Math ISAT: Data Analysis, Probability, Statistics

Skills: Basic Concepts of Probability

Students:

RIT Above 260:
- Determines the probabilities of compound events (dependent)

Students:

RIT 251-260:
- Determines certainty from a set data
- Determines the probabilities of complex compound events (independent)

Students:

RIT 241-250:
- Determines probability using tables
- Determines probability using an area model
- Determines probability using counting procedures
- Determines certainty from a set data
- Uses counting procedures to determine probabilities
- Determines the complement of a complex event
- Uses permutation and combination formulas to determine possibilities

Students:

RIT 231-240:
- Recognizes the relationship between events and probability
- Determines sample space using probability
- Determines sample space to find probability
- Determines sample space to find probability for 2-step problems
- Determines certainty from a set data
- Determines the complement of a complex event
- Determines the probability of independent simple compound events

Students:

RIT 221-230:
- Determines the possible outcomes for a simple probability experiment using spinners
- Determines the possible outcomes for a simple probability experiment using dart boards
- Determines the outcome of simple multiple events
- Determines sample space to find probability
- Determines probability using tree diagrams
- Computes probability as a fraction, given equivalent forms
- Explains the relationship between probability and odds, and computes one when given the other
- Determines the complement of a simple event
- Determines the number of possible combinations of given items
- Solves problems involving combinations

Students:

RIT 211-220:
- Determines the possible outcomes for a simple probability experiment using a frequency table
- Determines the possible outcomes for a simple probability experiment using dice
- Determines the possible outcomes for a simple probability experiment using spinners
- Determines probability when drawing objects from containers
- Determines probability from a real-world situation
- Determines the complement of a simple event
- Determines the number of possible combinations of given items
- Solves problems involving permutations

Students:

RIT 201-210:
- Recognizes events that are certain, likely, unlikely, possible, or impossible
- Uses the concept of chance to determine the likelihood of an event
- Determines the possible outcomes for a simple probability experiment using one or more coins
- Determines the possible outcomes for a simple probability experiment using objects

Students:

RIT 191-200:
- Investigates probability of "more likely" or "less likely" using a spinner
- Investigates probability of "more likely" or "less likely" with a dart board

Students:

RIT 181-190:
- Investigates probability of "more likely" or "less likely" using a spinner
- Investigates probability of "more likely" or "less likely" with objects hidden in containers

Students:

RIT 171-180:
- Investigates probability of "more likely" or "less likely" using a table

Students:

RIT Below 171:
- *No Skills Listed*