

SP Statistics and Probability

- **6.SP.A Develop understanding of statistical variability.**
 - **6.SP.A.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.**
 - [Identify statistical questions \(6-HH.1\)](#)
 - **6.SP.A.2 Understand that a set of data collected to answer a statistical question has a distribution, which can be described by its center (median, mean, and/or mode), spread (range, interquartile range), and overall shape.**
 - [Create line plots \(6-GG.4\)](#)
 - [Interpret stem-and-leaf plots \(6-GG.21\)](#)
 - [Create stem-and-leaf plots \(6-GG.22\)](#)
 - [Box plots \(6-GG.23\)](#)
 - [Calculate quartiles and interquartile range \(6-HH.7\)](#)
 - [Describe distributions in line plots \(6-HH.10\)](#)
 - **6.SP.A.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.**
 - [Mean, median, mode, and range: find the missing number \(6-HH.4\)](#)
- **6.SP.B Summarize and describe distributions.**
 - **6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots.**
 - [Create line plots \(6-GG.4\)](#)
 - [Create histograms \(6-GG.15\)](#)
 - [Box plots \(6-GG.23\)](#)
 - **6.SP.B.4.a Read and interpret circle graphs.**
 - [Interpret circle graphs \(6-GG.16\)](#)
 - **6.SP.B.5 Summarize numerical data sets in relation to their context, such as by:**
 - **6.SP.B.5.a Reporting the number of observations.**
 - [Interpret line plots \(6-GG.3\)](#)
 - [Interpret histograms \(6-GG.14\)](#)
 - **6.SP.B.5.b Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.**
 - [Identify representative, random, and biased samples \(6-HH.11\)](#)
 - **6.SP.B.5.c Giving quantitative measures of center (median, and/or mean) and variability (range and/or interquartile range), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.**
 - [Calculate mean, median, mode, and range \(6-HH.2\)](#)
 - [Interpret charts and graphs to find mean, median, mode, and range \(6-HH.3\)](#)
 - [Calculate mean absolute deviation \(6-HH.6\)](#)
 - [Calculate quartiles and interquartile range \(6-HH.7\)](#)
 - [Identify an outlier and describe the effect of removing it \(6-HH.9\)](#)
 - [Describe distributions in line plots \(6-HH.10\)](#)