# PEP Grade 8 Math — Unit 20: Data Analysis • Unit Test (Basic)

PEP · Grade 8 · Term 2 · Mathematics · Unit Test · Basic

AI-generated practice paper · original study aid, not an official examination paper · 40 questions · 100 points

Name: _____ Date: _____ Score: _____

Answer all questions. This paper is worth 100 points. Show your working where appropriate.

## I. Multiple Choice

1. Which of the following best describes the purpose of calculating the mean in a data set?
   A. To find the most frequent value
   B. To determine the middle value when ordered
   C. To find the average value of all data points
   D. To identify the range of the data

2. In a class of 15 students, the test scores are: 78, 82, 85, 85, 88, 90, 90, 90, 92, 93, 94, 95, 96, 97, 98. What is the mode?
   A. 85 B. 90
   C. 92 D. 95

3. What is the median of the data set: 12, 15, 18, 20, 22, 25, 28?
   A. 18 B. 20
   C. 22 D. 25

4. If a data set has no repeating values, what can be said about its mode?
   A. It is zero B. It is the same as the mean
   C. It does not exist D. It is equal to the median

5. The range of a data set is found by:
   A. Adding the highest and lowest values
   B. Multiplying the largest and smallest values
   C. Subtracting the smallest from the largest value
   D. Dividing the sum by the count of values

6. In a survey of 10 families, the number of children per family is: 1, 2, 2, 3, 3, 3, 4, 4, 5, 6. What is the mean number of children?
   A. 3 B. 3.1
   C. 3.2 D. 3.5

7. A data set has a mean of 25 and a range of 18. If the lowest value is 15, what is the highest value?
   A. 30 B. 33
   C. 35 D. 37

8. Which of the following is NOT a measure of central tendency?
   A. Mean B. Median
   C. Mode D. Range