Pi Mu Epsilon Problem of the Month
April 2020

Consider a data set of 10 numbers. Each of the numbers has one of four values: -2, 0, 1, or 6. Suppose that the average of the numbers in the data set is 2, the median of the numbers in the data set is 1, and the mode of the numbers in the data set is 6. Determine all possible data sets that fulfill the description above.

Problem of the Month Rules:
⌘ Submissions must include a complete mathematical justification along with the answer.
⌘ Submissions may only be made by individuals or groups of two and must be dated.
⌘ Due date: April 27, 2020 before 5 p.m. to Dr. Phillip Poplin or Dr. David Shoenthal.