tutorified

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

1 The weights of all the students in grade 9 are arranged from least to greatest. Which statistical measure separates the top half of this set of data from the bottom half?
1) mean
2) mode
3) median
4) average

2 Which statement is true about the data set 3, 4, 5, 6, 7, 7, 10?
1) mean = mode
2) mean > mode
3) mean = median
4) mean < median

3 Sam's grades on eleven chemistry tests were 90, 85, 76, 63, 94, 89, 81, 76, 78, 69, and 97. Which statement is true about the measures of central tendency?
1) mean > mode
2) mean < median
3) mode > median
4) median = mean

4 Which statement is true about the data set 4, 5, 6, 6, 7, 9, 12?
1) mean = mode
2) mode = median
3) mean < median
4) mode > mean

5 From January 3 to January 7, Buffalo recorded the following daily high temperatures: 5°, 7°, 6°, 5°, and 7°. Which statement about the temperatures is true?
1) mean = median
2) mean = mode
3) median = mode
4) mean < median

6 The ages of five children in a family are 3, 3, 5, 8, and 18. Which statement is true for this group of data?
1) mode > mean
2) mean > median
3) median = mode
4) median > mean

7 Melissa's test scores are 75, 83, and 75. Which statement is true about this set of data?
1) mean < mode
2) mode < median
3) mode = median
4) mean = median

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8   The accompanying graph shows the high
    temperatures in Elmira, New York, for a 5-day
    period in January.
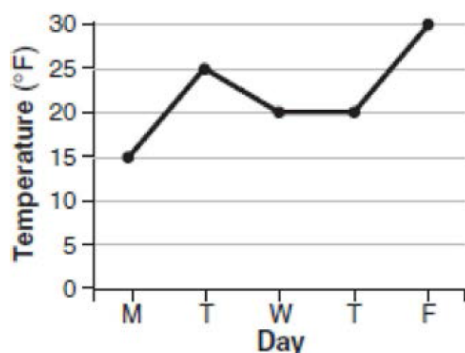
    Which statement describes the data?
    1)   median = mode
    2)   median = mean
    3)   mean < mode
    4)   mean = mode

9   Alex earned scores of 60, 74, 82, 87, 87, and 94 on
    his first six algebra tests. What is the relationship
    between the measures of central tendency of these
    scores?
    1)   median < mode < mean
    2)   mean < mode < median
    3)   mode < median < mean
    4)   mean < median < mode

10 Kelsey scored the following points in her first six
    basketball games: 22, 14, 19, 22, 8, and 17. What
    is the relationship between the measures of central
    tendency of these data?
    1)   mode > median > mean
    2)   median > mode > mean
    3)   mean > median > mode
    4)   mode > mean > median

11 The test scores for five students were 59, 60, 63,
    76, and 87. How many points greater than the
    median is the mean?

1 ANS: 3
2 ANS: 3
    mean = 6, median = 6 and mode = 7

3 ANS: 1
    mean = $81\frac{7}{11}$, median = 81 and mode = 76

4 ANS: 2
    mean = 7, median = 6 and mode = 6

5 ANS: 1
    mean = 6, median = 6 and mode = 5, 7.

6 ANS: 2
    mean = 7.4, median = 5 and mode = 3

7 ANS: 3
    mean = 77.7, median = 75 and mode = 75

8 ANS: 1
9 ANS: 4
    The mean is $80.\overline{6}$, the median is 84.5 and the mode is 87.

10 ANS: 1
    The mean is 17, the median is 18 and the mode is 22.

11 ANS:
    6