Watch Your Calculations

Let's calculate mean, median, mean absolute deviation (MAD), and interquartile range.

5.1 Math Talk: Find the Mean

Find the mean of each data set mentally.

- 40, 40, 40, 44
- 40, 40, 40, 36
- 40, 40, 40, 100
- 40, 40, 40, 0

CC BY NC 2024 Illustrative Mathematics®

5.2 Watch Your Steps



The high school principal wants to know which tenth-grade students can be enrolled in an advanced literature course on the basis of their current reading scores. The reading scores are on a scale of 0–800, and a score of 490 is considered qualified for the advanced literature course. Here are the students' scores:

500	525	520	525	525	500	500	520	520	500	230	270	200	300
300	300	315	345	345	400	400	400	450	450	470	515	550	550
550	600	600	625	625	700	720	720	800	600	200			

5.3 Row Game: Calculations

Work independently on your column. Partner A completes the questions in column A only and partner B completes the questions in column B only. Your answers in each row should match. Work on one row at a time, and check if your answer matches your partner's before moving on. If you don't get the same answer, work together to find any mistakes.

row	column A	column B
1	Calculate the mean. 1, 1, 1, 2, 100	Calculate the mean. 20, 20, 20, 20, 25
2	Find the median. 9, 4, 10, 1, 6	Find the median. 6, 11, 12, 2, 4
3	Calculate the IQR. 13, 20, 12, 14, 19, 18, 11, 15, 16	Calculate the IQR. 2, 5, 8, 9, 1, 3, 10, 4, 6
4	Calculate the MAD. 1.75, 2.20, 2.50, 2.55, 2.75, 2.80, 3.00, 4.45	Calculate the MAD. 2.75, 3.20, 3.50, 3.55, 3.75, 3.80, 4.00, 5.45