

DesCartes: A Continuum of Learning®

Mathematics

Goal: Measurement and Data

RIT Score Range: < 161
Statements Last Updated: Sep 23, 2013

Skills and Concepts to Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
	<ul style="list-style-type: none"> • Compares objects (shorter, longer) • Estimates and measures length of an object to the nearest inch using a picture of a ruler • Measures length with customary measures to the inch mark • Measures length with metric measures to the centimeter mark • Identifies time of day (e.g., morning, afternoon) • Tells time to the nearest hour • Tells time to the nearest half hour
Represent and Interpret Data	Represent and Interpret Data
<ul style="list-style-type: none"> • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) 	<ul style="list-style-type: none"> • Reads a chart or table - numbers • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Displays data appropriately - bar graph - scale is 1 to 1 • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Compares data from simple graphs (e.g., largest, smallest, most often, least often)
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> dollar, longest, shortest
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> = is equal to, : used with time

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.

Skills and Concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving <ul style="list-style-type: none"> • Compares objects (shorter, longer) • Estimates and measures length of an object to the nearest inch using a picture of a ruler • Measures length with customary measures to the inch mark • Measures length with metric measures to the centimeter mark • Identifies time of day (e.g., morning, afternoon) • Tells time to the nearest hour • Tells time to the nearest half hour 	Geometric Measurement and Problem Solving <ul style="list-style-type: none"> • Identifies the value of a collection of coins to \$1.00 (with pictures of coins) • Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money) • Estimates and measures length of an object to the nearest centimeter using a picture of a ruler • Measures length with customary measures to the inch mark • Tells time to the nearest hour • Tells time to the nearest half hour • Tells time to the nearest 5 minutes • Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour) • Connects money with place value • Determines the area of irregular shapes by counting square units
Represent and Interpret Data <ul style="list-style-type: none"> • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) 	Represent and Interpret Data <ul style="list-style-type: none"> • Reads a chart or table - numbers • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Displays data appropriately - bar graph - scale is 1 to 1 • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	Represent and Interpret Data <ul style="list-style-type: none"> • Reads a chart or table - comparisons • Reads a chart or table - numbers • Interprets simple graphs or tables • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Solves simple problems based on data from bar graphs • Compares data from simple graphs (e.g., largest, smallest, most often, least often)
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> dollar, longest, shortest	<i>New Vocabulary:</i> morning
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> = is equal to, : used with time	<i>New Signs and Symbols:</i> a.m., ¢ cent sign, \$ dollar sign, p.m.

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.

Skills and Concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Compares objects (shorter, longer) • Estimates and measures length of an object to the nearest inch using a picture of a ruler • Measures length with customary measures to the inch mark • Measures length with metric measures to the centimeter mark • Identifies time of day (e.g., morning, afternoon) • Tells time to the nearest hour • Tells time to the nearest half hour 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Identifies the value of a collection of coins to \$1.00 (with pictures of coins) • Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money) • Estimates and measures length of an object to the nearest centimeter using a picture of a ruler • Measures length with customary measures to the inch mark • Tells time to the nearest hour • Tells time to the nearest half hour • Tells time to the nearest 5 minutes • Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour) • Connects money with place value • Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Identifies the value of a collection of coins to \$1.00 (without picture of coins) • Adds money with regrouping • Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money) • Finds equivalent combinations of coins with the same value • Combines a collection of coins and identifies the correct notation • Makes change to \$1.00 by counting on or subtracting • Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) • Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00 • Selects and uses the appropriate type and size of unit in customary system (length) • Uses a variety of non-standard units to measure the same length • Determines more capacity or less capacity • Identifies the correct time, given the words, and vice versa • Determines elapsed clock time • Determines elapsed time under 1 hour or to the hour • Determines elapsed time involving whole hours, whole days, whole years • Tells time to the nearest 5 minutes • Computes simple conversions among units of time (days, weeks) • Determines the perimeter of a figure where all sides are labeled • Determines the area of irregular shapes by counting square units
<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Reads a chart or table - numbers • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Displays data appropriately - bar graph - scale is 1 to 1 • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Reads a chart or table - comparisons • Reads a chart or table - numbers • Interprets simple graphs or tables • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Solves simple problems based on data from bar graphs • Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Measures length with customary measures to the half-inch mark • Interprets simple graphs or tables • Reads and interprets data from a pictograph • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Reads and interprets data from a bar graph • Interprets a simple bar graph - calculation required • Solves simple problems based on data from bar graphs • Reads data in a line graph - no calculations

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 161 - 170	Skills and Concepts to Develop (50% Probability*) 171 - 180	Skills and Concepts to Introduce (27% Probability*) 181 - 190
<i>New Vocabulary:</i> dollar, longest, shortest	<i>New Vocabulary:</i> morning	<i>New Vocabulary:</i> changed, clock, estimation, half past, how much time, left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time
<i>New Signs and Symbols:</i> = is equal to, : used with time	<i>New Signs and Symbols:</i> a.m., ¢ cent sign, \$ dollar sign, p.m.	
		<i>New Signs and Symbols:</i> : used with time, : used with time

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.

DesCartes: A Continuum of Learning®

Mathematics

Goal: Measurement and Data

RIT Score Range: 181 - 190
Statements Last Updated: Sep 23, 2013

Skills and Concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (with pictures of coins) Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money) Estimates and measures length of an object to the nearest centimeter using a picture of a ruler Measures length with customary measures to the inch mark Tells time to the nearest hour Tells time to the nearest half hour Tells time to the nearest 5 minutes Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour) Connects money with place value Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money) Finds equivalent combinations of coins with the same value Combines a collection of coins and identifies the correct notation Makes change to \$1.00 by counting on or subtracting Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00 Selects and uses the appropriate type and size of unit in customary system (length) Uses a variety of non-standard units to measure the same length Determines more capacity or less capacity Identifies the correct time, given the words, and vice versa Determines elapsed clock time Determines elapsed time under 1 hour or to the hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 5 minutes Computes simple conversions among units of time (days, weeks) Determines the perimeter of a figure where all sides are labeled Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by counting on (without picture of money) Finds equivalent combinations of coins with the same value Makes change to \$1.00 by counting on or subtracting Solves real-world problems involving decimals (not money) using addition and subtraction Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Computes half price (multiplication/division) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) Selects and uses the appropriate type and size of unit in customary system (length) Computes basic operations with units of weight/mass Converts between cups and pints Converts between cups, pints, and quarts Identifies the correct time, given the words, and vice versa Determines elapsed clock time Tells time to the nearest quarter hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 1 minute Computes simple conversions among units of time (minutes, hours) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles/kilometers per hour Determines the perimeter of a figure where all sides are labeled Determines the perimeter of a figure where some sides are labeled Solves simple problems involving the perimeter of squares, rectangles, or triangles Estimates the area of rectangles using square units

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
Represent and Interpret Data <ul style="list-style-type: none"> • Reads a chart or table - comparisons • Reads a chart or table - numbers • Interprets simple graphs or tables • Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often) • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Solves simple problems based on data from bar graphs • Compares data from simple graphs (e.g., largest, smallest, most often, least often) 	Represent and Interpret Data <ul style="list-style-type: none"> • Measures length with customary measures to the half-inch mark • Interprets simple graphs or tables • Reads and interprets data from a pictograph • Solves simple problems based on data from pictographs • Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) • Reads a simple bar graph - numbers (e.g., how many) • Reads and interprets data from a bar graph • Interprets a simple bar graph - calculation required • Solves simple problems based on data from bar graphs • Reads data in a line graph - no calculations 	Represent and Interpret Data <ul style="list-style-type: none"> • Reads and interprets data from a pictograph • Interprets a pictograph - calculation required • Reads and interprets data from a bar graph • Reads and interprets dual bar graphs • Interprets a simple bar graph - calculation required • Reads data in a line graph - no calculations
<i>New Vocabulary:</i> morning	<i>New Vocabulary:</i> changed, clock, estimation, half past, how much time, left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time	<i>New Vocabulary:</i> decade, deposit, longer, miles per hour
<i>New Signs and Symbols:</i> a.m., ¢ cent sign, \$ dollar sign, p.m.	<i>New Signs and Symbols:</i> : used with time, : used with time	<i>New Signs and Symbols:</i> °F degrees Fahrenheit, ft feet, g gram, in. inch, lb pound, m meter/metre, min minute, yd yard

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money) Finds equivalent combinations of coins with the same value Combines a collection of coins and identifies the correct notation Makes change to \$1.00 by counting on or subtracting Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00 Selects and uses the appropriate type and size of unit in customary system (length) Uses a variety of non-standard units to measure the same length Determines more capacity or less capacity Identifies the correct time, given the words, and vice versa Determines elapsed clock time Determines elapsed time under 1 hour or to the hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 5 minutes Computes simple conversions among units of time (days, weeks) Determines the perimeter of a figure where all sides are labeled Determines the area of irregular shapes by counting square units 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by counting on (without picture of money) Finds equivalent combinations of coins with the same value Makes change to \$1.00 by counting on or subtracting Solves real-world problems involving decimals (not money) using addition and subtraction Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Computes half price (multiplication/division) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) Selects and uses the appropriate type and size of unit in customary system (length) Computes basic operations with units of weight/mass Converts between cups and pints Converts between cups, pints, and quarts Identifies the correct time, given the words, and vice versa Determines elapsed clock time Tells time to the nearest quarter hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 1 minute Computes simple conversions among units of time (minutes, hours) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles/kilometers per hour Determines the perimeter of a figure where all sides are labeled Determines the perimeter of a figure where some sides are labeled Solves simple problems involving the perimeter of squares, rectangles, or triangles Estimates the area of rectangles using square units 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Computes the value of multiple bills and coins (addition/subtraction only) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes addition and subtraction on multiple-step real-world problems involving money Computes money problems with multiple operations (addition/subtraction only) Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money Uses the appropriate unit of measure for length Knows the approximate size of a yard Measures length to the nearest centimeter Converts between inches and feet Knows the approximate size of a pound Knows the approximate size of a gram Converts between cups and pints Converts between cups, pints, and quarts Computes simple conversions among units of time (hours, days) Computes more difficult conversions among units of time Solves problems involving measurement of time Applies dimensional analysis to simple real-world problems (time) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles per gallon Solves simple problems involving miles/kilometers per hour Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Determines the perimeter of a figure where some sides are labeled Estimates the area of rectangles using square units Determines the area of irregular shapes with partial square units Identifies situations where it is appropriate to calculate area Estimates and finds volume of a figure using cubic units Uses basic indirect methods to estimate measurements (grids for area of irregular figures)

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 181 - 190	Skills and Concepts to Develop (50% Probability*) 191 - 200	Skills and Concepts to Introduce (27% Probability*) 201 - 210
Represent and Interpret Data <ul style="list-style-type: none"> Measures length with customary measures to the half-inch mark Interprets simple graphs or tables Reads and interprets data from a pictograph Solves simple problems based on data from pictographs Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often) Reads a simple bar graph - numbers (e.g., how many) Reads and interprets data from a bar graph Interprets a simple bar graph - calculation required Solves simple problems based on data from bar graphs Reads data in a line graph - no calculations 	Represent and Interpret Data <ul style="list-style-type: none"> Reads and interprets data from a pictograph Interprets a pictograph - calculation required Reads and interprets data from a bar graph Reads and interprets dual bar graphs Interprets a simple bar graph - calculation required Reads data in a line graph - no calculations 	Represent and Interpret Data <ul style="list-style-type: none"> Solves problems using pictographs Organizes data to create simple bar graphs Solves problems using bar graphs Solves problems using dual bar graphs Draws conclusions from data - bar graphs
<i>New Vocabulary:</i> changed, clock, estimation, half past, how much time, left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time <i>New Signs and Symbols:</i> : used with time, : used with time	<i>New Vocabulary:</i> decade, deposit, longer, miles per hour <i>New Signs and Symbols:</i> °F degrees Fahrenheit, ft feet, g gram, in. inch, lb pound, m meter/metre, min minute, yd yard	<i>New Vocabulary:</i> bar graph, cubic centimeter, cubic unit, larger <i>New Signs and Symbols:</i> cm centimeter/centimetre, variable

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Identifies the value of a collection of coins to \$1.00 (without picture of coins) Adds money with regrouping Identifies the value of a collection of coins and bills to \$10.00 by counting on (without picture of money) Finds equivalent combinations of coins with the same value Makes change to \$1.00 by counting on or subtracting Solves real-world problems involving decimals (not money) using addition and subtraction Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only) Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Computes half price (multiplication/division) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) Selects and uses the appropriate type and size of unit in customary system (length) Computes basic operations with units of weight/mass Converts between cups and pints Converts between cups, pints, and quarts Identifies the correct time, given the words, and vice versa Determines elapsed clock time Tells time to the nearest quarter hour Determines elapsed time involving whole hours, whole days, whole years Tells time to the nearest 1 minute Computes simple conversions among units of time (minutes, hours) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles/kilometers per hour Determines the perimeter of a figure where all sides are labeled Determines the perimeter of a figure where some sides are labeled Solves simple problems involving the perimeter of squares, rectangles, or triangles Estimates the area of rectangles using square units 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Computes the value of multiple bills and coins (addition/subtraction only) Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) Computes addition and subtraction on multiple-step real-world problems involving money Computes money problems with multiple operations (addition/subtraction only) Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money Uses the appropriate unit of measure for length Knows the approximate size of a yard Measures length to the nearest centimeter Converts between inches and feet Knows the approximate size of a pound Knows the approximate size of a gram Converts between cups and pints Converts between cups, pints, and quarts Computes simple conversions among units of time (hours, days) Computes more difficult conversions among units of time Solves problems involving measurement of time Applies dimensional analysis to simple real-world problems (time) Solves simple problems involving elapsed time, with the conversion of hours Solves simple problems involving miles per gallon Solves simple problems involving miles/kilometers per hour Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Determines the perimeter of a figure where some sides are labeled Estimates the area of rectangles using square units Determines the area of irregular shapes with partial square units Identifies situations where it is appropriate to calculate area Estimates and finds volume of a figure using cubic units Uses basic indirect methods to estimate measurements (grids for area of irregular figures) 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> Computes the value of multiple bills and coins (addition/subtraction only) Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) Computes addition and subtraction on multiple-step real-world problems involving money Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money Uses the appropriate unit of measure for length Knows the approximate size of a millimeter Converts between inches and feet Converts between inches, feet, and yards Selects and uses the appropriate type and size of unit in metric system (mass) Converts between cups, pints, quarts, and gallons Apply dimensional analysis to simple real-world problems (capacity) Computes more difficult conversions among units of time Applies dimensional analysis to simple real-world problems (time) Solves difficult problems involving elapsed time, with the conversion of hours Solves simple problems involving miles per gallon Solves problems involving rates Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents Measures angles using a protractor Determines the perimeter of a figure using non-standard units Solves problems involving the perimeter of squares, rectangles, or triangles Finds the perimeter of a polygon using a formula Describes the change in perimeter when dimensions of an object are altered Determines the area of irregular shapes with partial square units Estimates and finds volume of a figure using cubic units Identifies properties of angles

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 191 - 200	Skills and Concepts to Develop (50% Probability*) 201 - 210	Skills and Concepts to Introduce (27% Probability*) 211 - 220
Represent and Interpret Data <ul style="list-style-type: none"> • Reads and interprets data from a pictograph • Interprets a pictograph - calculation required • Reads and interprets data from a bar graph • Reads and interprets dual bar graphs • Interprets a simple bar graph - calculation required • Reads data in a line graph - no calculations 	Represent and Interpret Data <ul style="list-style-type: none"> • Solves problems using pictographs • Organizes data to create simple bar graphs • Solves problems using bar graphs • Solves problems using dual bar graphs • Draws conclusions from data - bar graphs 	Represent and Interpret Data <ul style="list-style-type: none"> • Solves problems using pictographs • Solves problems using bar graphs • Reads and interprets data in line plots
<i>New Vocabulary:</i> decade, deposit, longer, miles per hour	<i>New Vocabulary:</i> bar graph, cubic centimeter, cubic unit, larger	<i>New Vocabulary:</i> century, coin, how long
<i>New Signs and Symbols:</i> °F degrees Fahrenheit, ft feet, g gram, in. inch, lb pound, m meter/metre, min minute, yd yard	<i>New Signs and Symbols:</i> cm centimeter/centimetre, variable	<i>New Signs and Symbols:</i> \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up

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Skills and Concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Computes the value of multiple bills and coins (addition/subtraction only) • Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes money problems with multiple operations (addition/subtraction only) • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a yard • Measures length to the nearest centimeter • Converts between inches and feet • Knows the approximate size of a pound • Knows the approximate size of a gram • Converts between cups and pints • Converts between cups, pints, and quarts • Computes simple conversions among units of time (hours, days) • Computes more difficult conversions among units of time • Solves problems involving measurement of time • Applies dimensional analysis to simple real-world problems (time) • Solves simple problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Solves simple problems involving miles/kilometers per hour • Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents • Determines the perimeter of a figure where some sides are labeled • Estimates the area of rectangles using square units • Determines the area of irregular shapes with partial square units • Identifies situations where it is appropriate to calculate area • Estimates and finds volume of a figure using cubic units • Uses basic indirect methods to estimate measurements (grids for area of irregular figures) 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Computes the value of multiple bills and coins (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a millimeter • Converts between inches and feet • Converts between inches, feet, and yards • Selects and uses the appropriate type and size of unit in metric system (mass) • Converts between cups, pints, quarts, and gallons • Apply dimensional analysis to simple real-world problems (capacity) • Computes more difficult conversions among units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Solves problems involving rates • Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents • Measures angles using a protractor • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Finds the perimeter of a polygon using a formula • Describes the change in perimeter when dimensions of an object are altered • Determines the area of irregular shapes with partial square units • Estimates and finds volume of a figure using cubic units • Identifies properties of angles 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes the value of multiple bills and coins (multiplication/division) • Measures length to the nearest millimeter • Converts between inches, feet, and yards • Converts between millimeters, centimeters, meters, and kilometers • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between ounces and pounds • Converts between ounces, pounds, and tons • Converts between cups, pints, quarts, and gallons • Converts within the metric system • Apply dimensional analysis to simple real-world problems (capacity) • Computes 2-step conversions between units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves complex problems involving miles/kilometers per hour • Solves problems involving rates • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Solves problems involving the perimeter of irregular or complex shapes • Solves problems involving perimeter and converts to larger or smaller units • Describes the change in perimeter when dimensions of an object are altered • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates area and perimeter of a rectangle (customary units) • Calculates the volume of rectangular solids

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.

Skills and Concepts to Enhance (73% Probability*) 201 - 210	Skills and Concepts to Develop (50% Probability*) 211 - 220	Skills and Concepts to Introduce (27% Probability*) 221 - 230
Represent and Interpret Data <ul style="list-style-type: none"> Solves problems using pictographs Organizes data to create simple bar graphs Solves problems using bar graphs Solves problems using dual bar graphs Draws conclusions from data - bar graphs 	Represent and Interpret Data <ul style="list-style-type: none"> Solves problems using pictographs Solves problems using bar graphs Reads and interprets data in line plots 	Represent and Interpret Data <ul style="list-style-type: none"> Determines appropriate intervals and/or scale for a bar graph
<i>New Vocabulary:</i> bar graph, cubic centimeter, cubic unit, larger <i>New Signs and Symbols:</i> cm centimeter/centimetre, variable	<i>New Vocabulary:</i> century, coin, how long <i>New Signs and Symbols:</i> \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up	<i>New Vocabulary:</i> cubic meter <i>New Signs and Symbols:</i> h height, l length, mL milliliter/millilitre, mm millimeter/millimetre, V volume, w width

Explanatory Notes

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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>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Computes the value of multiple bills and coins (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only) • Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division) • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes addition and subtraction on multiple-step real-world problems involving money • Computes addition, subtraction, multiplication, and division on multiple-step, real-world problems involving money • Uses the appropriate unit of measure for length • Knows the approximate size of a millimeter • Converts between inches and feet • Converts between inches, feet, and yards • Selects and uses the appropriate type and size of unit in metric system (mass) • Converts between cups, pints, quarts, and gallons • Apply dimensional analysis to simple real-world problems (capacity) • Computes more difficult conversions among units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves simple problems involving miles per gallon • Solves problems involving rates • Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents • Measures angles using a protractor • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Finds the perimeter of a polygon using a formula • Describes the change in perimeter when dimensions of an object are altered • Determines the area of irregular shapes with partial square units • Estimates and finds volume of a figure using cubic units • Identifies properties of angles 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes the value of multiple bills and coins (multiplication/division) • Measures length to the nearest millimeter • Converts between inches, feet, and yards • Converts between millimeters, centimeters, meters, and kilometers • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between ounces and pounds • Converts between ounces, pounds, and tons • Converts between cups, pints, quarts, and gallons • Converts within the metric system • Apply dimensional analysis to simple real-world problems (capacity) • Computes 2-step conversions between units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves complex problems involving miles/kilometers per hour • Solves problems involving rates • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Solves problems involving the perimeter of irregular or complex shapes • Solves problems involving perimeter and converts to larger or smaller units • Describes the change in perimeter when dimensions of an object are altered • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates area and perimeter of a rectangle (customary units) • Calculates the volume of rectangular solids 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Measures length to the nearest millimeter • Converts between millimeters, centimeters, meters, and kilometers • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between grams and kilograms • Converts within the metric system • Apply dimensional analysis to simple real-world problems (capacity) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving rates • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Identifies the formula for perimeter with a variable • Determines the area of a triangle drawn on a grid • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates the volume of rectangular solids • Calculates the length, width, or height of a rectangular prism, given the area (customary units)

Explanatory Notes

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DesCartes: A Continuum of Learning®

Mathematics

Goal: Measurement and Data

RIT Score Range: 221 - 230
Statements Last Updated: Sep 23, 2013

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
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
<ul style="list-style-type: none"> Solves problems using pictographs Solves problems using bar graphs Reads and interprets data in line plots 	<ul style="list-style-type: none"> Determines appropriate intervals and/or scale for a bar graph 	<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
<i>New Vocabulary:</i> century, coin, how long	<i>New Vocabulary:</i> cubic meter	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up	<i>New Signs and Symbols:</i> h height, l length, mL milliliter/millilitre, mm millimeter/millimetre, V volume, w width	<i>New Signs and Symbols:</i> () order of operations, + addition, kg kilogram, P perimeter

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division) • Computes the value of multiple bills and coins (multiplication/division) • Measures length to the nearest millimeter • Converts between inches, feet, and yards • Converts between millimeters, centimeters, meters, and kilometers • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between ounces and pounds • Converts between ounces, pounds, and tons • Converts between cups, pints, quarts, and gallons • Converts within the metric system • Apply dimensional analysis to simple real-world problems (capacity) • Computes 2-step conversions between units of time • Applies dimensional analysis to simple real-world problems (time) • Solves difficult problems involving elapsed time, with the conversion of hours • Solves complex problems involving miles/kilometers per hour • Solves problems involving rates • Determines the perimeter of a figure using non-standard units • Solves problems involving the perimeter of squares, rectangles, or triangles • Solves problems involving the perimeter of irregular or complex shapes • Solves problems involving perimeter and converts to larger or smaller units • Describes the change in perimeter when dimensions of an object are altered • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates area and perimeter of a rectangle (customary units) • Calculates the volume of rectangular solids 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Measures length to the nearest millimeter • Converts between millimeters, centimeters, meters, and kilometers • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving length in the customary system and converts to larger or smaller units • Converts between grams and kilograms • Converts within the metric system • Apply dimensional analysis to simple real-world problems (capacity) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving rates • Solves problems involving the perimeter of irregular or complex shapes • Describes the change in perimeter when dimensions of an object are altered • Identifies the formula for perimeter with a variable • Determines the area of a triangle drawn on a grid • Calculates the area of a rectangle, given labeled sides (customary units) • Determines the length or width of a rectangle, given the area (metric units) • Determines the area of irregular shapes (customary units) • Calculates the volume of rectangular solids • Calculates the length, width, or height of a rectangular prism, given the area (customary units) 	<p>Geometric Measurement and Problem Solving</p> <ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving area of a rectangle and converts to larger or smaller units (customary) • Determines the area of irregular shapes (customary units) • Calculates the area of irregular shapes (metric units) • Solves complex problems involving inscribed figures • Uses properties of angles to solve mathematical problems
<p>Represent and Interpret Data</p> <ul style="list-style-type: none"> • Determines appropriate intervals and/or scale for a bar graph 	<p>Represent and Interpret 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 	<p>Represent and Interpret Data</p>

Explanatory Notes

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DesCartes: A Continuum of Learning®

Mathematics

Goal: Measurement and Data

RIT Score Range: 231 - 240
Statements Last Updated: Sep 23, 2013

Skills and Concepts to Enhance (73% Probability*) 221 - 230	Skills and Concepts to Develop (50% Probability*) 231 - 240	Skills and Concepts to Introduce (27% Probability*) 241 - 250
<i>New Vocabulary:</i> cubic meter	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> h height, l length, mL milliliter/millilitre, mm millimeter/millimetre, V volume, w width	<i>New Signs and Symbols:</i> () order of operations, + addition, kg kilogram, P perimeter	<i>New Signs and Symbols:</i> x multiplication

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 231 - 240	Skills and Concepts to Develop (50% Probability*) 241 - 250	Skills and Concepts to Introduce (27% Probability*) 251 - 260
Geometric Measurement and Problem Solving <ul style="list-style-type: none"> Measures length to the nearest millimeter Converts between millimeters, centimeters, meters, and kilometers Apply dimensional analysis to simple real-world problems (length) Solves problems involving length in the customary system and converts to larger or smaller units Converts between grams and kilograms Converts within the metric system Apply dimensional analysis to simple real-world problems (capacity) Solves problems involving capacity in the metric system and converts to larger or smaller units Solves problems involving rates Solves problems involving the perimeter of irregular or complex shapes Describes the change in perimeter when dimensions of an object are altered Identifies the formula for perimeter with a variable Determines the area of a triangle drawn on a grid Calculates the area of a rectangle, given labeled sides (customary units) Determines the length or width of a rectangle, given the area (metric units) Determines the area of irregular shapes (customary units) Calculates the volume of rectangular solids Calculates the length, width, or height of a rectangular prism, given the area (customary units) 	Geometric Measurement and Problem Solving <ul style="list-style-type: none"> Apply dimensional analysis to simple real-world problems (length) Solves problems involving capacity in the metric system and converts to larger or smaller units Solves problems involving area of a rectangle and converts to larger or smaller units (customary) Determines the area of irregular shapes (customary units) Calculates the area of irregular shapes (metric units) Solves complex problems involving inscribed figures Uses properties of angles to solve mathematical problems 	Geometric Measurement and Problem Solving <ul style="list-style-type: none"> Solves complex problems involving inscribed figures Calculates the length of one side of a cube, given the volume (customary units) Uses properties of angles to solve mathematical problems
Represent and Interpret Data <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 	Represent and Interpret Data	Represent and Interpret Data
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> () order of operations, + addition, kg kilogram, P perimeter	<i>New Signs and Symbols:</i> × multiplication	<i>New Signs and Symbols:</i> None

Explanatory Notes

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Skills and Concepts to Enhance (73% Probability*) 241 - 250	Skills and Concepts to Develop (50% Probability*) 251 - 260	Skills and Concepts to Introduce (27% Probability*) > 260
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul style="list-style-type: none"> • Apply dimensional analysis to simple real-world problems (length) • Solves problems involving capacity in the metric system and converts to larger or smaller units • Solves problems involving area of a rectangle and converts to larger or smaller units (customary) • Determines the area of irregular shapes (customary units) • Calculates the area of irregular shapes (metric units) • Solves complex problems involving inscribed figures • Uses properties of angles to solve mathematical problems 	<ul style="list-style-type: none"> • Solves complex problems involving inscribed figures • Calculates the length of one side of a cube, given the volume (customary units) • Uses properties of angles to solve mathematical problems 	<ul style="list-style-type: none"> • Uses properties of angles to solve mathematical problems
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> x multiplication	<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

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.

Skills and Concepts to Enhance (73% Probability*) 251 - 260	Skills and Concepts to Develop (50% Probability*) > 260
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul style="list-style-type: none"> • Solves complex problems involving inscribed figures • Calculates the length of one side of a cube, given the volume (customary units) • Uses properties of angles to solve mathematical problems 	<ul style="list-style-type: none"> • Uses properties of angles to solve mathematical problems
Represent and Interpret Data	Represent and Interpret Data
<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> None

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.