Exercise - Mean, Median, Mode, and Range

1

Test Scores	67	75	87	91
Number of Students	1	3	2	2

The test scores of 8 students are shown in the table above. Let m be the mean of the scores and M be the median of the score. What is the value of $M - m$?

A) -6

B) 0

C) 3

D) 6

2

The average (arithmetic mean) of five numbers n, $n-3$, $2n+1$, $3n-4$, and $5n+10$ is 8. Which of the following is true?

A) median $= 5$, range $= 18$

B) median $= 5$, range $= 25$

C) median $= 7$, range $= 18$

D) median $= 7$, range $= 25$

3

The average (arithmetic mean) of two numbers is $\frac{1}{2}x+1$. If one of the numbers is x, what is the other number?

A) $x+2$

B) $x-2$

C) -2

D) 2

4

The average (arithmetic mean) of a set of n numbers is 19. If the average of the 6 greatest numbers in the set is 29 and the average of the remaining numbers is 7, what is the value of n?

A) 9

B) 10

C) 11

D) 12

5

The average (arithmetic mean) of m, n, and -1 is 0. What is the value of $m+n$?

6

The average (arithmetic mean) test score for all the students in a class is 84. The average score of m boys in the class was 79, while that of n girls was 87. What is the ratio of m to n?

7

A student has an average (arithmetic mean) score of 86 points for 4 tests. What total score does this student need in the next two tests in order to have an average of 90 for all 6 tests?