Name: _____

# 6.SP.B.5: Central Tendency and Dispersion 3

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

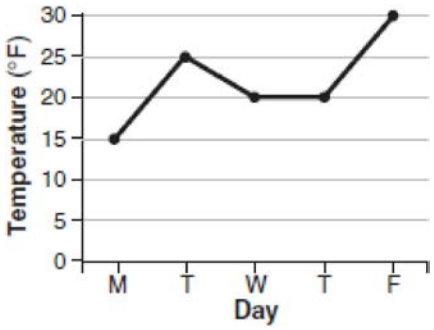
5 From January 3 to January 7, Buffalo recorded the following daily high temperatures: 5°, 7°, 6°, 5°, and 7°. Which statement about the temperatures is true?
1) mean = median
2) mean = mode
3) median = mode
4) mean < median

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

Name: _____

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?

## 6.SP.B.5: Central Tendency and Dispersion 3
## Answer Section

1 ANS: 3 REF: 080501a

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

REF: 080804ia

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

REF: 011118ia

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

REF: 011329ia

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

REF: 010118a

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

REF: 010315a

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

REF: 010618a

8 ANS: 1 REF: 080608a

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

REF: 010907ia

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

REF: 081421ia

11 ANS:
6

REF: 089005siii