764 5625 5 57 87 4959 3249 7569 6 59 81 4779 3481 6561  $\Sigma$  247 486 20485 11409 40022 Step 6: Use the following correlation coefficient formula. The answer is: 2868 / 5413.27 = 0.529809 Click here if you want easy, step-by-step instructions for solving this formula. From our table:  $\Sigma x = 247 \Sigma y = 486 \Sigma x y = 20,485 \Sigma x 2 = 11,409 \Sigma y 2 = 40,022$  n is the sample size, in our case = 6 The correlation coefficient =  $6(20,485) - (247 \times 486) / [\sqrt{[[6(11,409) - (2472)]} \times [6(40,022) - 4862]]] = 0.5298$  The range of the correlation coefficient is from -1 to 1. Our result is 0.5298 or 52.98%, which means the variables have a moderate positive correlation. Back to Top. Like the explanation? Check out the Practically Cheating Statistics Handbook, which has hundreds more step-by-step explanations, just like this one! Correlation Formula: TI 83 If you're taking AP Statistics, you won't actually have to work the correlation formula by hand. You'll use your graphing calculator. Here's how to find r on a TI83. Step 1: Type your data into a list and make a scatter plot to ensure your variables are roughly correlated. In other words, look for a straight line. Not sure how to do this? See: TI 83 Scatter plot. Step 2: Press the STAT button. Step 3: Scroll right to the CALC menu. Step 4: Scroll down to 4:LinReg(ax+b), then press ENTER. The output will show "r" at the very bottom of the list. Tip: If you don't see r, turn Diagnostic ON, then perform the steps again. How to Compute the Pearson Correlation Coefficient in Excel Watch the video: Find the Correlation Coefficient in ExcelWatch this video on YouTube. Can't see the video? Click here. Step 1: Type your data into column B. Step 2: Select any empty cell. Step 3: Click the function button on the ribbon. Step 4: Type "correlation" into the 'Search for a function' box. Step 5: Click "Go." CORREL will be highlighted. Step 6: Click "OK." Step 7: Type the location of your data into the "Array 1" and "Array 2" boxes. For this example, type "B2:B10" into the Array 1" and "Array 2" boxes. For this particular data set, the correlation coefficient(r) is -0.1316. Caution: The results for this test can be misleading unless you have made a scatter plot first to ensure your data is something other than linear (i.e. the data fits an exponential model). That's it! Subscribe to our Youtube Channel for more Excel tips and stats help. Back to top. Correlation Coefficient SPSS: Overview. Watch the video on YouTube. Can't see the video? Click here. Step 1: Click "Analyze," then click "Bivariate." The Bivariate Correlations window will appear. Step 2: Click one of the variables in the left-hand window. Then click the center arrow to move the variables:" window. Then click the "Pearson" check box if it isn't already checked. Then click either a "one-tailed" or "two-tailed" test radio button. If you aren't sure if your test is one-tailed or two-tailed test or two-tailed test? Step 4: Click "OK" and read the results. Each box in the output gives you a correlation between two variables. For example, the PPMC for Number of older siblings and GPA is -.098, which means practically no correlation. You can find this information in two places in the output. Why? This cross-referencing columns and rows is very useful when you are comparing PPMCs for dozens of variables. Tip #1: It's always a good idea to make an SPSS scatter plot of your data set before you perform this test. That's because SPSS will always give you some kind of answer and will assume that the data is linearly related. If you have data that might be better suited to another correlation (for example, exponentially related data) then SPSS will still run Pearson's for you and you might get misleading results. Tip #2: Click on the "Options" button in the Bivariate Correlations window if you want to include descriptive statistics like the mean and standard deviation. Back to top. Minitab Watch this video on how to calculate the correlation coefficient in MinitabWatch this video on YouTube. Can't see the video? Click here. The Minitab correlation coefficient will return a value for r from -1 to 1. Example question: Find the Minitab correlation coefficient based on age vs. glucose level from the following table from a pre-diabetic study of 6 participants: Subject Age x Glucose Level y 1 43 99 2 21 65 3 25 79 4 42 75 5 57 87 6 59 81 Step 1: Type your data into a Minitab worksheet. I entered this sample data into three columns. Data entered into three columns in a Minitab worksheet. Step 2: Click "Stat", then click "Basic Statistics" and then click "Correlation." "Correlation." is selected from the "Stats > Basic Statistics" menu. Step 3: Click a variable name in the left window and then click the "Stats > Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. Step 3: Click a variable name in the left window and then click "Basic Statistics" menu. 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Step 3: Click a variable name in the left window and then click " "Age," then click "Select," then click "Glucose Level" then click "Select" to transfer both variables to the Variable window. Step 4: (Optional) Check the "P-Value" box if you want to display a P-Value for r. Step 5: Click "OK". The Minitab correlation coefficient will be displayed in the Session Window. If you don't see the results, click "Window" and then click "Tile." The Session window should appear. Results from the Minitab correlation. For this dataset: Value of r: 0.530 P-Value: 0.280 That's it! Tip: Give your columns meaningful names (in the first row of the column, right under C1, C2 etc.). That way, when it comes to choosing variable names in Step 3, you'll easily see what it is you are trying to choose. This becomes especially important when you have dozens of columns of variables in a data sheet! Meaning of the Linear Correlation Coefficient is a linear correlation coefficient is a linear correlation coefficient. Pearson's Correlation coefficient is a linear correlation coefficient that returns a value of between -1 and +1. A -1 means there is a strong negative correlation and +1 means that there is a strong positive correlation. A 0 means that there is no correlation (this is also called zero correlation). This can initially be a little hard to wrap your head around (who likes to deal with negative numbers?). The Political Science Department at Quinnipiac University posted this useful list of the meaning of Pearson's Correlation coefficients. They note that these are "crude estimates" for interpreting strengths of correlationship +.20 to +.29 weak positive relationship +.40 to +.69 Strong positive relationship +.20 to +.29 weak positive relationship +.20 [zero correlation] -.01 to -.19 No or negligible relationship -.20 to -.29 weak negative relationship -.30 to -.39 Moderate negative relationship -.40 to -.69 Strong negative relationship -.40 to -.40 correlation), 0 and +1 (a positive correlation). The images show that a strong negative correlation means that the graph has a downward slope from left to right: as the x-values increase, the y-values get larger. Back to top. Cramer's V Correlation Cramer's V Correlation is similar to the Pearson Correlation is used to calculate correlation in tables with more than 2 x 2 columns and rows. Cramer's V correlation varies between 0 and 1. A value close to 0 means that there is very little association between the variables. A Cramer's V of close to 1 indicates a very strong relationship .05 to .15 Moderate relationship .06 to .10 weak relationship .01 to .25 Strong relationship .15 to .25 Strong relationship .11 to .15 Moderate relationship .01 to .10 weak relationship .01 to .10 weak relationship .11 to .15 Moderate relationship .01 to .10 weak relationship .01 to .15 Moderate relationship .11 to .15 Moderate relationship .01 to .15 Moderate relationship .11 to .15 Moderate relationship .01 to .15 Moderate relationship .01 to .15 Moderate relationship .01 to .15 Moderate relationship .11 to .15 Moderate relationship .01 to .15 Moderate relationship .11 to .15 Moderate r Coefficient Come From? A correlation coefficient gives you an idea of how well data fits a line or curve. Pearson wasn't the original inventor of the term correlation but his use of it became one of the most popular ways to measure correlation. to measure correlation, originally termed "co-relation," which actually makes sense considering you're studying the relationship between a couple of different variables; thus, the stature of the father is correlated to that of the adult son,..and so on; but the index of co-relation ... is different in the different cases." It's worth noting though that Galton mentioned in his paper that he had borrowed the term from biology, where "Co-relation of structure" was being used but until the time of his paper it hadn't been properly defined. In 1892, British statistician Francis Ysidro Edgeworth published a paper called "Correlated Averages," Philosophical Magazine, 5th Series, 34, 190-204 where he used the term "Coefficient of Correlation." It wasn't until 1896 that British mathematical Contributions to the Mathematical Theory of Evolution and Mathematical Contributions to the Theory of Evolution. III. Regression, Heredity and Panmixia. It was the second paper that introduced the Pearson product-moment correlation coefficient Hypothesis Test If you can read a table — you can test for correlation coefficient Note that correlations should only be calculated for an entire range of data. If you restrict the range, r will be weakened. Sample problem: test the significance of the correlation coefficient r = 0.565 using the critical values for PPMC table. Test at  $\alpha = 0.01$  for a sample size of 9. Step 1: Subtract two from the sample size to get df, degrees of freedom. 9 - 7 = 2 Step 2: Look the values up in the PPMC Table. With df = 7 and  $\alpha = 0.01$ , the table value is = 0.798 Step 3: Draw a graph, so you can more easily see the relationship to cosine It's rare to use trigonometry in statistics (you'll never need to find the derivative of tan(x) for example!), but the relationship between correlation = acute angle 45°, Uncorrelated = orthogonal (right angle). More specifically, correlation is the cosine of an angle between two vectors defined as follows (Knill, 2011): If X, Y are two random variables with zero mean, then the covariance Cov[XY] = E[X · Y] is the dot product of X and Y. The standard deviation of X is the length of X. References Acton, F. S. Analysis of Straight-Line Data. New York: Dover, 1966. Edwards, A. L. "The Correlation Coefficient." Ch. 4 in An Introduction to Linear Regression and Correlation. San Francisco, CA: W. H. Freeman, pp. 33-46, 1976. Gonick, L. and Smith, W. "Regression." Ch. 11 in The Cartoon Guide to Statistics. New York: Harper Perennial, pp. 187-210, 1993. Knill, O. (2011). Lecture 12: Correlation. Retrieved April 16, 2021 from: knill/teaching/math19b 2011/handouts/lecture12.pdf Related Articles / More Correlation Coefficients Other similar formulas you might come across that involve correlation (click for article): --- Need help with a homework or test question? With Chegg Study, you can get step-by-step solutions to your questions from an expert in the field. Your first 30 minutes with a Chegg tutor is free! Comments? Need to post a correction? Please Contact Us.

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