Ap statistics experimental design worksheet pdf

Continue

Experimental Probability

Read the cartoon. Answer the question at the end of the cartoon.





difference?"

"The theoretical

probability is 6

because 1 of the 6 sides is numbered 3."

Date

"I wonder . . . what "Do you want to is the probability of find the theoretical this number cube probability or the landing on 3 when experimental it is tossed?" probability?"



"How do I do that?" "Toss the cube a certain number of times."

hat?" "The number of times you toss the cube is the number of **trials.**"



"The number of times "Compare the number the cube lands on 3 of favorable outcomes is the number of with the number of favorable outcomes." trials."

Later that day . . .



"I tossed the cube 120 times, and the cube landed on 3 only 30 times. What is my experimental probability?"

Write the experimental probability in its simplest form.

_____ = ____

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experimental probability =

English

Learners

20.5

66

"To find the

experimental

probability, you must

do an experiment."

favorable outcomes trials

3 rights reserved.

Use with text pages 540-543.

Name: Corinne, Elvis; Carlos Date: _

Population Ecology Graph Worksheet

Directions: Look at the graphs below and answer the following questions.

Graphs 1 - Exponential Growth and Carrying Capacity



1. Which of the two curves exhibits exponential growth? The yellow "J" shaped curve.

2. Which of the two curves exhibits a carrying capacity? The green 's' shaped curve.

3. What is the carrying capacity of this graph? 1000 individuals

 In what generation does this population reach its carrying capacity? <u>It reaches carrying capacity at 24</u> to 26 year/generation.

Graph 2



 For what type of organism is the carrying capacity shown? <u>The carrying capacity shown is for the</u> <u>White-tailed deer.</u>

Hypothesis and Predictions	Experimental Design	Interpreting Data
	Independent Variable - The actual thing that you	1. Describe trends or relationships
Hypothesis (Alternative)	are testing and changing across your experimental	2. Summarize data.
Explanatory - testable, faisifiable statement	groups, also called the "manipulated variable."	3. Make sure that what you state is actually what
that explains observed phenomenon		the data shows.
Generalizing - statement that describes an	Fertilizer (nitrogen) is the independent variable.	4. Statistical analysis may be needed (standard
observed pattern in nature		deviation, T test, chi square) to disprove the null
	Dependent Variable - The response to your	hunothasis



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No. 1 - Jung Manual La.	The September of the work former to new intensing program of \$10 and with these as largest response from the Mithematicarting shifts and resolve.	An other states which the point states compared to be if implementing 1.2 and program improvementing states
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In the sense of decident device, for our work to be a solution of y significant difference on the two groups' that a next to find on take man	The Arcovers' net work to believe and the first programme's a tracky monology and the pro- minants of these decourt approach for a 14 features demonstrate even decourties month of the result due to's contribution proves and	The return is of of the origination tool family brinding to obtain the binning decision trading groups in white this binning and its an information to be determined in an information to be determined on the binning of modernality
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http://study.com/academy/practice/guzz.worksheet-theoretical-probability.html

Study.com

Quiz & Worksheet - Theoretical Probability

1. There are 95 white pieces of paper in a hat along with 5 blue pieces of paper. What is the theoretical probability that a blind-folded person draws a blue piece of paper on the first attempt?

5 out of 100, which is 5/100 or 1/20 (5%)

5 out of 95, which is 5/95 or 1/19 (5.3%)
1 out of 100, which is 1/100 (1%)

5 out of 5, which is 5/5 (100%)

 Jake has been flipping a coin for 3 hours straight and he is about to flip it for the 500th time. What is the theoretical probability that Jake gets heads on this last flip?



1 out of 2 (50%) because no matter how many times a coin is flipped, each flip has just two possible outcomes, heads or tails

2 out of 500 (0.4%) because there are two possible outcomes, heads or tails in 500 flips.

2 out of 1 (200%) because there are two possible outcomes, heads or tails and one flip

3 out of 500 (0.6%) because it has taken 3 hours to flip 500 times.

3. A bag has been filled with 35 red marbles, 25 green marbles, 25 blue marbles and 15 orange marbles. What is the theoretical probability that someone can reach in and randomly pick an orange marble?

15 out of 100, which is 15/100 (15%)

15 out of 25, which is 15/25 (60%)

1 out of 100, which is 1/100 (1%)

15 out of 85, which is 15/85 (18%)

Create your account to access this entire worksheet



Ap statistics 4.2c worksheet experimental design answers. Ap statistics experimental design worksheet answers.

Contents: What is Simple Linear Regression? How to Find a Linear Regression? How to Find a Linear Regression? Watch the video for a brief introduction to linear regression? Watch the video on YouTube. Can't see the video? Click here. If you're just beginning to learn about regression analysis, a simple linear is the first type of regression you'll come across in a stats class. Linear regression is the most widely used statistical technique; it is a way to model a relationship between two sets of variables. The result is a linear regression equation that can be used to make predictions about data. Most software packages and calculators can calculate linear regression. For example: You can also Find a linear regression by hand. Before you try your calculations, you should always make a scatter plot to see if your data follows an exponential model. If you know the relationship is non-linear, but don't know exactly what that relationship is, one solution is to use linear means line. The word Regression came from a 19th-Century Scientist, Sir Francis Galton, who coined the term "regression toward mediocrity" (in modern language, that's regression to the mean. He used the term to describe the phenomenon of how nature tends to dampen excess physical traits from generation (like extreme height). Why use Linear relationships, i.e. lines, are easier to work with and most phenomenon are naturally linearly related. If variables aren't linearly related, then some math can transform that relationship into a linear one, so that it's easier for the researcher (i.e. you) to understand. What is Simple Linear Regression? You're probably familiar with plotting line graphs with one X axis and one Y axis. The X variable is sometimes called the independent variable and the Y variable is called the dependent variable. Simple linear regression plots one independent variable is usually called the predictor variable and the dependent variable is called the criterion variable. However, many people just call them the independent and dependent variables. More advanced regression techniques (like multiple independent variables. Regression) use multiple independent variables. Regression analysis can result in linear regression) use multiple independent variables. produce curved lines.(**) Simple linear regression for the amount of rainfall per year. Regression analysis is almost always performed by a computer program, as the equations are extremely time-consuming to perform by hand. **As this is an introductory article, I kept it simple. But there's actually an important technical difference between linear and nonlinear, that will become more important if you continue studying regression. For details, see the article on nonlinear regression analysis is used to find equations. Once we have the regression equation, we can use the model to make predictions. One type of regression analysis is linear analysis. When a correlation coefficient shows that data is likely to be able to predict future outcomes and a scatter plot of the data appears to form a straight line, you can use simple linear regression to find a predictive function. If you recall from elementary algebra, the equation for a line is y = mx + b. This article shows you how to take data, calculate linear regression, and find the equation y' = a + bx. Note: If you're taking AP statistics, you may see the equation written as b0 + b1x, which is the same thing (you're just using the variables b0 + b1x, which is the same thing (you're just using the variables b0 + b1x, which is the same thing (you're just using the variables b0 + b1x, which is the same thing (you're just using the variables b0 + b1x, which is the same thing (you're just using the variables b0 + b1x, which is the same thing (you're just using the variables b0 + b1x). a linear regression equation (by hand)Watch this video on YouTube. Can't see the video? Click here. The Linear Regression Equation Linear regression is a way to model the relationship between two variables. You might also recognize the equation has the form Y = a + bX, where Y is the dependent variable (that's the variable that goes on the Y axis), X is the independent variable (i.e. it is plotted on the X axis), b is the slope of the line and a is the y-intercept. The first step in finding a linear regression equation is to determine if there is a relationship between the two variables. This is often a judgment call for the researcher. You'll also need a list of your data in x-y format (i.e. two columns of data—independent and dependent variables). Warnings: Just because two variables are related, it does not mean that one causes the other. For example, although there is a relationship between high GRE scores and better performance in grad school, it doesn't mean that high GRE scores cause good grad school performance. If you attempt to try and find a linear regression equation for a set of data (especially through an automated program like Excel or a TI-83), you will find one, but it does not necessarily mean the equation is a good fit for your data. One technique is to make a scatter plot first, to see if the data roughly fits a line before you try to find a linear regression equation. How to Find a Linear Regression Equation: Steps Step 1: Make a chart of your data, filling in the columns in the same way as you would fill in the chart if you were finding the Pearson's Correlation Coefficient. 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 Σ 247 486 20485 11409 40022 From the above table, $\Sigma x = 247$, $\Sigma y = 486$, $\Sigma x = 247$, $\Sigma y = 248$, $\Sigma x = 247$, Σ instructions for solving this formula. Find a: $((486 \times 11,409) - ((247 \times 20,485)) / (6 (11,409) - 2472) (484979 / 7445 = .385225 \text{ Step 3}: \text{Insert the values into the equation. y'} = a + bx y' = 65.14 + .385225 \text{ That's how to find a linear}$ regression equation by hand! Like the explanation? Check out the Practically Cheating Statistics Handbook, which has hundreds more step-by-step solutions, just like this example has a low correlation coefficient, and therefore wouldn't be too good at predicting anything. Back to top Find a Linear Regression Equation in Excel Watch the video or read the steps below: How to find Regression in Excel 2013Watch this video on YouTube. Linear Regression Equation Microsoft Excel: Steps Step 1: Install the Data Analysis Toolpak, if it isn't already installed. For instructions on how to load the Data Analysis Toolpak, click here. Step 2: Type your data into two columns in Excel For example, type your "x" data into column A and your "y" data into column b. Do not leave any blank cells between your entries. Step 3: Click the "Data Analysis" tab on the Excel toolbar. Step 4: Click "regression" in the pop up window and then click "OK." The Data Analysis pop up window has many options, including linear regression. Step 5: Select your input Y range. You can do this two ways: either select the data in the worksheet or type the location of your data is in A2 through A10 then type "A2:A10" into the Input Y Range box. Step 6: Select your input X range by selecting the data in the worksheet or typing the location of your data into the "Input X Range box." Step 7: Select the location where you want your output range to go by selecting a blank area in the worksheet or typing the location of where you want your data to go in the "Output Range" box. Step 8: Click "OK". Excel will calculate the linear regression and populate your worksheet with the results. Tip: The linear regression equation information is given in the last output set (the coefficients column). The first entry in the "Intercept" row is "a" (the vintercept" row is "a" (the vintercept) and the first entry in the "X" column is "b" (the slope). Back to top TI83 Linear Regression Watch the video for the steps: Watch this video on YouTube. Can't see the video? Click here. Two linear regression lines. TI 83 Linear Regression: Overview Linear regression is tedious and prone to errors when done by hand, but you can perform linear regression will only give you a reasonable result if your data looks like a line on a scatter plot, so before you find the equation for a linear regression line you may want to view the data on a scatter plot first. See this article for how to make a scatter plot on the TI 83. TI 83 Linear Regression: Steps Sample problem: Find a linear regression equation (of the form y = ax + b) for x-values of 1, 2, 3, 4, 5 and y-values of 3, 9, 27, 64, and 102. Step 1: Press STAT, then press ENTER to enter the lists screen. If you already have data in L1 or L2, clear the data: move the cursor onto L1, press CLEAR and then ENTER. Repeat for L2. Step 2: Enter your x-variables, one at a time. Follow each number by pressing the ENTER 3 ENTER 4 ENTER 5 ENTE to scroll across to the next column, L2. Step 4: Enter your y-variables, one at a time. Follow each number by pressing the enter key. For our list, you would enter: 3 ENTER 9 ENTER 5: Press the STAT button, then use the scroll key to highlight "CALC." Step 6: Press 4 to choose "LinReg(ax+b)". Press ENTER and then ENTER again. The TI 83 will return the variables needed for the equation. Just insert the given variables (a, b) into the equation for linear Regression! Back to top How to Find a Linear Regression Slope: Overview Remember from algebra, that the slope is the "m" in the formula y = mx + b. In the linear regression formula, the slope is the a in the equation y' = b + ax. They are basically the same thing. So if you're asked to find linear regression slope, all you need to do is find b in the same way that you would find m. Calculating linear regression by hand is tricky, to say the least. There's a lot of summation (that's the Σ symbol, which means to add up). The basic steps are below, or you can watch the video at the beginning of this article. The video at the beginning of this article. The video at the beginning of this article about how to do summation. work), you can also use Excel. How to Find Linear Regression Slope: Steps Step 1: Find the following data from the information given: Σx , Σy , Σxy , Σ and $\Sigma y2$. Step 2: Insert the data into the b formula kere: How to Find a Linear Regression Equation: Overview. How to Find a Linear Regression Equation: Overview. How to Find Regression Equation: Overview. How to Find a Linear Regression Equation: Overview. How to Find a Linear Regression Equation: Overview. How to Find Regression Equation: Overview. How to Find A Linear Regression Equation: Overview. Ho Subscribe to our Youtube channel for lots more stats tips and tricks. Back to top How to Find the Regression coefficient A regression coefficient that you'll find on the AP Statistics test is: $B1 = b1 = \Sigma [(xi - x)(yi - y)] / \Sigma$ this equation is the mean of y and "x" is the mean of x. You could find the regression coefficient by hand in the AP test — you'll use your TI-83 calculator. Why? Calculating linear regression by hand is very time consuming (allow yourself about 30 minutes to do the calculations and check them) and because of the huge number of calculations you have to make wou're very likely to make mathematical errors. When you find a linear regression coefficient for the following set of data: x: 1, 2, 3, 4, 5. y: 3, 9, 27, 64, 102. Step 1: Press STAT, then press ENTER to enter LISTS. You may need to clear data if you already have numbers in L1 or L2. To clear the data: move the cursor onto L1, press CLEAR and then ENTER. Repeat for L2 if you need to. Step 2: Enter your x-data into a list. Press the ENTER key after each entry. 1 ENTER 2 ENTER 3 ENTER 4 ENTER 5 "LinReg(ax+b)". Press ENTER. The TI 83 will return the variables needed for the linear regression equation. The value you're looking for >the regression Test Value Two linear regression test values are used in simple linear regression regression test value are used in simple linear regression. exactly the same way as test values (like the z-score or T statistic) are used in hypothesis testing. Instead of working with a t-distribution table. The linear regression test value is compared to the test statistic to help you support or reject a null hypothesis. Linear Regression test value: Steps Sample question: Given a set of data with sample size 8 and r = 0.454, find the linear regression test value. Note: r is the correlation coefficient, unless it has already been given to you in the question. In this case, r is given (r = .0454). Not sure how to find r? See: Correlation Coefficient for steps on how to find r. Step 2: Use the following formula to compute the test value (n is the sample size): How to solve the formula: Replace the variables with your numbers: $T = .454\sqrt{((8 - 2)/(1 - [.454]2))}$ Subtract 2 from n: 8 - 2 = 6 Square r: $.454 \times .454 = .206116$ Subtract step (3) from 1: 1 - .206116 = .793884 Divide step (2) by step (4): 6 / .793884 = 7.557779 Take the square root of step (5): $\sqrt{7.557779} = 2.74914154$ Multiply r by step (6): $.454 \times 2.74914154 = 1.24811026$ The Linear Regression Test value, T = 1.24811026 The Linear Regression Test value, T = 1.24811026 The Linear Regression Test value, T = 1.24811026 The Linear Regression Test value is a t-score (t) defined by the following equation: t = slope of the sample regression line / standard error of the slope. See: How to find a linear regression test value (with an alpha level) here: Correlation Coefficients. Back to top Leverage in Linear Regression Data points that have leverage have the potential to move a linear regression line. They tend to be outlier is a point that is either an extremely low value. Influential Points If the parameter estimates (sample standard deviation, variance etc.) change significantly when an outlier is removed, that data point is called an influential observation. The more a data point differs from the mean of the other x-values, the more leverage it has. influential point (outlier) will try to pull the linear regression line toward itself. The graph below shows what happens to a linear regression line. The influential point A is included in the upper line but not in the lower line. Outliers with extreme X values (values that aren't within the range of the other data points) have more leverage in linear regression than points with less extreme x-value outliers will move the line more than less extreme x-value of the range from 0 to about 70,000. This one point has an x-value of about 80,000 which is outside the range of the other values. A high-leverage outlier. The point has moved the graph more because it is outside the range of the other values. In general, outliers that have values close to the mean of x will have less leverage that outliers towards the edges of the range. Outliers with values of x outside of the range will have more influence than values closer to the other y-values. Like the videos? Subscribe to our Youtube Channel. Connection to Affine Transformation Linear regression is infinitely connected to affine transformation. The formula y' = b + ax isn't really linear...it's an affine function, which is defined as a linear function, which is defined as a linear function, which is defined as a linear function. So it should really be called affine regression, not linear! References Edwards, A. L. An Introduction to Linear Regression and Correlation. So it should really be called affine regression, not linear! H. Freeman, 1976. Edwards, A. L. Multiple Regression and the Analysis of Variance and Covariance. San Francisco, CA: W. H. Freeman, 1979. - 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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