WONDERLEARNERZ PRIMARY ACADEMY â€¢ PRACTICE & ASSESSMENT WORKSHEET

Data Handling and Pictographs: Worksheet 5

Grade 5 | Mathematics | Ch 19: Data Handling and Pictographs | Total Marks: 19 | Time: 45 Minutes

Student Name: _____ **Roll / ID No:** _____

Grade / Section: _____ **Date:** _____ **Score:** _____ / 19

Instructions: Section A (Q1-Q4): Choose the correct option (A, B, C, or D). Section B (Q5-Q9): Write your exact one-word or numerical answer. Section C & D (Q10-Q15): Write your detailed answers, corrections, and show all working steps neatly in the space provided.

Q1. In a school pictograph, each symbol of an open book represents 8 library books read. If Grade 5 has 6 book symbols, how many books were read? [1 Mark]

( ) A. 48 books
( ) B. 40 books
( ) C. 54 books
( ) D. 14 books

Q2. What is the mode of the following data set: 14, 18, 14, 22, 19, 14, 25? [1 Mark]

( ) A. 14
( ) B. 18
( ) C. 19
( ) D. 25

Q3. Find the range of this data set: 12, 28, 15, 39, 21. [1 Mark]

( ) A. 27
( ) B. 28
( ) C. 39
( ) D. 12

Q4. What is the average (mean) of the numbers 10, 20, 30, and 40? [1 Mark]

( ) A. 25
( ) B. 20
( ) C. 30
( ) D. 100

Q5. At the Central Botanical Gardens, an environmental tally counts bird species over a weekend: Sparrows (24), Robins (16), Pigeons (30), and Blue jays (10). What is the total number of birds recorded? [1 Mark]

Q6. In a bar graph showing favorite sports among 120 fifth-graders: Soccer has 45 votes, Basketball has 35, Swimming has 25, and Tennis has the rest. How many students voted for Tennis? [1 Mark]

Q7. A test score record lists 5 quiz scores: 85, 90, 75, 95, 80. Calculate the student's mean quiz score. [1 Mark]

Q8. Pictograph Key: 1 star = 12 awards. Grade 5 won 60 awards. How many star symbols should be drawn? **[1 Mark]**

Q9. Find the missing value: The mean of 12, 15, 18, and [?] is 15. **[1 Mark]**

Q10. A student looks at a pictograph where 1 symbol = 10 apples and sees 4.5 symbols. The student writes '45 apples'. A classmate argues 'You can't have half a symbol.' Who is correct? **[1 Mark]**

Q11. When finding the range of 5, 8, 12, 20, a student calculates 20 - 8 = 12. What was the student's mistake? **[1 Mark]**

Q12. Why is a bar chart generally easier to read accurately than a pictograph when data values are not multiples of the key? **[2 Marks]**

Q13. Explain why the mean might be misleading if a data set contains one extreme outlier (such as salaries of $30k, $32k, $35k, and $1,000k). **[2 Marks]**

Q14. A student scored 78, 82, and 88 on the first three science tests. What score must the student achieve on the fourth test to obtain an overall mean average of 85? **[2 Marks]**

Q15. In a survey of 50 students: 30 play soccer, 25 play basketball, and 12 play both sports. How many students play neither sport? **[2 Marks]**