

Universidade Federal de Alfenas
Programa de Pós-graduação em Estatística Aplicada e Biometria
English Proficiency Exam

Registration number: _____

Read the text carefully and answer the questions. Don't forget, you must answer only in Portuguese! Answers in English will not be considered.

Reference:

ASA - American Statistical Association. *Prediction 2016 Results are In: Students Say Hillary Clinton Will Win Presidential Election in Historic Voter Turnout.* Access: November 11th, 2016. Available in: <http://thisisstatistics.org/electionprediction2016>.



Earlier this week, more than 450 high school and college students competing in ASA's Prediction 2016 contest shared their predictions for the 2016 presidential election. Individual and team entries were submitted from 19 states and more than 30 academic institutions.

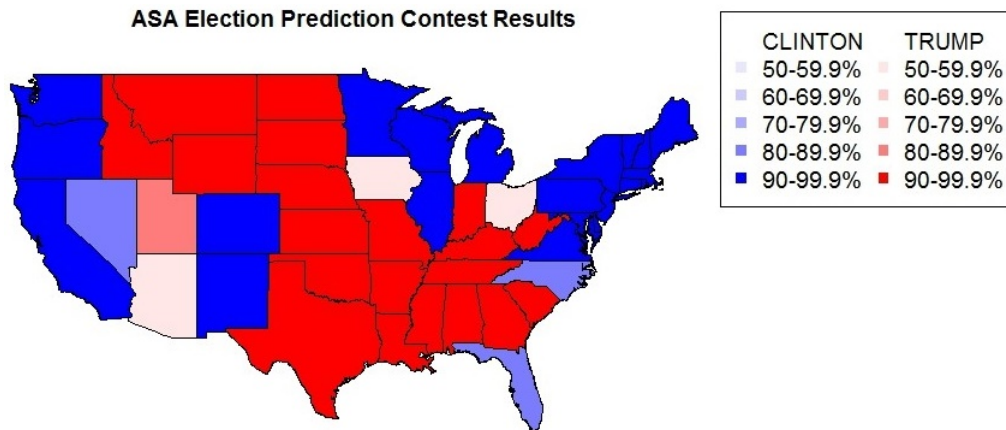
What did their analysis of publicly available data show? Overall, 97 percent of participants predicted that Hillary Clinton will be our next Commander in Chief. The median of contest participant projections show that Clinton will win 332 electoral votes to Trump's 204, and 49.3 percent of the popular vote to Trump's 43.3 percent.

		Percentiles							
Vote Percentage	Mean	Median	10th percentile	20th	25th	75th	80th	90th	
Hillary Clinton	51.0	49.3	43.6	46.3	47.1	52.0	54.1	61.8	
Donald Trump	41.5	43.3	36.3	39.7	40.4	44.6	45.2	47.5	
Gary Johnson	5.7	5.2							
Jill Stein	3.5	1.0							
Total:	101.7	98.8			2.5	11.6			
Electoral College	Mean	Median							
Hillary Clinton	331.9	332	290.8	317.0	323.0	349.0	353.6	358	
Donald Trump	200.5	204	177.6	180.0	186	215	216	237.4	
Gary Johnson	3.4	0							
Other	2.2	0							
Total:	538.0	536.0			108.0	163.0			
# of States won	Mean	Median							
Hillary Clinton	27.1	27.0	24.0	26.0	26.0	28.0	29.0	29.8	
Donald Trump	23.3	24.0	21.0	22.0	22.0	25.0	25.0	26.0	
Gary Johnson	0.4	0.0							
Other	0.2	0.0							
Total:	51.0	51.0			1.0	6.0			

To predict the winners, many students analyzed existing national and statewide polls, and weighted them according to a variety of factors. Some students also analyzed demographic data to identify trends in voting. Methods varied from taking averages of polls to running linear regression and time series analysis.

Among key projections based on the collection of student entries:

- Clinton will win 26 states (and the District of Columbia) to Trump's 24 states.
- Among the battleground states, Trump will win Arizona, Iowa and Ohio and Clinton will win Florida, Nevada and North Carolina.
- 132 million voters will cast ballots in the 2016 election, the largest voter turnout in absolute numbers in United States history.



For a state-by-state view, this map shows Clinton victories in blue and Trump wins in red. In all but Arizona, Iowa, and Ohio, more than 80 percent are in agreement. Ohio is especially close with 97 teams predicting Trump as the winner, 92 Clinton, and four predicting Gary Johnson or other. 98 teams predict Trump will claim Iowa, as do 90 Clinton, and five Gary Johnson or other. In Arizona, 113 predict Trump will win Arizona while 76 predict a Clinton victory.

The middle 50 percent of the predicted electoral college predictions range from 323 to 349 for Clinton and 186 to 215 for Trump. For this group (the middle 50 percent), the popular vote percentages range from 47.1 to 52.0 percent for Clinton and 40.4 to 44.6 percent for Trump. The middle 50-percent spreads for number of states won are 25 to 27 for Clinton and 22 to 25 for Trump.

College students also had the option to predict the share of votes cast for Hillary Clinton and Donald Trump by various voter demographic groups. The following table indicates the averages for their results:

Candidate	Female	Male	African American	Hispanic	White
Clinton	55.4%	42.3%	86.7%	65.5%	40.4%
Trump	37.2%	49%	7.5%	23.8%	50.3%

The winners of the contest will be announced shortly after the official presidential election results become available. The first place winners will receive a prize package from ASA, including \$200, a complimentary ASA membership, a guest column in the popular Sense about Science blog, and a Prediction 2016 T-shirt.

Question 1: When that text was accessed and who is its author?_____

Question 2: How would you translate the title of the text? _____

Question 3: What is this text about?_____

Question 4: Explain the ASA's Prediction 2016 contest._____

Question 5: According to the predictions who would win the election and how that winning would be?_____

Question 6: What were the methods used in the prediction?_____

Question 7: Cite the three main projections._____

Question 8: What can you say from a state-by-state point of view?_____

Question 9: Which candidate is more popular among African American and Hispanic?_____

Question 10: Which prizes will the winners receive?_____
