

Math 9

Statistics and Probability



I Can Statements:

1. **Data Collection** – Describe the effect of each of the following on the collection of data.
 - bias
 - use of language
 - ethics
 - cost
 - time and timing
 - privacy
 - cultural sensitivity
 - ☐ I can describe the effect of various factors on data collection using examples and appropriate mathematical vocabulary.
2. **Samples** – Select and defend the choice of using either a population or a sample of a population to answer a question.
 - ☐ I can determine when using a population or a sample is more appropriate and defend the choice.
3. **Data Collection, Display, and Analysis** – Develop and implement a project plan for the collection, display, and analysis of data by:
 - ☐ I can formulate a question for investigation.
 - ☐ I can choose a data collection method that includes social considerations.
 - ☐ I can select a population or a sample.
 - ☐ I can collect data.
 - ☐ I can display collected data in an appropriate manner.
 - ☐ I can draw conclusions to answer questions.
4. **Probability** – Demonstrate an understanding of the role of probability in society.
 - ☐ I can identify situations where probability is used in society.
 - ☐ I can explain how decisions are made using theoretical and experimental probabilities.

VOCABULARY

Grade 7

Central Tendency
Mean
Median
Mode
Range
Data
Outlier
Compass
Protractor
Proportion
Degrees
Circle Graph
Angle
Circle

Portion
Legend
Probability
Ratio
Manipulate
Chance
Likelihood
Event
Sample Space
Independent Events
Dependent Events
Theoretical Probability
Experimental Probability
Experiment

Grade 8

Interval
Misinterpret
Misrepresent

Grade 9

Population
Sample
Bias
Gender
Ethics
Cultural Sensitivity
Assumptions
Limitations