

Enduring Understanding

Graphical representations and statistical measures influence interpretations and predictions about data.

Essential Question

How can the results of a statistical investigation be used to support an argument?

Indicators

- 4.IM.1.1 design, conduct, analyze, and communicate the results of a statistical experiment. (4.8.1.1)
- 4.IM.5.1 evaluate arguments that are based on data analysis for accuracy and validity. (4.8.5.1)
- 4.IM.3.1 analyze and interpret distribution of data by using statistical measures and displays.
(4.8.2.1, 4.8.3.1, 4.8.4.1)

Enduring Understandings

Relationships can be represented using set theory.

Real numbers are either rational or irrational.

Essential Questions

How does set theory help to identify relationships and solve problems?

What kinds of numbers make up the set of real numbers?

Indicators

- 6.IM.1.1 represent sets and set operations using rosters, number lines, and Venn diagrams.
- 6.IM.6.1 identify and describe subsets, complements, unions, and intersections of sets.
- 6.IM.1.2 solve problems using rosters, number lines, and Venn diagrams.
- 6.IM.6.2 categorize (classify) numbers according to the real number systems subsets.