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## 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  with a  of 8.6 pounds and a standard deviation of  pounds. 98% of adult cats at the shelter weigh between  and  pounds. The distribution of adult dogs in the shelter is , 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  ). As the two distributions are to be compared, and one distribution is skewed, the data shows that the median weight for both groups is  for cats and 35.3 for dogs.

A 13-pound cat  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  variation in their weights than dogs, while dogs tend to weigh more and have  variability.

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