SOL 7.16
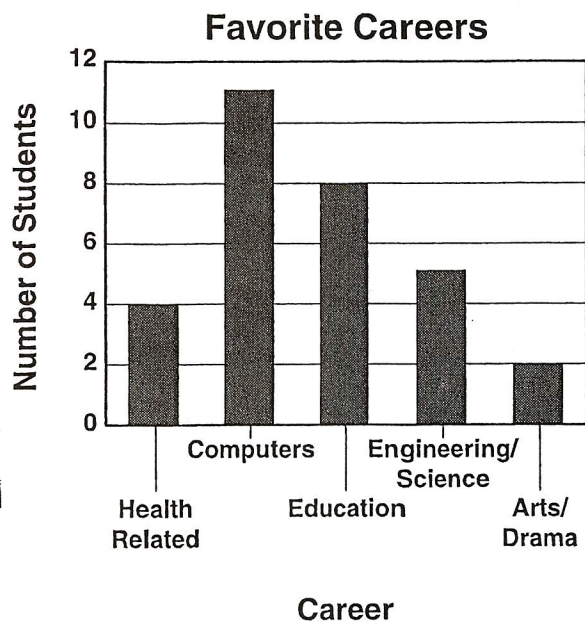
Rhea took a survey of the students in her class to find out about their career interests. The results are shown in the graph.

Favorite Careers

The mode of the data is associated with which career?

A Health Related
B Engineering/Science
C Education
D Computers

ALTON TIGERS

Starting Lineup

Guard	Hal Conley	65 in.
Guard	Sid Rowley	61 in.
Forward	Jeno Brown	72 in.
Forward	Emmit Cello	72 in.
Center	Raoul Diaz	74 in.

What is the mean height of the players in the starting lineup of the Alton Tigers?

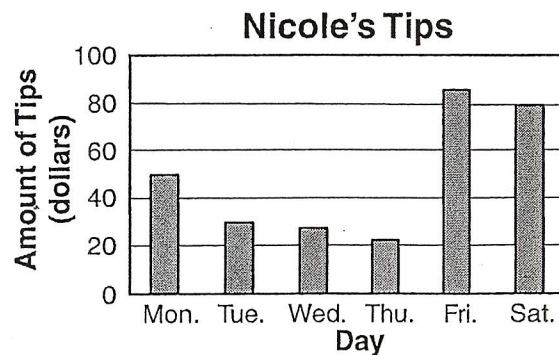A 67.4 in.
B 68.8 in.
C 72 in.
D 74 in.

Look at the table.

Lopez Family

Family Member	Age (in years)
Grandmother	55
Grandfather	54
Mother	33
Father	33
Son	8
Daughter	5

Based on the ages of the Lopez family members, which of the following has the *greatest* value?

Mean
Median
Mode
Range

The graph shows the amount Nicole received in tips while working at a restaurant for six days.

Nicole's Tips

Which day's tip amount is closest to the mean (average) for the six days?

A Monday
B Wednesday
C Thursday
D Friday

Darrell had biology test scores of

76, 78, 76, 82, 62, and 100.

For this data, which measure is greatest?

F Mean
G Median
H Mode
J Range

The stem-and-leaf plot shows the number of home runs hit per year by the leading hitter of the major leagues over a 10-year period.

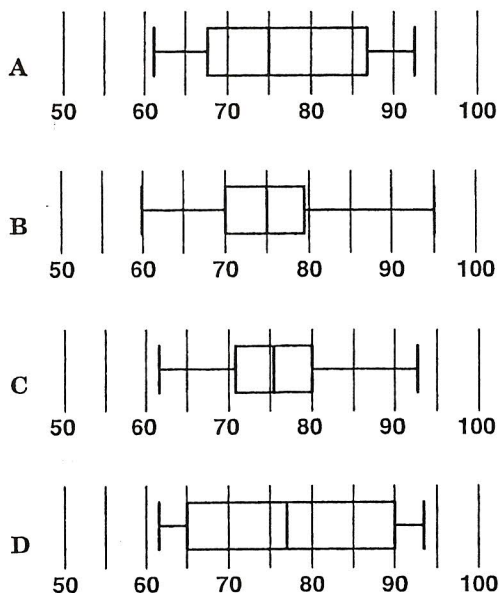| Stem	Leaf
3	7, 8, 9
4	0, 4, 8, 8
5	6, 7, 8

What is the mode for the data?

A   37
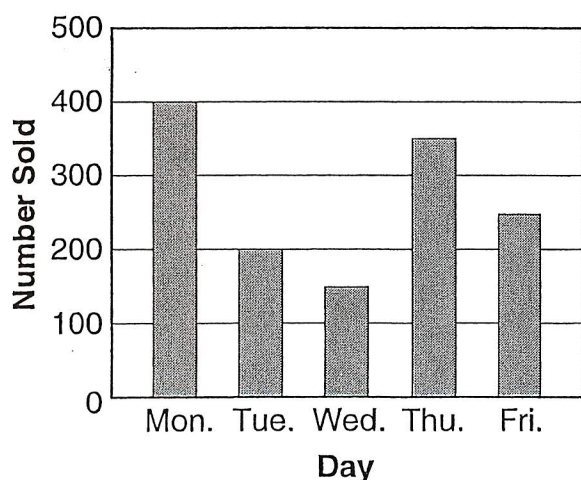
B   44

C   48

D   58

The list shows the scores made by each member of Jaime's discussion group on the last test.

69 79 62 93 73 81 73 78

Which box-and-whiskers plot correctly displays the information?

A

50 60 70 80 90 100

B

50 60 70 80 90 100

C

50 60 70 80 90 100

D

50 60 70 80 90 100

Lunch Sales
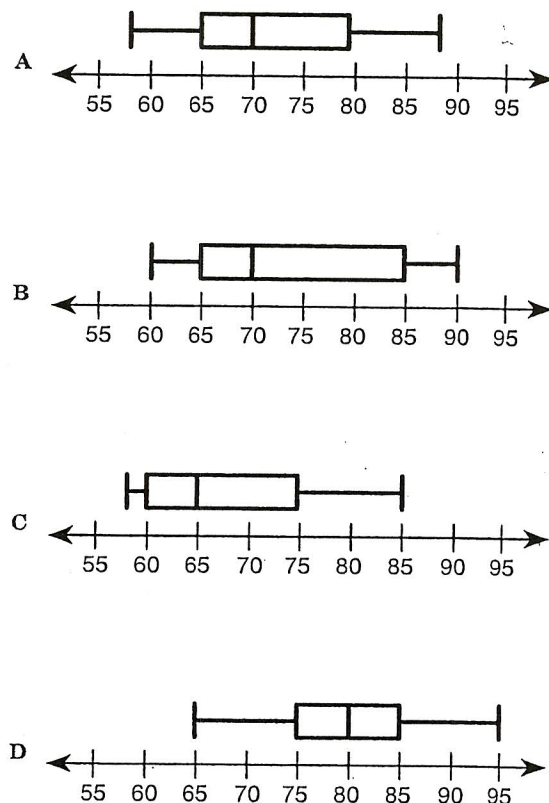

What was the daily average (mean) number of lunches sold during the week?

A   225
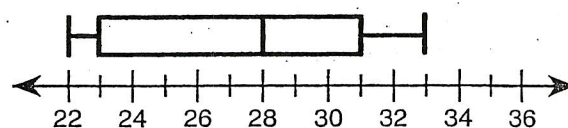B   250
C   270
D   290

A study was conducted to determine the effectiveness of a speed limit sign. The speeds of cars at the 65 mph sign were:

79 60 70 65 70 85 74 58 71 88 65

Which box-and-whisker plot correctly displays the information?

A

55 60 65 70 75 80 85 90 95

B

55 60 65 70 75 80 85 90 95

C

55 60 65 70 75 80 85 90 95

D

55 60 65 70 75 80 85 90 95

The box-and-whisker plot shows the class sizes in 15 schools.

22 24 26 28 30 32 34 36

Which statement concerning the class sizes *must* be true?

The range of size is 8.
The largest class is 31.
Half of the classes are larger than 23.
The median class size is 28.

Soccer is the world's most popular sport. The table lists the records of 5 World Cup winners.

Country	Games Won	Games Lost	Ties	Total Points
Argentina	24	15	9	57
Brazil	44	11	11	99
England	18	11	12	48
Italy	31	11	12	74
West Germany	39	14	15	93

What was the median number of total points scored by these teams?

A   51
B   74
C   74.2
D   99

Look at the table.

Sports Participation

Sport	Number of Students
Volleyball	26
Basketball	68
Soccer	68
Baseball	62

What is the median number of students participating in a sport?

A   56
B   62
C   65
D   68

The scores Brianna earned on 4 of the 5 science tests she has taken so far this year are listed.

95, 90, 85, 95
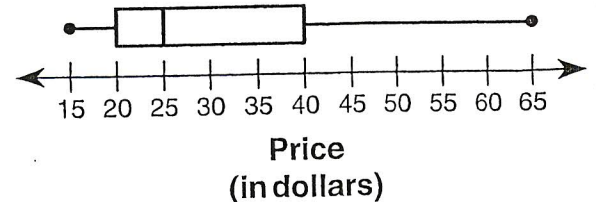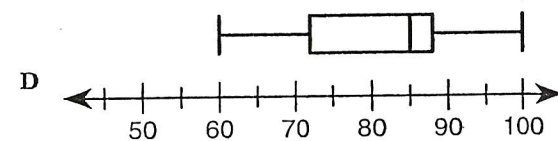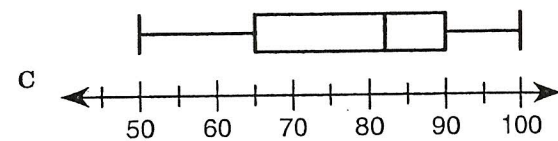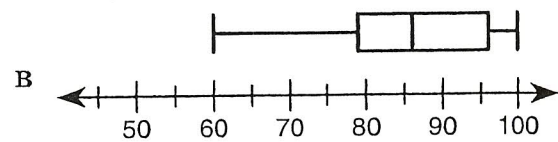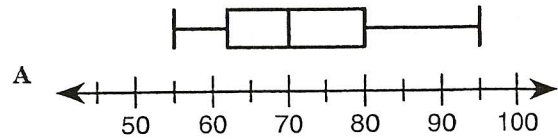
She wants the mean of all 5 of her test scores to be 90. What does Brianna need to score on the 5th test to get exactly a mean of 90?

90
85
80
75

Nicole listed her homework scores from her mathematics class.

100, 97, 95, 80, 88, 84, 96, 60, 78, 83

Which box-and-whisker plot correctly displays the information?

A

B

C

D

Price
(in dollars)

Which measures can be determined using data presented in a box-and-whisker plot?

The mean and the range
The mean and the mode
The median and the mode
The median and the range