

## Practice Problem Set

## ANSWER KEY

1. Jason saves a portion of his salary from his part-time job in the hope of buying a used car. He recorded the number of dollars he was able to save over the past 15 weeks. Create a box and whisker plot for the set of data.

Dollars saved: 19, 12, 9, 7, 17, 10, 6, 18, 9, 14, 19, 8, 5, 17, 9

Minimum Value: **5**

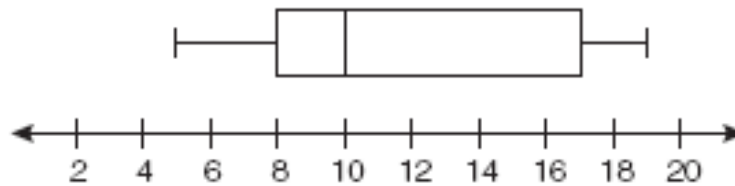


Maximum Value: **19**

Median: **10**

Lower Quartile: **8**

Upper Quartile: **17**



Dollars Saved

2. Examine the box plot pictured to the right and complete a – d.

a) What is the value of the upper quartile? **11**

b) What is the median score? **7**

c) What is the interquartile range of the data set?  $11 - 4 = 7$

d) What is the range of the data set?  $12 - 2 = 10$



3. A movie theater recorded the number of tickets sold daily for a popular vampire movie during the month of December. The box plot shows the data for the number of tickets sold, in hundreds. Determine whether the following statements are **true** or **false**.

a) 25% of the data is between 300 and 400 **True**

b) The lower quartile is 300 **True**

c) 50% of the data is between 300 and 600 **True**

d) The interquartile range is 800 **False**

( $IQR = 6 - 3 = 3$ )

The interquartile range is 300.

