Example 5: Does one's educational level influence their opinion about vaccinations? A recent Angus Reid¹ survey was taken. Each person sampled was asked to respond to the statement "The science around vaccinations isn't clear." Respondents 'strongly agree', 'moderately agree', 'moderately disagree', or 'strongly disagree'. Of the n = 150 people sampled, n = 376 of had at least an undergraduate university education. Of these, 274 'disagreed'. A similar study concluded that of those less educated Canadians (high school or less), 55% disagree with this statement.

Does this data indicate that the proportion of Canadians having a university-level education who disagree with the 'science of vaccinations isn't clear' statement higher than the proportion of Canadians who are less educated (high school or less)? Test, regulating the probability of committing a Type I error to be 0.05.

$$\frac{Z_{cde} = \hat{\rho} - \rho_0}{\sqrt{\rho_0 (1 - \rho_0)}} = \frac{274 - 0.55}{376} = 6.9660688632.$$

Bosed on This sample the prop. of horizonty ed. people
That disagree with The statement is Sig. greater them 0.55.

OI = P 95% Confident 0.6894732 × p × 1.

Note: lowest be limited value

is 0.6894. -- Does Alot
include 0.55. Sig. greater

why are we so some PHs is 0.55? World't we get sample date There as well? We should Not consider The PHS as a known value unless we have asked all purple with high school ed or less. on 2-sample hypothesis comparison!

<sup>&</sup>lt;sup>1</sup> http://angusreid.org/wp-content/uploads/2015/02/2015.02.13-Vaccinations.pdf