6.SP.B.5 Solve Problems Involving Measures of Central Tendency

6.SP.B.5 Summarize numerical data sets in relation to their context

1. Find the mean of 91, 52, 11, 70, and 11.

   [A] 52   [B] 47   [C] 11   [D] 38

2. Find the mode of 65, 52, 24, 59, and 24.

   [A] 44.8   [B] 24   [C] 52   [D] 45.7

3. Find the mean, median, and mode of the data in the following sample.
   4, 10, 10, 14, 4, 25, 15, 22, 16, 10

   [A] 10, 12, 13   [B] 14.5, 13, 10

   [C] 12, 13, 10   [D] 13, 12, 10

4. For which of the following sets of data is the mode 5?

   [A] 3, 6, 5, 8, 1, 5, 9, 5

   [B] 2, 4, 1, 5, 7, 5, 2, 2

   [C] 5, 0, 1, 2, 1, 4, 1, 0

   [D] 8, 4, 8, 8, 3, 5, 5, 1

5. For which of the following sets of data is the mode 3?

   [A] 5, 7, 3, 8, 4, 3, 5, 6, 1, 3, 6

   [B] 0, 1, 1, 2, 2, 3, 6, 8, 8, 9, 9

   [C] 3, 12, 8, 5, 1, 4, 11, 13, 11, 2

   [D] 6, 2, 7, 6, 6, 6, 3, 1, 3, 9, 3

6. For which of the following sets of data is the mean 8.1?

   [A] 8.5, 8.0, 8.0, 9.0, 7.0

   [B] 6.6, 7.5, 8.1, 9.2, 9.8

   [C] 8.1, 8.1, 8.7, 8.8, 9.9

   [D] 4.2, 6.7, 8.1, 5.5, 9.1

7. Find the mean of 86, 35, 27, 75, and 27.

8. Find the mode of 99, 96, 95, 98, and 95.

9. Find the mean, median and mode for this set of data.
   3.6, 3.7, 3.5, 4.1, 3.7, 3.9, 4.2, 3.7, 3.9, 3.4

10. The median of a set of data is 15. If there are 10 data items in the set, which of the following statements best describes the two middle numbers?

    [A] One of the numbers must be 15.

    [B] The numbers must be 13 and 17.

    [C] Both numbers must be 15.

    [D] Their mean must be 15.

    [E] The numbers must be 14 and 16.

11. Compare the quantity in Column A with the quantity in Column B.
    4.6, 3.1, 5.8, 2.9, 3.4, 4.2, 3.7, 3.8, 4.1, 3.5

Column A	Column B
mean	median

    [A] The quantity in Column A is greater.

    [B] The quantity in Column B is greater.

    [C] The two quantities are equal.

    [D] The relationship cannot be determined on the basis of the information supplied.

6.SP.B.5 Summarize numerical data sets in relation to their context

[1] B

[2] B

[3] D

[4] A

[5] A

[6] A

[7] 50

[8] 95

[9] mean: 3.77, median: 3.7, mode: 3.7

[10] D

[11] A