Statistics topic test

Name: _____ Date: _____

12 questions | 24 marks | 35 minutes

Classify data, read comparative tables, describe distributions and evaluate a claim.

No calculator needed.

1. Is favourite school subject categorical or numerical data? [1 mark]

2. Is a person's height a count or a continuous measurement? [1 mark]

3. Find the mode of 2, 4, 4, 7, 9. [1 mark]

4. Find the range of 2, 4, 4, 7, 9. [1 mark]

5. Using the table, how many students are recorded in Class C? [2 marks]

Practice data: books completed in a week

Books	Class C frequency	Class D frequency
0	1	0
1	5	2
2	3	4
3	1	4

6. Using the table, find all modes of the Class D book counts. [2 marks]

Practice data: books completed in a week

Books	Class C frequency	Class D frequency
0	1	0
1	5	2
2	3	4
3	1	4

7. How many students in Class C and Class D together completed exactly two books? [2 marks]

Practice data: books completed in a week

Books	Class C frequency	Class D frequency
0	1	0
1	5	2
2	3	4
3	1	4

8. Compare the ranges of the two classes in the table. [3 marks]

Practice data: books completed in a week

Books	Class C frequency	Class D frequency
0	1	0
1	5	2
2	3	4
3	1	4

9. An article says all surveyed students chose soccer. The data is soccer 18, netball 7, other 5. Explain the error. [2 marks]

10. A graph uses an axis from 40 to 50 to compare counts 45 and 48. State the numerical difference and one caution. [2 marks]

11. Suggest a fair way to investigate which of two class groups uses more library books. Give a question and one consistent collection rule. [3 marks]

12. Five friends report cycling times 8, 8, 9, 10, 30 minutes. Describe the data and state one limit on a conclusion. [4 marks]