

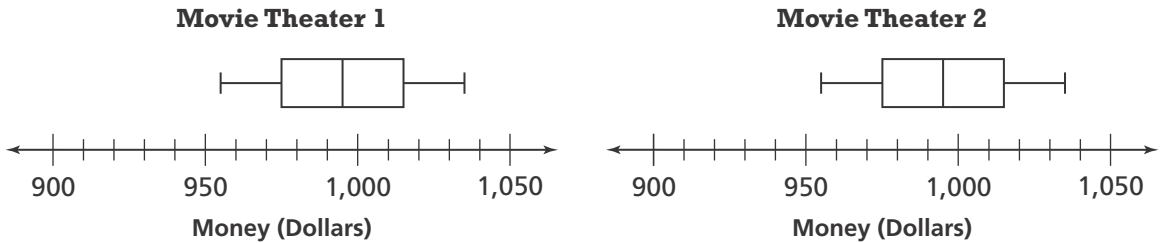


6-3 Additional Practice

Scan for
Multimedia



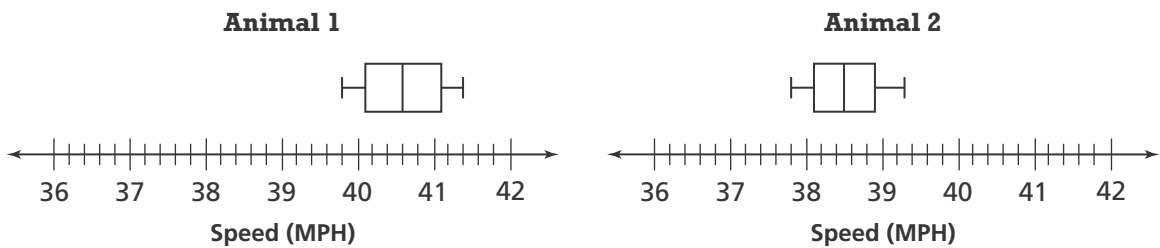
1. A student wants to compare the amount of money that two local movie theaters make over a two-week period for the last nightly showing of a particular movie. The following box plots show the data for the amount of money each theater makes over the period. Compare the median of each box plot.



The median for Movie Theater 1 is the median for Movie Theater 2.

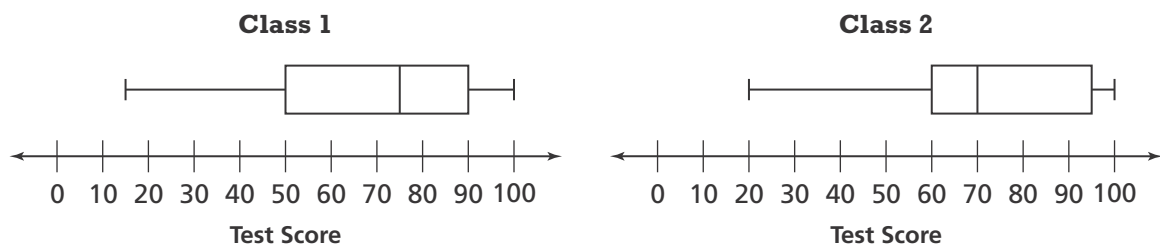
So the amount made is .

2. The box plots display the speeds, in miles per hour, that two different animals run while hunting. Compare the medians of each dot plot by completing the statement below.



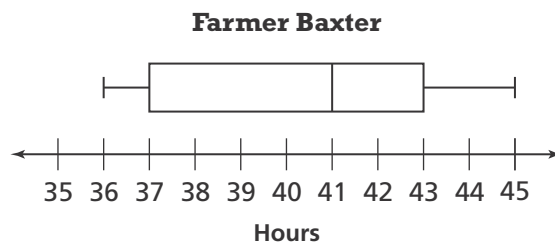
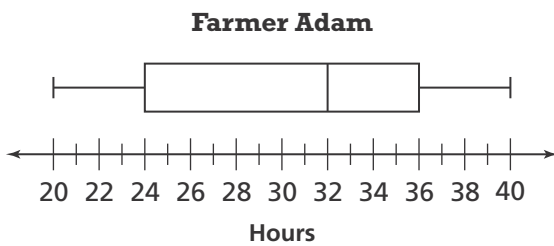
The median running speed of Animal is greater.

3. The box plots below describe the test scores on a recent math test in two classes. What is the interquartile range (IQR) of the test scores for each class? Make a comparative inference about the populations based on the IQR.



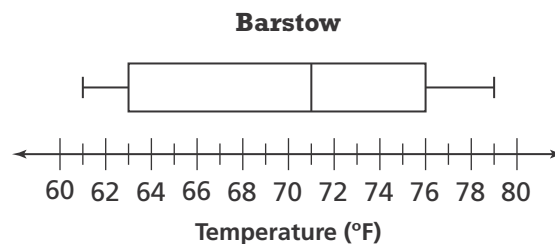
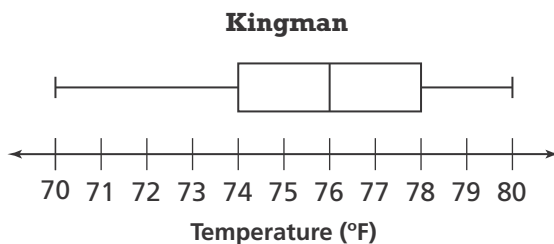
4. Angela is comparing the amount of rainfall over the past month in two cities on days when it rained. In City 1, the range in rainfall is 4.5 centimeters and the IQR is 1.5 centimeters. In City 2, the range is 5 centimeters and the IQR is 3 centimeters. What might you conclude about the cities based on the ranges and interquartile ranges?

5. **Higher Order Thinking** The box plots below show the amount of time two farmers spent harvesting many varieties of crops during the past two months. What might you conclude about the harvests based on the interquartile range (IQR)? Explain what the IQR describes about a population.



© Assessment Practice

6. The following dot plots show the high temperatures, in degrees Fahrenheit, of two cities during the previous 10 days.



- a. Find the IQR for each city.

- b. What might you conclude about the weather in these cities based on the IQR?

- Ⓐ The high temperature in Barstow is more consistent than the high temperature in Kingman.
- Ⓑ The high temperature in Kingman is more consistent than the high temperature in Barstow.
- Ⓒ The high temperatures in Kingman and Barstow show similar variability.
- Ⓓ The cities of Kingman and Barstow are likely in different states.

