

3.5) Comparing data

Worked example

From the large data set, the daily mean temperature during June 1987 is recorded at Camborne and Leuchars. For Camborne, $\sum x = 377.1$ and $\sum x^2 = 4939.45$. For Leuchars, the mean temperature was $10.9\text{ }^{\circ}\text{C}$ with a standard deviation of $2.10\text{ }^{\circ}\text{C}$. Compare the data for the two locations.

Your turn

From the large data set, the daily mean temperature during August 2015 is recorded at Heathrow and Leeming. For Heathrow, $\sum x = 562.0$ and $\sum x^2 = 10301.2$. For Leeming, the mean temperature was $15.6\text{ }^{\circ}\text{C}$ with a standard deviation of $2.01\text{ }^{\circ}\text{C}$. Compare the data for the two locations.

Mean daily temperature in Heathrow = $18.1\text{ }^{\circ}\text{C}$

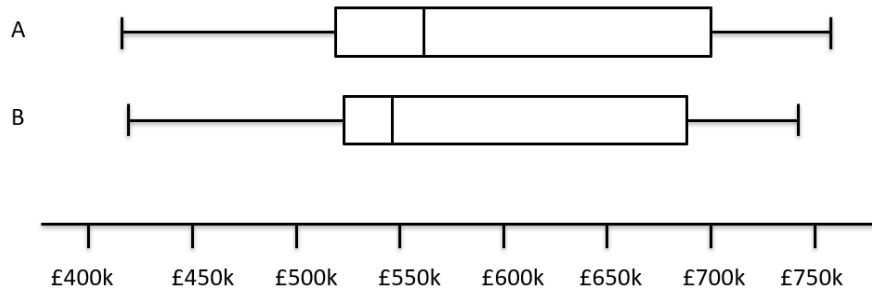
Standard deviation in Heathrow = $1.91\text{ }^{\circ}\text{C}$ (3 sf)

The mean daily temperature in Leeming is lower than in Heathrow.

The spread of temperatures is greater in Leeming than in Heathrow.

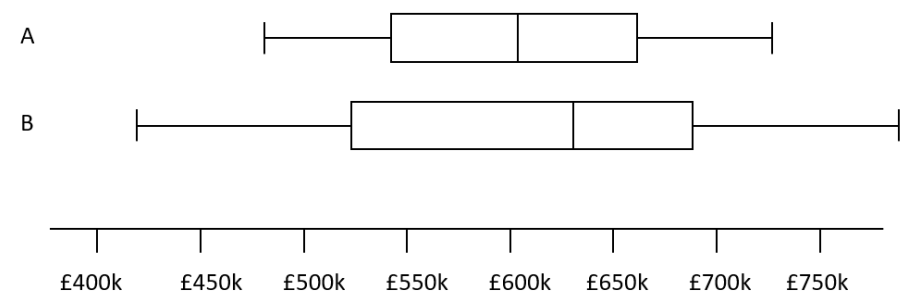
Worked example

Compare the house prices of locations A and B



Your turn

Compare the house prices of locations A and B



- The interquartile range of house prices in B is greater than A.
- The range of house prices in B is greater than A.
- The median house price in Kingston was greater than that in Croydon