

- Courseware
- Course Info
- Discussion
- Syllabus
- Download R and RStudio
- R Tutorials
- Readings
- Contact Us
- Progress
- Office Hours
- Community

Reflect on the Question

Analyze the Data

Draw Conclusions

Primary Research Question

Compare the weight of adult cats and dogs at the shelter. How typical would it be to find a 13-pound cat? What about a 13-pound dog?

(9/11 points)

Write Your Conclusion

Answer the question and support your answer with statistics:

The distribution of adult cats in the shelter is roughly symmetric with a mean of 8.6 pounds and a standard deviation of 1.9 pounds. 98% of adult cats at the shelter weigh between 4.16 and 13.05 pounds. The distribution of adult dogs in the shelter is positively skewed, with a median of 35.3 pounds and an IQR of 40.4 pounds. Half of the dogs at the shelter do weigh much more, including one that weighs 131.00). As the two distributions are to be compared, and one distribution is skewed, the data

shows that the median weight for both groups is 8.5 for cats and 35.3 for dogs.

A 13-pound cat would not be typical at the shelter. On the other hand, about 75% of all dogs at the shelter weigh more than 13 pounds. Overall, the distributions of weights for adult cats and adult dogs at the shelter differ both in shape and in measures of center and spread. Cats generally weigh less and have less variation in their weights than dogs, while dogs tend to weigh more and have more variability.

Help

[Hide Answer](#)*You have used 2 of 2 submissions*

EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by founding partners Harvard and MIT.

EdX, Open edX, and the edX and Open edX logos are registered trademarks or trademarks of edX Inc.

Terms of Service and Honor Code

Privacy Policy (Revised 10/22/2014)

Help

About edX

About

News

Contact

FAQ

edX Blog

Donate to edX

Jobs at edX

<https://courses.edx.org/courses/UTAustinX/UT.7.01x/3T2014/courseware/533c9...>

Follow Us



Twitter



Facebook



Meetup



LinkedIn



Google+