

UNIT 7 TEST PREP

Name _____ Class _____ Date _____

MULTIPLE CHOICE

Members of the school science club collected canned food for a food drive. The numbers of cans collected by 8 club members are shown. Use these data for 1-7.

Cans Collected							
4	10	5	11	15	7	3	9

- What is the mean number of cans collected?

A. 8 C. 10
B. 9 D. 11
- What is the median number of cans collected?

F. 8 H. 10
G. 9 J. 11
- What is the upper quartile?

A. 5 C. 10.5
B. 7 D. 11
- What is the lower quartile?

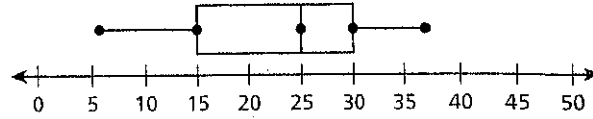
F. 3 H. 5
G. 4.5 J. 6
- Which expression gives the interquartile range?

A. $5 - 4$ C. $13.5 - 5$
B. $10.5 - 4.5$ D. $15 - 3$
- What is the mean average deviation?

F. 3.25 H. 8
G. 6.5 J. 26
- What would be the leftmost and rightmost points on a box plot of these data?

A. 3 and 15 C. 4.5 and 10.5
B. 4 and 9 D. 6.5 and 8

Use the box plot for 8-13.



- What is the median of this data set?

F. 15 H. 30
G. 25 J. 37
- What is the least value of the data set?

A. 5 C. 10
B. 6 D. 11
- What is the lower quartile?

F. 15 H. 30
G. 25 J. 40
- Which is the best estimate of the difference of the greatest and least values?

A. 10 C. 30
B. 20 D. 40
- Which expression gives the interquartile range?

F. $30 - 15$
G. $30 - 10$
H. $30 - 5$
J. $40 - 15$
- Which question can be answered by reading the box plot?

A. What is the mean?
B. Which data value occurs most frequently?
C. How many data values are there?
D. The middle half of the data is between what two numbers?

14. Which of the following statements is **not** true?
- F. The median is a measure of the center of a data set.
 - G. The mean is a measure of the variability of a data set.
 - H. A dot plot shows the least and greatest values of a data set.
 - J. A box plot shows the interquartile range.

FREE RESPONSE

The weights of Ann's chickens are shown. Use these data for 15-24.

Chickens' Weights (lb)											
14	6	5	7	7	5	6	7	6	6	4	5

15. How many chickens does Ann have?

16. What unit is used to measure the chickens' weights?

17. What is the mean weight of the chickens?

18. What is the median weight of the chickens?

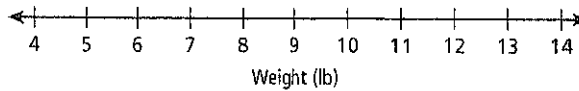
19. Does the mean or the median better describe the center of this data set? Explain.

20. Find the lower quartile and the upper quartile.

21. Find the interquartile range.

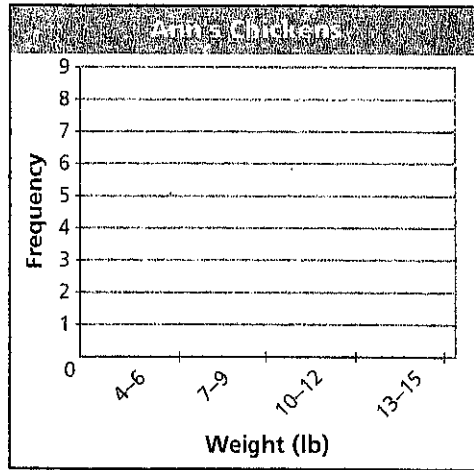
22. a. Make a dot plot for the weights.

Ann's Chickens



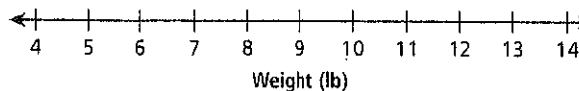
- b. Describe the shape of the data. Identify any gaps, clusters, or peaks. Are there any data values that do not fit the general shape? If so, which one(s)?
- _____
- _____
- _____

23. Make a histogram for the weights.



24. a. Make a box plot for the weights.

Ann's Chickens



- b. How does the box plot describe the data set?
- _____
- _____
- _____
- _____