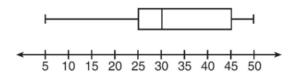
Investigating Box-Plots

Name	Period:	Date:
ivallic	r eriou	Date

Directions: Use the information given to solve each problem.

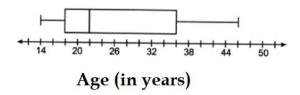
1. A grocery store owner made the boxplot shown below to represent the hourly pay for each of his employees.



Hourly Pay (in \$)

Which can be inferred from the data. Select all that apply.

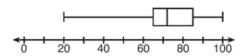
- A. The mean is equal to the median.
- B. The mean is probably less than \$30 per hour.
- C. The mean is probably more than \$30 per hour.
- D. If the owner hired a new employee with a salary of \$80 per hour, the mean must change.
- E. If the owner hired a new employee with a salary of \$80 per hour, the median must change.
- 2. A website owner monitors the age of each person that visits his homepage and made the boxplot shown below.



Which can be inferred from the data. Select **all** that apply.

- A. The mean is greater than the median.
- B. The mean is probably less than 22 years old.
- C. The mean is probably more than 22 years old.
- D. If a 9-year-old person visits the home page, the mean must change.
- E. If a 9-year-old person visits the home page, the median must change.

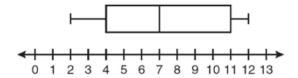
3. A teacher organized the test scores for a recent test and made the boxplot shown below.



Test Scores

Which can be inferred from the data. Select **all** that apply.

- A. The mean is greater than the median.
- B. The mean score is probably less than 72.
- C. The mean score is probably more than 72.
- D. If a new student scored a 0 on the test, the mean must change.
- E. If a new student scored a 0 on the test, the median must change.
- 4. A teacher organized the test scores for a recent test and made the boxplot shown below.



Which can be inferred from the data. Select all that apply.

- A. The interquartile range of the data set is 10.
- B. The median of the data set is 7.
- C. The mean of the data set is about the same as the median because the boxplot is not skewed.
- D. The range of the data set is 10.
- E. About 75 percent of the data set is above 4.

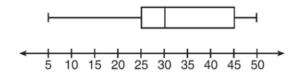
Investigating Box-Plots

Name	Period:	Date:

Answer Key

Directions: Use the information given to solve each problem.

1. A grocery store owner made the boxplot shown below to represent the hourly pay for each of his employees.

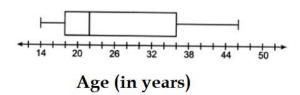


Hourly Pay (in \$)

Which can be inferred from the data. Select **all** that apply.

A. The mean is equal to the median.

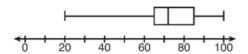
- B, D
- B. The mean is probably less than \$30 per hour.
- C. The mean is probably more than \$30 per hour.
- D. If the owner hired a new employee with a salary of \$80 per hour, the mean must change.
- E. If the owner hired a new employee with a salary of \$80 per hour, the median must change.
- 2. A website owner monitors the age of each person that visits his homepage and made the boxplot shown below.



Which can be inferred from the data. Select **all** that apply.

- A. The mean is greater than the median.
- A, C, D
- B. The mean is probably less than 22 years old.
- C. The mean is probably more than 22 years old.
- D. If a 9-year-old person visits the home page, the mean must change.
- E. If a 9-year-old person visits the home page, the median must change.

3. A teacher organized the test scores for a recent test and made the boxplot shown below.



Test Scores

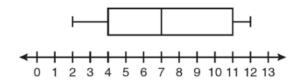
Which can be inferred from the data. Select all that apply.

A. The mean is greater than the median.

B, D

- B. The mean score is probably less than 72.
- C. The mean score is probably more than 72.
- D. If a new student scored a 0 on the test, the mean must change.
- E. If a new student scored a 0 on the test, the median must change.

4. A teacher organized the test scores for a recent test and made the boxplot shown below.



Which can be inferred from the data. Select all that apply.

A. The interquartile range of the data set is 10. B, C, D, E

- B. The median of the data set is 7.
- C. The mean of the data set is about the same as the median because the boxplot is not skewed.
- D. The range of the data set is 10.
- E. About 75 percent of the data set is above 4.