

USCOTS 2019

Review Power Quiz

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@alittlestats

True or False?

Sometimes we need to break out the Play-Doh to help our students understand statistical concepts.



What tool should we use for statistical computations?

- A. Computer programs
- B. Open-source computer applications
- C. Graphing calculators
- D. Tables of standard distribution values
- E. Whichever of the above is available and can help us answer the statistical question at hand

When making an inference conclusion, what statistical evidence should we cite?

- A. Data visualization
- B. P-value
- C. Confidence interval
- D. Simulation results
- E. At least one of the above done well



2019 AP Statistics Exam

Question #6 (Investigative Task):

Construct bootstrap confidence interval of the median price for a one-bedroom apartment

Which is the better
statistical approach?

Frequentist & Bayesian

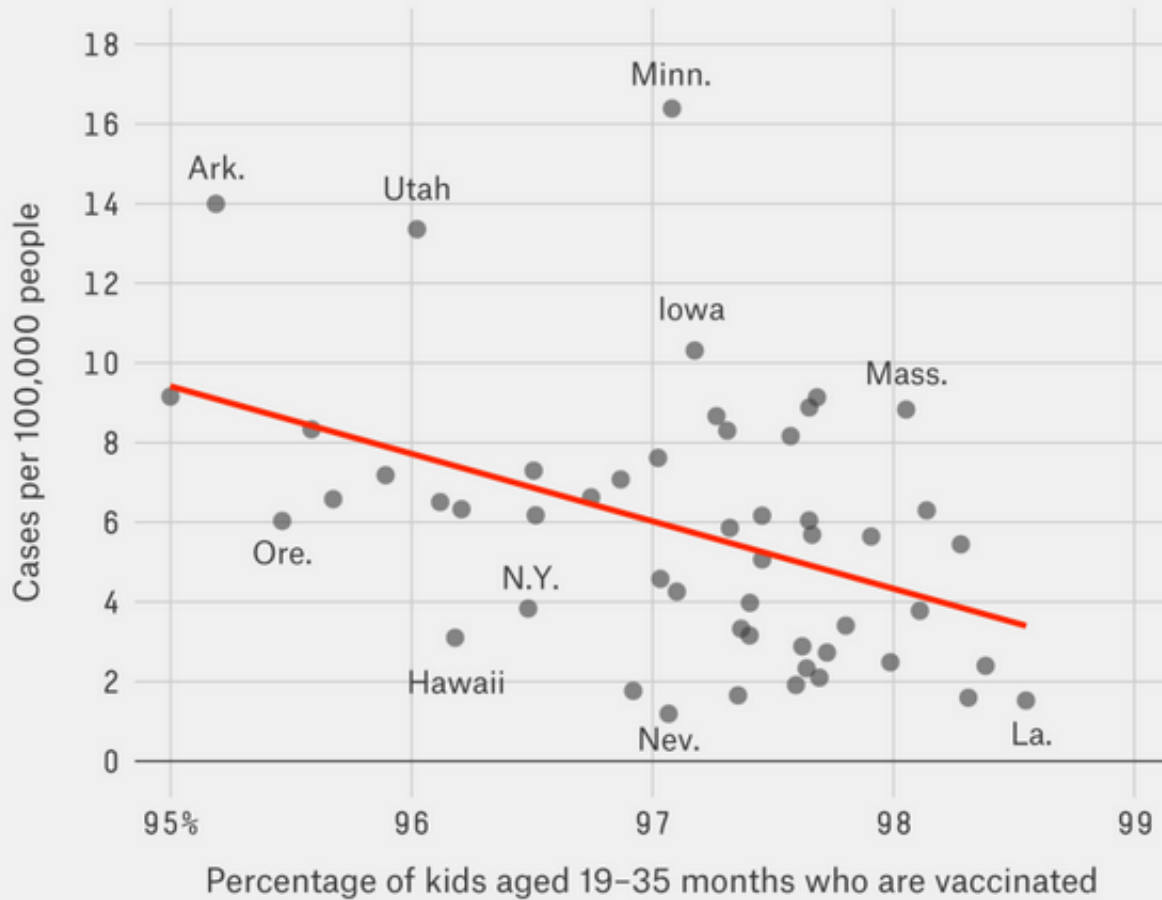
True or False?



Statistics students should analyze real world, multivariable data.

Whooping Cough Cases And Vaccination Rates

By state, 2012



FIVETHIRTYEIGHT

SOURCE: NATIONAL IMMUNIZATION SURVEY

Oster, E. (Aug. 19, 2014). "Why States Should Aim For 100 Percent Vaccination." *FiveThirtyEight*.



Courtesy of BTHS Alumni Foundation

Which of the following is true?

- A. Correlation \neq causation.
- B. Correlation \neq causation.
- C. Correlation \neq causation.
- D. Correlation \neq causation.
- E. Correlation \neq causation.

AP/Intro Statistics Student Motto?

We know some stuff; we
want to know more.

– Ron Wasserstein