

# Sets, Probability, Statistics I Activity Objectives

Activity Title	Mathematical Objectives
Fruit Snacks: Using Mean, Median, and Mode (p. 6)	Calculate the mean, median, and mode of a data set Interpret the practical meaning of mean, median, and mode
Fruit Snacks: Using Probability (p. 10)	Determine the probability of an event
Kinds of Candy Bars: Working with Sets (p. 14)	Create a Venn diagram to represent a data set Find the intersection and union of a group of sets Find the complement of a set
Menu Choices: Working with Combinations (p. 18)	Use combinations to count different outcomes
Phone Numbers: Using Principles of Counting (p. 22)	Use combinations and permutations to count possible outcomes Calculate percentages
Picking Plates - Canada: Using Principles of Counting (p. 26)	Use permutations to count possible outcomes Use principles of counting
Picking Plates - United States: Using Permutations (p. 30)	Use permutations to count possible outcomes Use principles of counting
Playing Pig: Using Expected Value (p. 34)	Calculate expected value Use numerical results to determine a game strategy
Playing Soccer: Using Combinations and Probability (p. 38)	Use combinations to count different outcomes Calculate theoretical probabilities
Rolling the Dice: Using Probability (p. 42)	Calculate the probability of an event Calculate conditional probabilities Use probabilities to develop game strategy