Test, Form 1A

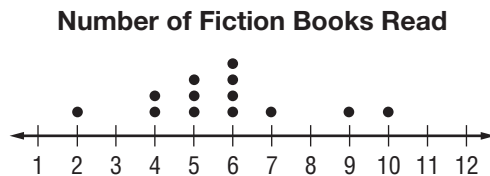**Write the correct letter for the correct answer in the blank at the right of each question.**

For Exercises 1 and 2 use the following set of data: 2, 3, 3, 4, 5, 7, 8, 8, 8, 10, 10, and 12.

1. What are the third and first quartiles of the data?

    A. 12, 2   **B.** 8, 4.5   **C.** 10, 3   **D.** 9, 3.5

    1. ____D____

2. What is the interquartile range of the data?

    F. 10   **H.** 7

    G. 7.5   **I.** 5.5

    2. ____I____

3. The table shows the number of movies owned by a group of surveyed people.

Number of Movies					
11	31	17	22	18	25
25	10	15	12	30	12
29	25	21	32	30	25

    What is the median of movies owned?

    A. 21.5   **C.** 23.5

    B. 22   **D.** 25

    3. ____C____

4. What is the mean absolute deviation of the data: 10, 17, 20, 12, and 16? Round to the nearest whole number.

    F. 15   **H.** 3

    G. 5   **I.** 2

    4. ____H____

For Exercises 5–7, use the dot plot below.

Number of Fiction Books Read

5. What is the mean of the data? Round to the nearest tenth.

    A. 5.7   **B.** 5.2   **C.** 5   **D.** 4.5

    5. ____A____

6. What is the median of the data?

    F. 10   **G.** 9   **H.** 6   **I.** 3

    6. ____H____

7. What is the mode of the data?

    A. 3   **B.** 6   **C.** 8   **D.** 10

    7. ____B____

Test, Form 1A   *(continued)*

For Exercises 8–10, which measure of center best represents each set of data?

8. number of television sets in the home: 4, 4, 2, 4, 4, 1, 3, 4, 2, 4

   F. mean   **G.** median   **H.** mode   **I.** range

                                                8. ____**H**____

9. goals scored during hockey season: 7, 6, 9, 3, 12, 7, 2, 10, 7, 8

   A. mean   **B.** median   **C.** mode   **D.** range

                                                9. ____**A**____

10. prices of earrings: $4, $30, $10, $12, $10, $20, $12, $10

   F. mean   **G.** median   **H.** mode   **I.** range

                                            10. ____**G**____

11. Find the mean absolute deviation of the data set 8, 8, 10, 15, 9, 20, 12, and 10. Round to the nearest hundredth if necessary.

   A. 0.52   **C.** 3.5

   B. 3.13   **D.** 11.5   11. ____**B**____

12. The results of a survey about the number of contacts stored in cell phones is shown in the table.

Number of Contacts					
100	31	45	85	98	29
75	62	78	50	72	84
50	40	83	88	44	94

   What is the first quartile of the data?

   F. 40   **H.** 45

   G. 44.5   **I.** 85   12. ____**H**____

13. Jamie mowed 7 lawns. He earned $10, $15, $12, $15, $8, and $15 for six lawns. How much did he earn the seventh time if the mean of the data is $12?

   A. $9   **C.** $12

   B. $10   **D.** $15   13. ____**A**____