Practice worksheet | Counting and introductory statistics

Comparing distributions

Name: _____ Date: _____

6 questions | 15 marks

1. Group A has median 18 and IQR 6. Group B has median 22 and IQR 4. Compare both features. [2 marks]

2. Two groups have equal means but standard deviations 2 and 7. What differs? [2 marks]

3. Why is a common horizontal scale essential for two box plots? [2 marks]

4. Compare 1,2,2,3,12 with 4,4,5,5,6 using medians. Mention a reason not to rely only on means. [3 marks]

5. A study samples 12 volunteers in A and 100 randomly selected people in B. Give two cautions about comparing the results. [3 marks]

6. Class A's score range is 40 and Class B's is 25. A student says every A score is more variable than every B score. Explain the error. [3 marks]