Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Commenting on boxplots and Cumulative Frequency Final Push**

**Learning objective:** To be able to compare the spread and median of two distributions

1. A company records how long its customers wait on hold when they call its customer service

department. This box plot shows the results for a Tuesday morning.



This table shows the company’s results for a Saturday morning.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Minimum** | **Lower quartile** | **Median** | **Upper quartile** | **Maximum** |
| 20 | 35 | 40 | 80 | 120 |

**Compare the lengths of time customers spent on hold on Tuesday and on Saturday.**

1. …………………………………………………………………………………………………………………………..

Compare the **medians** and use words like ‘longer’ and ‘shorter’.

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Compare the **interquartile ranges** and use words like ‘more consistent’ and ‘less consistent’.

2. …………………………………………………………………………………………………………………………..

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1. The box plots show information about the mass, in grams, of oranges picked at two different farms.



**Compare the masses of the oranges picked at the two farms.**

1. …………………………………………………………………………………………………………………………..

Compare the **medians** and use words like ‘bigger mass’ and ‘less mass’.

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Compare the **ranges** and use words like ‘more consistent’ and ‘less consistent’.

Note: you could calculate the interquartile ranges but they happen to be equal to each other in this question.

2. …………………………………………………………………………………………………………………………..

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**Write a reminder to yourself about the two things you need to include.**

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