

Skills and Concepts to Enhance (73% Probability*) 211 - 220	Skills and Concepts to Develop (50% Probability*) 221 - 230	Skills and Concepts to Introduce (27% Probability*) 231 - 240
<p>Interpreting Categorical and Quantitative Data</p> <ul style="list-style-type: none"> Solves problems using pictographs Solves problems using bar graphs Reads and interprets data in scatter plots Reads and interprets data in line plots Determines the average (mean) of a simple set of data Solves simple problems involving mean Determines the middle value (median) from a simple set of data Predicts from plotted data Describes a trend in the data 	<p>Interpreting Categorical and Quantitative Data</p> <ul style="list-style-type: none"> Determines appropriate intervals and/or scale for a bar graph Determines the average (mean) of a simple set of data Determines the mean of a complex set of data (e.g., fractions, integers, many data points) Solves simple problems involving mean Solves problems with missing data when the mean is known Determines the middle value (median) from a simple set of data Determines the spread (range) from a simple set of data Predicts from line graphs Predicts from plotted data 	<p>Interpreting Categorical and Quantitative Data</p> <ul style="list-style-type: none"> Determines appropriate intervals and/or scale for a bar graph Interprets data given in horizontal and vertical bar graphs to solve problems Reads and interprets data in box-and-whisker plots Determines the mean of a complex set of data (e.g., fractions, integers, many data points) Solves problems with missing data when the mean is known Determines the median from a complex set of data (e.g., not in order, many data points) Determines the range of a complex set of data Estimates line of best fit to make predictions
<p>Using Sampling and Probability to Make Decisions</p> <ul style="list-style-type: none"> Determines all possible outcomes Determines the probability for a simple experiment using one die Determines probability from a real-world situation - number of possible outcomes given Determines the probabilities for a simple experiment using a frequency table - must determine size of sample space Determines probability when drawing objects from containers - must determine size of sample space Modifies sample space to change the probability of an event Determines the complement of a simple event Determines the possible outcomes for a simple probability experiment using spinners Determines the number of possible combinations of given items Predicts the sample space, based on the outcome of an experiment - tally sheet Uses systematic lists to represent problems 	<p>Using Sampling and Probability to Make Decisions</p> <ul style="list-style-type: none"> Determines likelihood using tree diagrams Determines probability - must determine size of sample space Modifies sample space to change the probability of an event Determines the complement of a simple event 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 number of possible combinations of given items Determines the outcome of simple multiple events Predicts the sample space, based on the outcome of an experiment - tally sheet Uses the results of probability experiments or events to predict future events Computes probability as a fraction, given equivalent forms Identifies whether predictions are based on theoretical or experimental probability Determines the most accurate sample for a situation Describes the population based on a given sample 	<p>Using Sampling and Probability to Make Decisions</p> <ul style="list-style-type: none"> Determines probability - must determine size of sample space Modifies sample space to change the probability of an event Determines the probability of independent simple compound events Determines the possible outcomes for a simple probability experiment using dart boards Determines the outcome of simple multiple events Uses the results of probability experiments or events to predict future events Predicts from an analysis of data and statistical measures Predicts from charts and tables Describes the population based on a given sample
<p><i>New Vocabulary:</i> fastest, fitted line, mean, number cube, outcome, scatter plot</p> <p><i>New Signs and Symbols:</i> { } set notation, lb pound, P() probability, % percent</p>	<p><i>New Vocabulary:</i> tails</p> <p><i>New Signs and Symbols:</i> None</p>	<p><i>New Vocabulary:</i> box-and-whisker plot, data point, interquartile range, middle, representative sample, sample</p> <p><i>New Signs and Symbols:</i> °F degrees Fahrenheit</p>

Explanatory Notes

* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.