

# Unit 10 Lab Report

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### Section 1: Hypothesis

The goal of this research paper is to determine if regular prayer has any correlation on the opinion of the federal government allowing prayer in school. The following are the hypothesizes examined:

Null: There is no significant correlation between prayer frequency and opinion on prayer in school.

Research<sub>1</sub>: There will be a significance between prayer frequency and opinion on prayer in schools.

$$H_0: \rho_{xy} = 0 \quad H_1: r_{xy} \neq 0$$

### Section 2: Data

### Section 3: Method

```
CrossTable(Module_9_Lab_Data$PrayerFreq, Module_9_Lab_Data$PrayerSchool,  
           expected = TRUE, dnn = c("Prayer Frequency",  
                                     "Prayer in School"),  
           format = c("SPSS"))
```

### Section 4: Results

The results from CrossTable() can be viewed in full in figure 3. As for the results of the Chi-squared test (fig. 4), it returns a p-value of 1.06E-89, well into statistical significance. This is further demonstrated in figure 1.

## **Section 5: Discussion and Conclusion**

From these results, it's clear that prayer frequency has a direct and measurable impact on opinion regarding the allowance of prayer by the federal government in schools.

It stands to reason the null is rejected and  $H_1$  is accepted.

## **Section 6: Graphics and Visuals**