

Week 4 Lab

Quiz, 13 questions

✖ Try again once you are ready.

Required to pass: 80% or higher

You can retake this quiz up to 3 times every 8 hours.

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points

1.

How many people were interviewed for this survey?



A poll conducted by WIN-Gallup International surveyed 51,927 people from 57 countries



Correct



A poll conducted by WIN-Gallup International surveyed 51,000 people from 57 countries



A poll conducted by WIN-Gallup International surveyed 51,917 people from 57 countries



A poll conducted by WIN-Gallup International surveyed 52,000 people from 57 countries

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2.

Which of the following methods were used to gather information?

- ☐ Face to face
- ☐ Telephone
- ☐ Internet
- ☒ All of the above

Correct



0 / 1
points

3.

In the first paragraph, several key findings are reported. These percentages appear to be *sample statistics*.

- ☐ False

This should not be selected

- ☐ True
-

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4.

The title of the report is “Global Index of Religiosity and Atheism”. To generalize the report’s findings to the global human population, We must assume that the sample was a random sample from the entire population in order to be able to generalize the results to the global human population. This does seem to be a reasonable assumption.

☐

False

☒

True



This should not be selected



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points

5.

What does each row of Table 6 correspond to?

☐

Religions

☒

Countries



Correct

☐

Individual Persons

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6.

What does each row of atheism correspond to?

- ☐ Religions
- ☐ Individual Persons
- ☒ Countries



This should not be selected



1 / 1
points

7.

Using the command below, create a new dataframe called us12 that contains only the rows in atheism associated with respondents to the 2012 survey from the United States. Next, calculate the proportion of atheist responses. [TRUE / FALSE] This percentage agrees with the percentage in Table 6.

- ☒ True



Correct

- ☐ False

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8.

Based on the R output, what is the margin of error for the estimate of the proportion of the proportion of atheists in US in 2012?

- ☐ The margin of error for the estimate of the proportion of atheists in the US in 2012 is 0.05.
- ☐ The margin of error for the estimate of the proportion of atheists in the US in 2012 is 0.025.
- ☒ The margin of error for the estimate of the proportion of atheists in the US in 2012 is 0.0135.



Correct



0 / 1
points

9.

Which of the following is false about the relationship between p and ME.

- ☐ The ME reaches a minimum at $p = 1$
- ☒ The ME reaches a minimum at $p = 0$



This should not be selected

- ☐ The most conservative estimate for calculating a confidence interval occurs when p is set to 1
- ☐ The ME is maximized when $p = 0.5$

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10.

There is convincing evidence that Spain has seen a change in its atheism index between 2005 and 2012.

☐

True

☒

False



Correct



1 / 1
points

11.

There is convincing evidence that the United States has seen a change

in its atheism index between 2005 and 2012.

☐

False

☒

True



Correct

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12.

If in fact there has been no change in the atheism index in the countries listed in Table 4, in how many of those countries would you expect to detect a change (at a significance level of 0.05) simply by chance? *Hint: Type 1 error.*

☐

1

☐

0

☐

5

☒

1.95



Correct

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13.

Suppose you're hired by the local government to estimate the proportion of residents that attend a religious service on a weekly basis. According to the guidelines, the estimate must have a margin of error no greater than 1% with 95% confidence. You have no idea what to expect for p . How many people would you have to sample to ensure that you are within the guidelines? *Hint: Refer to your plot of the relationship between p and margin of error. Do not use the data set to answer this question.*

☐ At least 2401 people

☒ At least 9604 people



Correct

☐ 9604 people

☐ 2401 people

