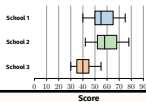


Push Tasks

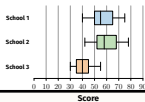


Use the rule across three schools to find which pair shows real evidence of a difference.

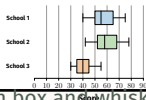
1. Compare School 3's median to School 1's IQR. Evidence of a real difference?



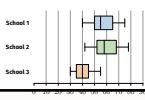
2. Compare School 2's median to School 1's IQR. Evidence of a real difference?



3. Based on Q1/Q2, which pair shows the LEAST evidence of a real difference?



4. School 2's median is higher. Why is calling it "definitely better" too strong a claim?

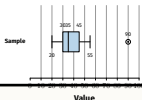


Push Tasks

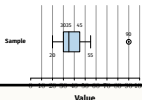


Examine how an outlier affects (or doesn't affect) the five-number summary.

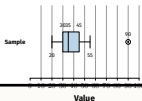
5. Does the outlier affect the median or the IQR here? Explain why or why not.



6. Why is the median more reliable than the mean when an outlier like this is present?



7. If the outlier were removed, would the five-number summary change? Justify.



8. Compare this sample's IQR to School 3's (median 40, IQR 10). Which is more consistent? Justify using both the IQR and the outlier.