Box and Whisker Plots Name _____
Algebra 1-2 Period _____

Put the list of numbers in order, identify Q1(Lower Quartile), Q2(Median), and Q3(Upper Quartile) and then draw a box-and-whisker plot for each set of data.

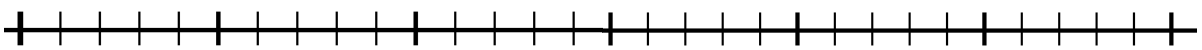
1. *{6, 9, 22, 17, 14, 11, 18, 28, 19, 21, 16, 15, 12, 3}*

List in order _____

Q1

Q2

Q3



2. *{$45, $37, $50, $53, $61, $95, $46, $40, $48, $62}*

List in order _____

Q1

Q2

Q3

3. *{14, 9, 1, 16, 20, 17, 18, 11, 15}*

List in order _____

Q1

Q2

Q3

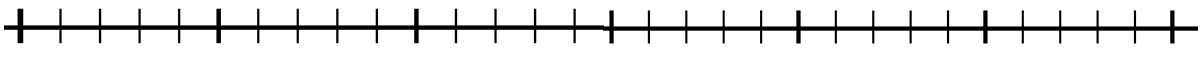
4. {$20, $35, $42, $26, $53, $18, $36, $27, $21, $32}

List in order _____

Q1

Q2

Q3



5.

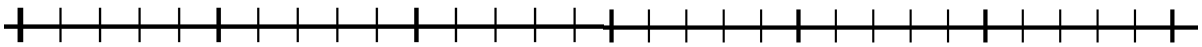
Goals scored by MLS leading scorers 2000		
26	15	12
16	15	1
13	11	10
16	15	5
16	13	9

List in order _____

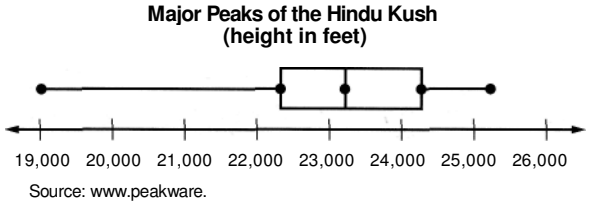
Q1

Q2

Q3

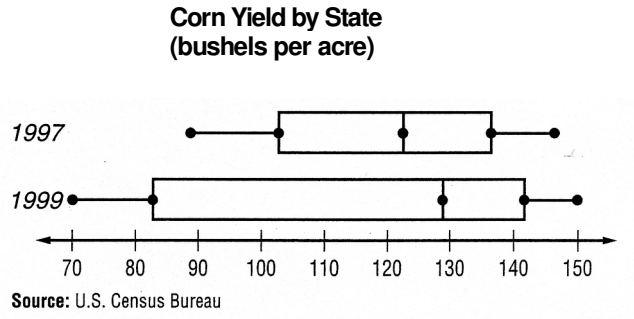


For Exercises 6-8, use the box-and-whisker plot shown.



6. How tall is the highest peak of the Hindu Kush?
7. What is the median height of the major peaks?
8. Write a sentence describing what the box-and-whisker plot tells about the major peaks of the Hindu Kush.

For Exercises 8-10, use the box-and-whisker plot shown.



9. In which year was the corn yield more varied? Explain.
10. How does the median yield in 1999 compare with the median yield in 1997?
11. Write a couple of sentences that compare the 1997 yields with the 1999 yields.

12. Each box and whisker plot at the bottom of the page shows the prices of used cars (**in thousands of dollars**) advertised for sale at three different car dealerships.

a. Which dealer offers the least expensive car and at what price? _____

_____

b. Which dealer has the lowest median price and how much is it? _____

_____

c. Which dealer has the smallest price range and what is it? _____

_____

d. Which dealer's prices have the smallest Interquartile Range (**Q3-Q1**), and what is it?

_____

e. Which dealer generally sells less expensive cars? _____
Support your answer with information from the box and whisker plots.

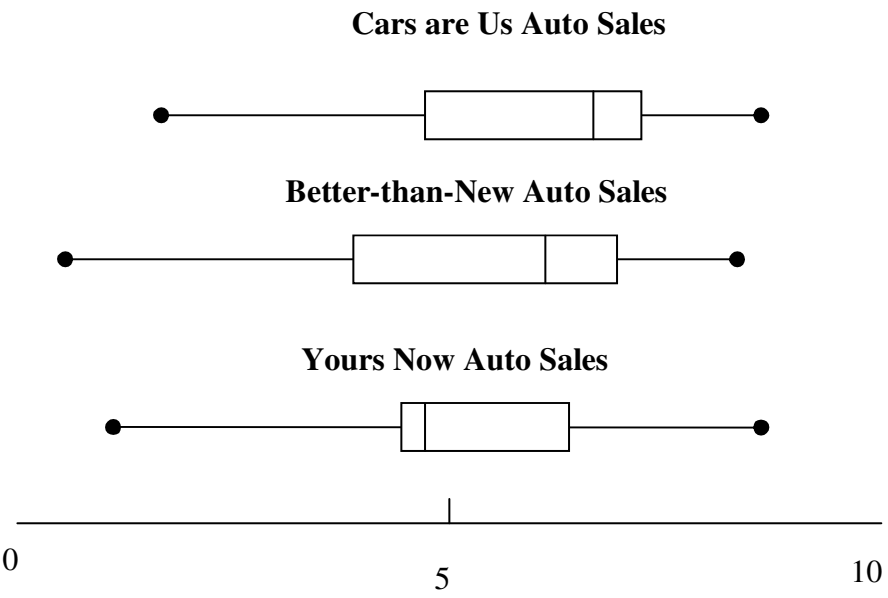
_____

_____

_____

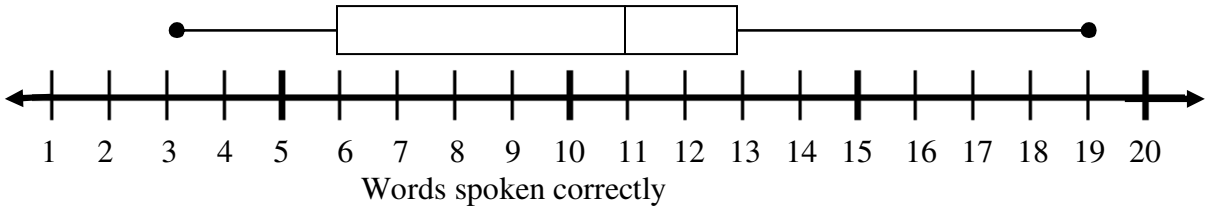
_____

_____



13. Several students entered a ***Talk Like a Pirate*** contest. They sent in a tape of themselves talking like a pirate and 3 weeks later got their scores back. To help them understand just how well they did compared to other contestants, the ***Talk Like a Pirate*** A***ssociation*** included a box and whisker graph showing the scores for all 10,000 contestants. Use the graph to answer the questions below.
Explain all your answers!

Scores for the 2011 ***Talk Like a Pirate*** contest.



A. Legolas had a score of 13. He claims that means he speaks better pirate talk then ¾ all the people who entered the contest. Does the data support his claim?

B. David Jones had a score of 4. How does he compare to other pirate talkers?

C. Jack claims he got all 20 words correct, but he refuses to let anyone look at his score report. Should you believe him?

D. There were 10,000 people who took the test. How many people scored better than a 6?

E. 5,000 people scored better on the test than Kiera and 5,000 scored worse. What was Kiera's score?