

## Practice Assignment: Statistical Questions

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- 1) Which of the properties below should a good statistical question have? Select all that apply. There may be more than one correct answer.
- a) The question requires data in order to answer it.
  - b) The question has an exact answer.
  - c) The question anticipates variability.
  - d) The question seeks to find a general trend, central tendency, or typical value.

Questions 2–5: Consider the bad driver data<sup>1</sup> that we used in our in-class activity. For each of the questions below, determine whether it is a good statistical question and whether the question can be answered with the bad driver data.

- 2) Which U.S. state has the worst speeders?

Part A: Is this question a good statistical question?

- a) Yes
- b) No

Explain your answer.

Part B: Can this question be answered using the bad driver data?

- a) Yes
- b) No

Explain your answer.

- 3) What percentage of automobile accidents in the United States in 2019 involved Uber drivers?

Part A: Is this question a good statistical question?

- a) Yes

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<sup>1</sup> *bad\_drivers: Dear Mona, which state has the worst drivers?* (n.d.). RDocumentation. Retrieved from [https://www.rdocumentation.org/packages/fivethirtyeight/versions/0.6.1/topics/bad\\_drivers](https://www.rdocumentation.org/packages/fivethirtyeight/versions/0.6.1/topics/bad_drivers)

b) No

Explain your answer.

Part B: Can this question be answered using the bad driver data?

a) Yes

b) No

Explain your answer.

4) Which U.S. state has the highest average combined car insurance premiums?

Part A: Is this question a good statistical question?

a) Yes

b) No

Explain your answer.

Part B: Can this question be answered using the bad driver data?

a) Yes

b) No

Explain your answer.

5) Does driving tend to be more dangerous on the east coast or the west coast of the United States?

Part A: Is this question a good statistical question?

a) Yes

b) No

Explain your answer.

Part B: Can this question be answered using the bad driver data?

a) Yes

b) No

Explain your answer.