

Michael Simmons

Quantitative Analysis Assignment

POLS 1100: Worksheet #1

Use the table below to answer questions 1, 2 and 3.

State	Median Household Income	Median Price of House
Utah	\$ 55,220.00	\$ 146,100.00
Colorado	\$ 55,517.00	\$ 166,600.00
Wyoming	\$ 52,433.00	\$ 96,600.00
Idaho	\$ 46,136.00	\$ 106,300.00
Montana	\$ 43,000.00	\$ 99,500.00

Question 1: What do we mean by terms like "median household income" and "median house price"? *The Median would be the middle value accounting for any outliers.*

Question 2: Which state has the highest median household income, and which state has the lowest? *Colorado*

Question 3: What is Montana's household income as a percentage of Utah's. Explain how you arrived at your answer. *77.87%. Divide Montana by Utah. (Montana/Utah)*

Question 4: Which state has the highest median family income as a percentage of the median house price in that state? Explain how you arrived at your answer. *Wyoming. Divide each median income by the median price of a house and then locate the highest percentage.*

(Over)

Use the table below to answer questions 5 and 6.

Candidate	Number of Donors	Money Raised
Mr. Salinger	895	\$180,000
Mrs. Shelley	1,562	\$200,000
Mr. Vonnegut	367	\$190,000
Ms. Atwood	505	\$140,000

Question 5: Overall, which candidate raised the most money per donor? Explain how you arrived at your answer. *Mr. Vonnegut. Divide Money Raised by Number of Donors.*

Question 6: Calculate Ms. Atwood's number of donors as a percentage of Mrs. Shelly's. Explain how you arrived at your answer. *32.33%. Divide number of donors for Ms. Atwood by number of donors for Mr. Shelly.*

Question 7: Between the four candidates, what is the mean amount of money raised? Explain how you arrived at your answer. *\$177,500. Sum of money raised divided by number of candidates.*

Question 8: Between the four candidates, what is the mean number of donors? Explain how you arrived at your answer. *832. Sum number of donors and divide by number of candidates.*

Question 9: Calculate Mr. Salinger's money raised as a percentage of that raised by Mr. Vonnegut. Explain how you arrived at your answer. *94.73%. Money raised by Mr. Salinger divided by money raised by Mr. Vonnegut.*

Question 10: Comparing Mr. Salinger and Ms. Atwood, which candidate raised the most money per donor? Explain how you arrived at your answer. *Ms. Atwood. Ms. Atwood has a higher mean donation or average donation calculated by taking the amount of money raised and dividing it by the number of donors.*