Congratulations! You passed!

Grade received 100% **Latest Submission Grade** 100% **To pass** 80% or higher

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

- [x] dot plot

Correct
That's correct.

- [ ] box plot
- [x] pie chart

Correct
That's correct.

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 / 1 point**

15

Correct

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 / 1 point**

20

Correct

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 / 1 point**

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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

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

Correct
That's correct.

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 / 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

Correct
That's correct.