

Push Tasks



Quantify how much an outlier shifts the mean, and why it barely shifts the median.

- 1.** Calculate the mean and median of all 6 scores shown.



- 2.** The lowest score is removed. Recalculate the mean. By how much does it change?



- 3.** Explain why the range changes far more than the median when the outlier is removed.



- 4.** A teacher says “the average was 55.” Which measure could this be, and why is “average” ambiguous?



Push Tasks



Work backwards from a mean across two steps, then compare the range before and after.

5. These 4 scores plus one more give a mean of 150. Find the missing 5th score.



6. What is the new median once the 5th score (from Q5) is included?



7. Compare the range before and after including the 5th score from Q5.



8. Explain why finding a missing value from a mean needs the total, not just the known values.