

*A.S.16 Recognize how linear transformations of one-variable data affect the data's mean, median, mode, and range*

In 2001 the city of Bedford Falls recorded the following number of sunny days in nine consecutive months:

5, 8, 15, 14, 11, 14, 8, 12, 8.

Find the mean, median, mode and range for this set of data.

In 2002 a weather forecaster for Bedford Falls predicted that the number of sunny days would double for each month from the previous year. What would be the mean, median, mode and range for the 2002 data set, based on the weather forecaster's prediction? Based on this prediction, how would these four measures change from 2001 to 2002?

Another weather forecaster predicted that 2002 would result in five more sunny days per month than in 2001. What would be the mean, median, mode and range for the 2002 data set, based on the forecaster's prediction? Based on this prediction, how would these four measures change from 2001 to 2002?