1. What is an appropriate way to visualize a list of the eye colors of 120 people? Select all that apply. 1 point

- [x] pie chart
- [x] dot plot
- [ ] box plot

2. According to the histogram of travel times to work from the US 2000 census (Page 6 of "Journey to Work: 2000"), roughly what percentage of commuters travel more than 45 minutes? 1 point

15.4

3. According to the histogram of travel times to work from the US 2000 census (Page 6 of "Journey to Work: 2000"), approximately what is the median travel time, in minutes (i.e. 50% of commuters have at most that travel time, 50% have at least that travel time)? 1 point

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4. You want to investigate whether households in California tend to have a higher income than households in Massachussetts. Which summary measure would you use to compare the two states? 1 point

- ( ) mean household income
- (•) median household income
- ( ) 3rd quartile of household income

5. Suppose all household incomes in California increase by 5%. How does that change the mean household income? 1 point

- ( ) the mean household income doesn't change
- ( ) cannot be determined from the information given
- (•) the mean household income goes up by 5%

6. Suppose all household incomes in California increase by 5%. How does that change the median household income? 1 point

- (•) median household income goes up by 5%
- ( ) the median household income doesn't change
- ( ) cannot be determined from the information given

7. Suppose all household incomes in California increase by 5%. How does that change the standard deviation of the household incomes? 1 point

- ( ) the standard deviation of the household incomes doesn't change
- ( ) cannot be determined from the information given
- (•) the standard deviation of the household incomes goes up by 5%

8. Suppose all household incomes in California increase by 5%. How does that change the interquartile range of the household incomes? 1 point

- (•) the interquartile range of the household incomes goes up by 5%
- ( ) cannot be determined from the information given
- ( ) the interquartile range of the household incomes doesn't change

9. Suppose all household incomes in California increase by $5,000. How does that change the mean household income? 1 point

- ( ) cannot be determined from the information given
- ( ) the mean household income doesn't change
- (•) the mean household income goes up by $5,000

10. Suppose all household incomes in California increase by $5,000. How does that change the median household income? 1 point

- ( ) the median household income doesn't change
- ( ) cannot be determined from the information given
- (•) the median household income goes up by $5,000

11. Suppose all household incomes in California increase by $5,000. How does that change the standard deviation of the household incomes? 1 point

- (•) the standard deviation of the household incomes doesn't change
- ( ) the standard deviation of the household incomes goes up by $5,000
- ( ) cannot be determined from the information given

12. Suppose all household incomes in California increase by $5,000. How does that change the interquartile range of the household incomes? 1 point

- (•) the interquartile range of the household incomes doesn't change
- ( ) the interquartile range of the household incomes goes up by $5,000
- ( ) cannot be determined from the information given

13. The median sales price for houses in a certain county during the last year was $342,000. What can we say about the percentage of sales represented by the houses that sold for more than $342,000? 1 point

- ( ) the houses that sold for more than $342,000 represent more than 50% of all sales
- (•) the houses that sold for more than $342,000 represent exactly 50% of all sales
- ( ) the houses that sold for more than $342,000 represent less than 50% of all sales

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