PEP Grade 7 Math — Unit 6: Collecting, Organizing and Describing Data · Unit Test (Basic)

PEP · Grade 7 · 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 is the best method to collect data on students' favourite fruit in a school?
   A. Ask only the teachers
   B. Survey every student in the school
   C. Choose five students from each class at random
   D. Guess based on personal preference

2. What is the main purpose of organizing data into a frequency table?
   A. To make the data look more complicated
   B. To show the total number of people surveyed
   C. To display how often each value occurs
   D. To replace the original data completely

3. In a survey about weekend activities, 15 students said they play football, 10 said they read books, and 5 said they watch TV. What is the total number of students surveyed?
   A. 20 B. 25
   C. 30 D. 35

4. Which type of chart is most suitable for showing the percentage of students who prefer different subjects?
   A. Bar chart B. Line graph
   C. Pie chart D. Scatter plot

5. If a frequency table has a category with a frequency of 8 and a total of 40 observations, what is the relative frequency?
   A. 0.1 B. 0.2
   C. 0.3 D. 0.4

6. Which of the following is NOT a valid way to represent data visually?
   A. Histogram B. Pictogram
   C. Number line D. Stem-and-leaf plot

7. A class recorded the number of books each student read over summer. The data set is: 3, 5, 2, 5, 4, 5. What is the mode?
   A. 2 B. 3
   C. 4 D. 5

8. When collecting data, why is it important to avoid leading questions?