

Unit 6: Data Analysis

Our Learning Goals:

We will...

- ✓ identify and write statistical questions.
- ✓ identify categorical and numerical variables.
- ✓ construct dot plots.
- ✓ determine measures of center and variability.
- ✓ represent data with graphs.
- ✓ analyze shapes of distributions.
- ✓ make connections between math concepts and how to apply those concepts in real-world examples.
- ✓ use critical thinking skills and reading and writing learning strategies to gather and organize data to explore and extend

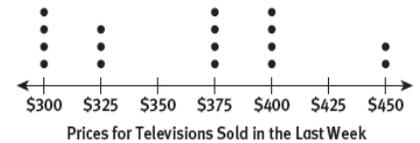
Why do we study this?

Students and adults are bombarded with statistics and data daily through a variety of media. Graphs of all types are used to make data easier to interpret. Throughout this unit, students will be given opportunities to explore, display, and analyze data to begin making connections to examples in their environment. We will be using the graphical representations to describe the center, spread, and shape of the data. PreAP students will be comparing the center, spread, and shape of multiple sets of data.

How we will show what we have learned...

Students will be given multiple opportunities to develop mastery of these concepts culminating in a district-wide common assessment that will consist of multiple choice questions.

Sample Problem:



The store manager promised to sell a TV for the typical price. To get the best deal, is mean or median the best measure of central tendency? Explain your reasoning.

Additional Support:

- Check teacher web and Canvas pages for additional resources and practice.
- We recommend [Khan Academy](#) and [Virtual Nerd](#) as reliable video resources.
- A “Growth Mindset” is needed for positive development in a child. Go to www.youcubed.org to find resources for building a growth mindset in your own student.
- Have your child attend tutorials at school. There are multiple options available