Student Name:		

Gender Gap Worksheet

Use the	CFPR Visi	ualization Ap	plet to	explore the	data and	answer the	following	questions
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Plot	the distribution of age . Based on the plot, which value bests captures a typical val
	e data?
ā	. Mean
k	. Median
C	. Mode
C	. Mode
Wha	. Mode . Standard deviation
Wha educ	 Mode Standard deviation t plot would you choose to explore the relationship between <i>earnings</i> and <i>ation</i>? Scatter plot
Wha educ	 Mode Standard deviation t plot would you choose to explore the relationship between <i>earnings</i> and <i>ation</i>? Scatter plot Line graph
Wha educ a k	 Mode Standard deviation t plot would you choose to explore the relationship between <i>earnings</i> and <i>ation</i>? Scatter plot Line graph Box plot
Wha educ a k	 Mode Standard deviation t plot would you choose to explore the relationship between <i>earnings</i> and <i>ation</i>? Scatter plot Line graph
Wha educ a k	 Mode Standard deviation t plot would you choose to explore the relationship between <i>earnings</i> and <i>ation</i>? Scatter plot Line graph Box plot

5.	Explore the relationship between <i>earnings</i> and <i>education</i> by gender. Do <u>not</u> remove individuals who earned more than \$150,000. Describe your observations.

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For questions 6-8 select the best plot to investigate the question then select the best response to convey your findings.

- 6. "Does a woman's occupation affect how much she earns compared to a man?".
 - a. What plot would you choose to investigate this question?
 - i. Scatterplot with x: Occupation and y: Earnings separated by gender
 - ii. Stacked bar with x: Occupation and y: Earnings separated by gender
 - iii. Boxplot with x: Occupation and y: Earnings separated by gender
 - iv. Histogram of earnings for each occupation separated by gender
 - b. Look at the plots of earnings by gender for the following occupations: 18: Lawyers, Judges, and Magistrates and 27: Health Technicians. How would you best convey your findings?
 - i. Lawyers, Judges, and Magistrates have little difference in earnings, while Health Technicians have a large difference.
 - ii. Lawyers, Judges and Magistrates on average have no difference in earnings, while Health Technicians on average men make about \$13,000 more a year.
 - iii. There is no difference in median earnings between men and women for Lawyers, Judges, and Magistrates, while the median earnings for male health technicians are \$15,000 more than females.
 - iv. Median earnings show no difference between men and women for Lawyers, Judges, and Magistrates, while male health technicians earn more than females.

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- 7. "Does a woman's race affect how much she makes compared to a man?".
 - a. What plot would you use to investigate this question?
 - i. Scatterplot with x: Race and y: Earnings separated by gender
 - ii. Stacked bar with x: Race and y: Earnings separated by gender
 - iii. Boxplot with x: Race and y: Earnings separated by gender
 - iv. Histogram of earnings for each race separated by gender
 - b. Compare earnings between Black and White respondents. How would you *best* convey your findings?
 - i. Blacks on average earned \$8,000 less than Whites
 - ii. Median earnings for White women were \$5,000 more than Black women.
 - iii.The difference in median earnings for White male and females was \$13,000 compared to a difference of \$5,000 for Black male and females. Additionally, there was a \$5,000 difference between White and Black women.
 - iv. There was a difference of \$18,000 in median earnings between White males and Black females.
- 8. Suppose you were asked "Do women with children pay a 'motherhood penalty'?"
 - a. What plot would you use to investigate this question?
 - i. Scatterplot with x: FamilySize and y: Earnings separated by gender
 - ii. Stacked bar with x: FamilyMakeup and y: Earnings separated by gender
 - iii. Boxplot with x: FamilySize and y: Earnings separated by gender
 - iv. Histogram of earnings for each category of FamilyMakeup separated by gender
 - b. Which of the following sentences *best* summarizes your findings about the earnings between men and women when we consider the number of children in the family?
 - i.Men and women react to changes in children differently
 - ii.Both men and women earn less as the number of children increases.
 - iii. The slope of male and female earnings was negative for both men and women, in other words, children had negatives effect on earnings regardless of gender.
 - iv. The slopes for earnings as family size increased shows a steeper negative slope for females than it does for males. This suggests that women pay a greater penalty for having children than men do.