Free ebook Comparing two proportions guide answers (Read Only)

a proportion is an equality of two ratios we write proportions to help us establish equivalent ratios and solve for unknown quantities proportion says that two ratios or fractions are equal example we see that 1 out of 3 is equal to 2 out of 6 the ratios are the same so they are in proportion example rope a rope s length and weight are in proportion when 20m of rope weighs 1kg then 40m of that rope weighs 2kg 200m of that rope weighs 10kg 1 identify the two quantities you want to compare to calculate a proportion it s essential to first identify the two quantities let s call them x and y you want to find the relationship between 2 write a fraction once you ve determined the two quantities express their relationship in fraction form x y or y x writing the proportions when we think of ratios of values we usually think of fractions a 2 3 ratio spoken as a two to three ratio can be written as a fraction two thirds or proportions are simply described as two equal ratios like this example a true proportion is an equation that states that two ratios are equal if you know one ratio in a proportion you can use that information to find values in the other equivalent ratio a proportion is a statement that two ratios or rates are equal the following two examples show how to read proportions in a proportion two ratios are set equal to each other using a colon or the equals sign the typical setup of a proportion is a b c d when something is in proportion their relative sizes are the same a dog that is 20 inches long and 10 inches tall is proportional to a dog that is 10 inches long and 5 inches tall definition how to solve examples what are proportions a proportion is a compared ratio usually you are ensuring that a given ratio is equivalent to another ratio by seeing if the two ratios are proportional 1 apple 3 oranges this ratio compares apples to oranges it means for every apple there are 3 oranges a proportion will help you solve problems like the one below jane has a box of apples and oranges in the ratio of 2 3 if she has six apples how many oranges does she have a ratio is the quotient of two numbers or the quotient of two quantities with the same units a rate is the quotient of two quantities with different units you must include the units a proportion google classroom problem solve for y 23 y 518 y your answer should be an integer like 6 a simplified properfraction like 3 5 a simplified improperfraction like 7 4 a mixed number like 1 3 4 an exactdecimal like 0 75 a multiple of pi like 12 pi or 2 3 pi related content comparisons between two percentages are much more common than questions about isolated percentages and they are more interesting we often want to know how two groups differ whether a treatment is better than a placebo control or whether this year s results are better than last year s test of two population proportions from independent samples random variable hat p a hat p b difference between the two estimated proportions distribution normal distribution steps 1 set up the null hypothesis and the alternative hypothesis the null hypothesis always contains an equality and is the one you are trying to refute the alternative research hypothesis never contains an equality and is the one you are trying to confirm in this section we want to explore a test to compare two population proportions like testing means the usual null hypothesis will be that proportions are the same we will usually denote each of the two proportions with a subscript say 1 and 2 here are some possible two tailed and one tailed hypotheses begin array lll identify proportional relationships from graphs practice khan academy google classroom microsoft teams answer two questions about the following table at buffalo mild wings the price of chicken wings depends on the number of wings that you order plot the ordered pairs from the table interpret the results the null hypothesis states that the difference in the proportion of male students and the proportion of female students who get a summer job is 0 because the p value is 0 000 which is less than the significance level of 0 05 the financial aid officer rejects the null hypothesis two independent proportions comparison this calculator performs the hypothesis test and also constructs a confidence interval for p1 p 1 p2 p 2 given statistics please report the error to dr jessica kuang at jkuangatvcccd edu to learn how to use this calculator please watch a short video here 9 4 9 4 comparing two proportions so far all of our examples involved testing whether a single population proportion p equals some value p 0 now let s turn our attention for a bit towards testing whether one population proportion p 1 equals a second population proportion p 2 additionally most of our examples thus far key concepts large sample confidence interval for the difference of two population proportions first determine whether the conditions for the large sample confidence interval are met or whether the plus four confidence interval needs to be used the two populations are proportions of papers rejected without review when a statistician is and is not

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a true proportion is an equation that states that two ratios are equal if you know one ratio in a proportion you can use that information to find values in the other equivalent ratio

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in a proportion two ratios are set equal to each other using a colon or the equals sign the typical setup of a proportion is a b c d when something is in proportion their relative sizes are the same a dog that is 20 inches long and 10 inches tall is proportional to a dog that is 10 inches long and 5 inches tall

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1 apple 3 oranges this ratio compares apples to oranges it means for every apple there are 3 oranges a proportion will help you solve problems like the one below jane has a box of apples and oranges in the ratio of 2 3 if she has six apples how many oranges does she have

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comparisons between two percentages are much more common than questions about isolated percentages and they are more interesting we often want to know how two groups differ whether a treatment is better than a placebo control or whether this year s results are better than last year s

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steps 1 set up the null hypothesis and the alternative hypothesis the null hypothesis always contains an equality and is the one you are trying to refute the alternative research hypothesis never contains an equality and is the one you are trying to confirm

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in this section we want to explore a test to compare two population proportions like testing means the usual null hypothesis will be that proportions are the same we will usually denote each of the two proportions with a subscript say 1 and 2 here are some possible two tailed and one tailed hypotheses begin array lll

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interpret the results the null hypothesis states that the difference in the proportion of male students and the proportion of female students who get a summer job is 0 because the p value is 0 000 which is less than the significance level of 0 05 the financial aid officer rejects the null hypothesis

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two independent proportions comparison this calculator performs the hypothesis test and also constructs a confidence interval for p1 p 1 p2 p 2 given statistics please report the error to dr jessica kuang at jkuangatvcccd edu to learn how to use this calculator please watch a short video here

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9 4 9 4 comparing two proportions so far all of our examples involved testing whether a single population proportion p equals some value p 0 now let s turn our attention for a bit towards testing whether one population proportion p 1 equals a second population proportion p 2 additionally most of our examples thus far

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key concepts large sample confidence interval for the difference of two population proportions first determine whether the conditions for the large sample confidence interval are met or whether the plus four confidence interval needs to be used the two populations are proportions of papers rejected without review when a statistician is and is not

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