
CSET MULTIPLE SUBJECTS: SUBTEST 2 – MATH QUESTIONS AND ANSWERS WITH SOLUTIONS 2024

Measures of central tendency - ANSWER Mean/arithmetic mean, median, mode, range

Mean - ANSWER The sum of the data values divided by the number of data values; average

$$\begin{aligned} \text{Example: } & 2, 2, 3, 5, 2, 6, 2, 6, 7, 9, 11 \\ & (2 + 2 + 3 + 5 + 2 + 6 + 2 + 6 + 7 + 9 + 11) / 11 \\ & 55 / 11 \\ & \text{Mean} = 5 \end{aligned}$$

Median - ANSWER -The value in the middle so that there are an equal number of data values to either side of it

-To find the median, arrange the data values from smallest to largest, including any repeats, then find the middle value

-If there is an odd number of data values, one of the data values will be in the middle

-If there is an even number of data values, take the mean of the two middle values

$$\begin{aligned} \text{Example: } & 2, 2, 3, 5, 2, 6, 2, 6, 7, 9, 11 \\ & 2, 2, 2, 2, 3, 5, 6, 6, 7, 9, 11 \\ & \text{Median} = 5 \end{aligned}$$

Mode - ANSWER -The value repeated most often

-In order to have a mode, some score had to be repeated

$$\begin{aligned} \text{Example: } & 2, 2, 3, 5, 2, 6, 2, 6, 7, 9, 11 \\ & \text{Mode} = 2 \end{aligned}$$

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