

#### **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
	Compares objects (shorter, longer)
	<ul> <li>Estimates and measures length of an object to the nearest inch using a picture of a ruler</li> </ul>
	<ul> <li>Measures length with customary measures to the inch mark</li> </ul>
	<ul> <li>Measures length with metric measures to the centimeter mark</li> </ul>
	<ul> <li>Identifies time of day (e.g., morning, afternoon)</li> </ul>
	Tells time to the nearest hour
	Tells time to the nearest half hour
Represent and Interpret Data	Represent and Interpret Data
Reads a simple pictograph - comparisons (e.g., largest smallest, most	<ul> <li>Reads a chart or table - numbers</li> </ul>
Heads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)	<ul> <li>Reads a chart or table - numbers</li> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> </ul>
	Reads a simple pictograph - comparisons (e.g., largest smallest, most
	Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)
	<ul> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Displays data appropriately - bar graph - scale is 1 to 1</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most</li> </ul>
	<ul> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Displays data appropriately - bar graph - scale is 1 to 1</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often,</li> </ul>



#### **Mathematics**

Goal: Measurement and Data

**RIT Score Range:** 161 - 170 Statements Last Updated: Sep 23, 2013

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	Geometric Measurement and Problem Solving
	<ul> <li>Compares objects (shorter, longer)</li> <li>Estimates and measures length of an object to the nearest inch using a picture of a ruler</li> <li>Measures length with customary measures to the inch mark</li> <li>Measures length with metric measures to the centimeter mark</li> <li>Identifies time of day (e.g., morning, afternoon)</li> <li>Tells time to the nearest hour</li> <li>Tells time to the nearest half hour</li> </ul>	<ul> <li>Identifies the value of a collection of coins to \$1.00 (with pictures of coins)</li> <li>Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money)</li> <li>Estimates and measures length of an object to the nearest centimeter using a picture of a ruler</li> <li>Measures length with customary measures to the inch mark</li> <li>Tells time to the nearest hour</li> <li>Tells time to the nearest half hour</li> <li>Tells time to the nearest 5 minutes</li> <li>Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour)</li> <li>Connects money with place value</li> <li>Determines the area of irregular shapes by counting square units</li> </ul>
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
	The present and interpret Data	hepresent and interpret Data
<ul> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> </ul>	<ul> <li>Reads a chart or table - numbers</li> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Displays data appropriately - bar graph - scale is 1 to 1</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often, least often)</li> </ul>	<ul> <li>Reads a chart or table - comparisons</li> <li>Reads a chart or table - numbers</li> <li>Interprets simple graphs or tables</li> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Solves simple problems based on data from pictographs</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Reads a simple bar graph - numbers (e.g., how many)</li> <li>Solves simple problems based on data from bar graphs</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often, least often)</li> </ul>
	<ul> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Displays data appropriately - bar graph - scale is 1 to 1</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often,</li> </ul>	<ul> <li>Reads a chart or table - numbers</li> <li>Interprets simple graphs or tables</li> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Solves simple problems based on data from pictographs</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Reads a simple bar graph - numbers (e.g., how many)</li> <li>Solves simple problems based on data from bar graphs</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often, least often)</li> </ul>

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.



**Mathematics** 

Goal: Measurement and Data

**RIT Score Range:** 171 - 180 Statements Last Updated: Sep 23, 2013

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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul> <li>Compares objects (shorter, longer)</li> <li>Estimates and measures length of an object to the nearest inch using a picture of a ruler</li> <li>Measures length with customary measures to the inch mark</li> <li>Measures length with metric measures to the centimeter mark</li> <li>Identifies time of day (e.g., morning, afternoon)</li> <li>Tells time to the nearest hour</li> <li>Tells time to the nearest half hour</li> </ul>	<ul> <li>Identifies the value of a collection of coins to \$1.00 (with pictures of coins)</li> <li>Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money)</li> <li>Estimates and measures length of an object to the nearest centimeter using a picture of a ruler</li> <li>Measures length with customary measures to the inch mark</li> <li>Tells time to the nearest hour</li> <li>Tells time to the nearest half hour</li> <li>Tells time to the nearest 5 minutes</li> <li>Computes simple conversions among units of time (minutes in an hour, half hour, quarter hour)</li> <li>Connects money with place value</li> <li>Determines the area of irregular shapes by counting square units</li> </ul>	<ul> <li>Identifies the value of a collection of coins to \$1.00 (without picture of coins)</li> <li>Adds money with regrouping</li> <li>Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money)</li> <li>Finds equivalent combinations of coins with the same value</li> <li>Combines a collection of coins and identifies the correct notation</li> <li>Makes change to \$1.00 by counting on or subtracting</li> <li>Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only)</li> <li>Computes 1 operation on addition or subtraction real-world problems involving money up to \$5.00</li> <li>Selects and uses the appropriate type and size of unit in customary system (length)</li> <li>Uses a variety of non-standard units to measure the same length</li> <li>Determines more capacity or less capacity</li> <li>Identifies the correct time, given the words, and vice versa</li> <li>Determines elapsed time under 1 hour or to the hour</li> <li>Determines elapsed time involving whole hours, whole days, whole years</li> <li>Tells time to the nearest 5 minutes</li> <li>Computes simple conversions among units of time (days, weeks)</li> <li>Determines the perimeter of a figure where all sides are labeled</li> <li>Determines the area of irregular shapes by counting square units</li> </ul>
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
<ul> <li>Reads a chart or table - numbers</li> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Displays data appropriately - bar graph - scale is 1 to 1</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often, least often)</li> </ul>	<ul> <li>Reads a chart or table - comparisons</li> <li>Reads a chart or table - numbers</li> <li>Interprets simple graphs or tables</li> <li>Reads a simple pictograph - comparisons (e.g., largest smallest, most often, least often)</li> <li>Solves simple problems based on data from pictographs</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Reads a simple bar graph - numbers (e.g., how many)</li> <li>Solves simple problems based on data from bar graphs</li> <li>Compares data from simple graphs (e.g., largest, smallest, most often, least often)</li> </ul>	<ul> <li>Measures length with customary measures to the half-inch mark</li> <li>Interprets simple graphs or tables</li> <li>Reads and interprets data from a pictograph</li> <li>Solves simple problems based on data from pictographs</li> <li>Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)</li> <li>Reads a simple bar graph - numbers (e.g., how many)</li> <li>Reads and interprets data from a bar graph</li> <li>Interprets a simple bar graph - calculation required</li> <li>Solves simple problems based on data from bar graphs</li> <li>Reads data in a line graph - no calculations</li> </ul>



#### Mathematics

Goal: Measurement and Data

**RIT Score Range:** 171 - 180 Statements Last Updated: Sep 23, 2013

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
New Vocabulary: dollar, longest, shortest New Signs and Symbols: = is equal to, : used with time	New Signs and Symbols: a m_ ¢ cent sign \$ dollar sign n m	<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
		New Signs and Symbols: : 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.



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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul> <li>Identifies the value of a collection of coins to \$1.00 (with pictures of coins)</li> </ul>	<ul> <li>Identifies the value of a collection of coins to \$1.00 (without picture of coins)</li> </ul>	Identifies the value of a collection of coins to \$1.00 (without picture of coins)
<ul> <li>Identifies the value of a collection of coins and bills to \$10.00 by</li> </ul>	Adds money with regrouping	Adds money with regrouping
counting on (with picture of money) <ul> <li>Estimates and measures length of an object to the nearest centimeter</li> </ul>	<ul> <li>Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money)</li> </ul>	Identifies the value of a collection of coins and bills to \$10.00 by counting on (without picture of money)
using a picture of a ruler	Finds equivalent combinations of coins with the same value	Finds equivalent combinations of coins with the same value
<ul> <li>Measures length with customary measures to the inch mark</li> </ul>	Combines a collection of coins and identifies the correct notation	Makes change to \$1.00 by counting on or subtracting
Tells time to the nearest hour	<ul> <li>Makes change to \$1.00 by counting on or subtracting</li> </ul>	Solves real-world problems involving decimals (not money) using
Tells time to the nearest half hour	Computes with dollars and cents up to and including \$5.00 and	addition and subtraction
Tells time to the nearest 5 minutes	converts to decimals (addition/subtraction only)	Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only)
Computes simple conversions among units of time (minutes in an hour hold hour)	• Computes 1 operation on addition or subtraction real-world problems	
hour, half hour, quarter hour) <ul> <li>Connects money with place value</li> </ul>	involving money up to \$5.00 <ul> <li>Selects and uses the appropriate type and size of unit in customary</li> </ul>	Computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only)
Determines the area of irregular shapes by counting square units	system (length)	Computes half price (multiplication/division)
	Uses a variety of non-standard units to measure the same length     Determines more capacity or less capacity	Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division)
	Identifies the correct time, given the words, and vice versa	Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division)
	Determines elapsed clock time     Determines elapsed time under 1 hour or to the hour	Selects and uses the appropriate type and size of unit in customary system (length)
	Determines elapsed time involving whole hours, whole days, whole	Computes basic operations with units of weight/mass
	years	Converts between cups and pints
	Tells time to the nearest 5 minutes	Converts between cups, pints, and quarts
	Computes simple conversions among units of time (days, weeks)	<ul> <li>Identifies the correct time, given the words, and vice versa</li> </ul>
	Determines the perimeter of a figure where all sides are labeled	Determines elapsed clock time
	Determines the area of irregular shapes by counting square units	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



### 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
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
Reads a chart or table - comparisons	Measures length with customary measures to the half-inch mark	<ul> <li>Reads and interprets data from a pictograph</li> </ul>
Reads a chart or table - numbers	<ul> <li>Interprets simple graphs or tables</li> </ul>	<ul> <li>Interprets a pictograph - calculation required</li> </ul>
<ul> <li>Interprets simple graphs or tables</li> </ul>	<ul> <li>Reads and interprets data from a pictograph</li> </ul>	<ul> <li>Reads and interprets data from a bar graph</li> </ul>
Reads a simple pictograph - comparisons (e.g., largest smallest, most	<ul> <li>Solves simple problems based on data from pictographs</li> </ul>	<ul> <li>Reads and interprets dual bar graphs</li> </ul>
often, least often)	Reads a simple bar graph - comparisons (e.g., largest, smallest, most	<ul> <li>Interprets a simple bar graph - calculation required</li> </ul>
<ul> <li>Solves simple problems based on data from pictographs</li> </ul>	often, least often)	<ul> <li>Reads data in a line graph - no calculations</li> </ul>
• Reads a simple bar graph - comparisons (e.g., largest, smallest, most	<ul> <li>Reads a simple bar graph - numbers (e.g., how many)</li> </ul>	
often, least often)	<ul> <li>Reads and interprets data from a bar graph</li> </ul>	
<ul> <li>Reads a simple bar graph - numbers (e.g., how many)</li> </ul>	<ul> <li>Interprets a simple bar graph - calculation required</li> </ul>	
<ul> <li>Solves simple problems based on data from bar graphs</li> </ul>	<ul> <li>Solves simple problems based on data from bar graphs</li> </ul>	
Compares data from simple graphs (e.g., largest, smallest, most often, least often)	Reads data in a line graph - no calculations	
New Vocabulary: morning	New Vocabulary: changed, clock, estimation, half past, how much time,	New Vocabulary: decade, deposit, longer, miles per hour
New Signs and Symbols: a.m., ¢ cent sign, \$ dollar sign, p.m.	left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time	New Signs and Symbols: °F degrees Fahrenheit, ft feet, g gram, in. inch, Ib pound, m meter/metre, min minute, yd yard
	New Signs and Symbols: : used with time, : used with time	······································



Mathematics

Goal: Measurement and Data

RIT Score Range:	191 - 200
Statements Last Updated:	Sep 23, 2013

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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul> <li>Identifies the value of a collection of coins to \$1.00 (without picture of coins)</li> </ul>	Identifies the value of a collection of coins to \$1.00 (without picture of coins)	Computes the value of multiple bills and coins (addition/subtraction only)
Adds money with regrouping	Adds money with regrouping	Computes with dollars and cents up to and including \$5.00 and
<ul> <li>Identifies the value of a collection of coins and bills to \$10.00 by counting on (with picture of money)</li> </ul>	<ul> <li>Identifies the value of a collection of coins and bills to \$10.00 by counting on (without picture of money)</li> </ul>	<ul><li>converts to decimals (multiplication/division)</li><li>Computes addition and subtraction on multiple-step real-world</li></ul>
<ul> <li>Finds equivalent combinations of coins with the same value</li> </ul>	Finds equivalent combinations of coins with the same value	problems involving money
Combines a collection of coins and identifies the correct notation	Makes change to \$1.00 by counting on or subtracting	Computes money problems with multiple operations (addition/
<ul> <li>Makes change to \$1.00 by counting on or subtracting</li> </ul>	Solves real-world problems involving decimals (not money) using	subtraction only)
<ul> <li>Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only)</li> </ul>	addition and subtraction <ul> <li>Computes with dollars and cents up to and including \$5.00 and</li> </ul>	Computes addition, subtraction, multiplication, and division on multiple- step, real-world problems involving money
Computes 1 operation on addition or subtraction real-world problems	converts to decimals (addition/subtraction only)	Uses the appropriate unit of measure for length
involving money up to \$5.00	Computes 1 operation on real-world problems involving money over	Knows the approximate size of a yard
Selects and uses the appropriate type and size of unit in customary	\$5.00 (addition/subtraction only)	Measures length to the nearest centimeter
system (length)	Computes half price (multiplication/division)	Converts between inches and feet
<ul> <li>Uses a variety of non-standard units to measure the same length</li> </ul>	Computes with dollars and cents up to and including \$5.00 and	Knows the approximate size of a pound
<ul> <li>Determines more capacity or less capacity</li> </ul>	converts to decimals (multiplication/division)	Knows the approximate size of a gram
<ul> <li>Identifies the correct time, given the words, and vice versa</li> </ul>	Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division)	Converts between cups and pints
Determines elapsed clock time	Selects and uses the appropriate type and size of unit in customary	<ul> <li>Converts between cups, pints, and quarts</li> </ul>
<ul> <li>Determines elapsed time under 1 hour or to the hour</li> </ul>	system (length)	Computes simple conversions among units of time (hours, days)
Determines elapsed time involving whole hours, whole days, whole	Computes basic operations with units of weight/mass	Computes more difficult conversions among units of time
years	Converts between cups and pints	<ul> <li>Solves problems involving measurement of time</li> </ul>
Tells time to the nearest 5 minutes	Converts between cups, pints, and quarts	Applies dimensional analysis to simple real-world problems (time)
Computes simple conversions among units of time (days, weeks)	Identifies the correct time, given the words, and vice versa	Solves simple problems involving elapsed time, with the conversion of
Determines the perimeter of a figure where all sides are labeled	Determines elapsed clock time	hours
Determines the area of irregular shapes by counting square units	Tells time to the nearest quarter hour	Solves simple problems involving miles per gallon
	Determines elapsed time involving whole hours, whole days, whole	Solves simple problems involving miles/kilometers per hour
	years	• Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents
	Tells time to the nearest 1 minute	Determines the perimeter of a figure where some sides are labeled
	Computes simple conversions among units of time (minutes, hours)	Estimates the area of rectangles using square units
	Solves simple problems involving elapsed time, with the conversion of hours	Determines the area of irregular shapes with partial square units
	Solves simple problems involving miles/kilometers per hour	<ul> <li>Identifies situations where it is appropriate to calculate area</li> </ul>
	Determines the perimeter of a figure where all sides are labeled	<ul> <li>Estimates and finds volume of a figure using cubic units</li> </ul>
	Determines the perimeter of a figure where some sides are labeled	Uses basic indirect methods to estimate measurements (grids for area
	Solves simple problems involving the perimeter of squares, rectangles, or triangles	of irregular figures)
	Estimates the area of rectangles using square units	

Explanatory Notes

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Mathematics

Goal: Measurement and Data

**RIT Score Range:** 191 - 200 Statements Last Updated: Sep 23, 2013

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	Represent and Interpret Data	Represent and Interpret Data
Measures length with customary measures to the half-inch mark	<ul> <li>Reads and interprets data from a pictograph</li> </ul>	Solves problems using pictographs
<ul> <li>Interprets simple graphs or tables</li> </ul>	<ul> <li>Interprets a pictograph - calculation required</li> </ul>	Organizes data to create simple bar graphs
<ul> <li>Reads and interprets data from a pictograph</li> </ul>	<ul> <li>Reads and interprets data from a bar graph</li> </ul>	Solves problems using bar graphs
<ul> <li>Solves simple problems based on data from pictographs</li> </ul>	Reads and interprets dual bar graphs	Solves problems using dual bar graphs
Reads a simple bar graph - comparisons (e.g., largest, smallest, most often, least often)	<ul> <li>Interprets a simple bar graph - calculation required</li> <li>Reads data in a line graph - no calculations</li> </ul>	Draws conclusions from data - bar graphs
<ul> <li>Reads a simple bar graph - numbers (e.g., how many)</li> </ul>		
<ul> <li>Reads and interprets data from a bar graph</li> </ul>		
<ul> <li>Interprets a simple bar graph - calculation required</li> </ul>		
<ul> <li>Solves simple problems based on data from bar graphs</li> </ul>		
<ul> <li>Reads data in a line graph - no calculations</li> </ul>		
New Vocabulary: changed, clock, estimation, half past, how much time,	New Vocabulary: decade, deposit, longer, miles per hour	New Vocabulary: bar graph, cubic centimeter, cubic unit, larger
left over, lowest, millimeter, noon, o'clock, pennies, quarter past, quarter to, what time	New Signs and Symbols: °F degrees Fahrenheit, ft feet, g gram, in. inch, lb pound, m meter/metre, min minute, yd yard	New Signs and Symbols: cm centimeter/centimetre, variable
New Signs and Symbols: : used with time, : used with time		



Mathematics

Goal: Measurement and Data

**RIT Score Range:** 201 - 210 Statements Last Updated: Sep 23, 2013

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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul> <li>Identifies the value of a collection of coins to \$1.00 (without picture of coins)</li> </ul>	Computes the value of multiple bills and coins (addition/subtraction only)	Computes the value of multiple bills and coins (addition/subtraction only)
Adds money with regrouping	Computes with dollars and cents up to and including \$5.00 and	Analyzes and computes 1 operation on real-world problems involving
<ul> <li>Identifies the value of a collection of coins and bills to \$10.00 by</li> </ul>	converts to decimals (multiplication/division)	money over \$5.00 (addition/subtraction only)
counting on (without picture of money) <ul> <li>Finds equivalent combinations of coins with the same value</li> </ul>	<ul> <li>Computes addition and subtraction on multiple-step real-world problems involving money</li> </ul>	Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division)
Makes change to \$1.00 by counting on or subtracting	Computes money problems with multiple operations (addition/	• Computes with dollars and cents over \$5.00 and converts to decimals
Solves real-world problems involving decimals (not money) using	subtraction only) <ul> <li>Computes addition, subtraction, multiplication, and division on multiple-</li> </ul>	(multiplication/division) <ul> <li>Computes addition and subtraction on multiple-step real-world</li> </ul>
addition and subtraction	step, real-world problems involving money	problems involving money
Computes with dollars and cents up to and including \$5.00 and converts to decimals (addition/subtraction only)	Uses the appropriate unit of measure for length	· Computes addition, subtraction, multiplication, and division on multiple-
Computes 1 operation on real-world problems involving money over	<ul> <li>Knows the approximate size of a yard</li> </ul>	step, real-world problems involving money
\$5.00 (addition/subtraction only)	Measures length to the nearest centimeter	<ul> <li>Uses the appropriate unit of measure for length</li> </ul>
Computes half price (multiplication/division)	Converts between inches and feet	<ul> <li>Knows the approximate size of a millimeter</li> </ul>
Computes with dollars and cents up to and including \$5.00 and	<ul> <li>Knows the approximate size of a pound</li> </ul>	<ul> <li>Converts between inches and feet</li> </ul>
converts to decimals (multiplication/division)	<ul> <li>Knows the approximate size of a gram</li> </ul>	<ul> <li>Converts between inches, feet, and yards</li> </ul>
Computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division)	Converts between cups and pints	<ul> <li>Selects and uses the appropriate type and size of unit in metric system (mass)</li> </ul>
Selects and uses the appropriate type and size of unit in customary	Converts between cups, pints, and quarts	
system (length)	Computes simple conversions among units of time (hours, days)	<ul> <li>Converts between cups, pints, quarts, and gallons</li> <li>Apply dimensional analysis to simple real-world problems (capacity)</li> </ul>
Computes basic operations with units of weight/mass	Computes more difficult conversions among units of time	
Converts between cups and pints	<ul> <li>Solves problems involving measurement of time</li> </ul>	Computes more difficult conversions among units of time
Converts between cups, pints, and quarts	Applies dimensional analysis to simple real-world problems (time)	Applies dimensional analysis to simple real-world problems (time)     Solves difficult problems involving classed time, with the conversion of
<ul> <li>Identifies the correct time, given the words, and vice versa</li> </ul>	Solves simple problems involving elapsed time, with the conversion of	<ul> <li>Solves difficult problems involving elapsed time, with the conversion of hours</li> </ul>
Determines elapsed clock time	hours	Solves simple problems involving miles per gallon
Tells time to the nearest guarter hour	<ul> <li>Solves simple problems involving miles per gallon</li> </ul>	Solves problems involving rates
Determines elapsed time involving whole hours, whole days, whole	<ul> <li>Solves simple problems involving miles/kilometers per hour</li> </ul>	<ul> <li>Estimates the measure of acute, right, and obtuse angles using 45 and</li> </ul>
years	<ul> <li>Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents</li> </ul>	90 degrees as referents
Tells time to the nearest 1 minute	Determines the perimeter of a figure where some sides are labeled	<ul> <li>Measures angles using a protractor</li> </ul>
Computes simple conversions among units of time (minutes, hours)	Estimates the area of rectangles using square units	<ul> <li>Determines the perimeter of a figure using non-standard units</li> </ul>
Solves simple problems involving elapsed time, with the conversion of	Determines the area of irregular shapes with partial square units	Solves problems involving the perimeter of squares, rectangles, or
hours	<ul> <li>Identifies situations where it is appropriate to calculate area</li> </ul>	triangles
Solves simple problems involving miles/kilometers per hour     Determines the perimeter of a figure where all sides are labeled	Estimates and finds volume of a figure using cubic units	Finds the perimeter of a polygon using a formula
Determines the perimeter of a figure where all sides are labeled     Determines the perimeter of a figure where some sides are labeled	Uses basic indirect methods to estimate measurements (grids for area	<ul> <li>Describes the change in perimeter when dimensions of an object are altered</li> </ul>
Determines the perimeter of a figure where some sides are labeled     Schuce simple problems involving the perimeter of agueron restorations	of irregular figures)	Determines the area of irregular shapes with partial square units
<ul> <li>Solves simple problems involving the perimeter of squares, rectangles, or triangles</li> </ul>		Estimates and finds volume of a figure using cubic units
		Identifies properties of angles



**Mathematics** 

Goal: Measurement and Data

**RIT Score Range:** 201 - 210 Statements Last Updated: Sep 23, 2013

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	Represent and Interpret Data	Represent and Interpret Data
<ul> <li>Reads and interprets data from a pictograph</li> </ul>	Solves problems using pictographs	Solves problems using pictographs
<ul> <li>Interprets a pictograph - calculation required</li> </ul>	<ul> <li>Organizes data to create simple bar graphs</li> </ul>	<ul> <li>Solves problems using bar graphs</li> </ul>
<ul> <li>Reads and interprets data from a bar graph</li> </ul>	<ul> <li>Solves problems using bar graphs</li> </ul>	Reads and interprets data in line plots
<ul> <li>Reads and interprets dual bar graphs</li> </ul>	<ul> <li>Solves problems using dual bar graphs</li> </ul>	
<ul> <li>Interprets a simple bar graph - calculation required</li> </ul>	Draws conclusions from data - bar graphs	
<ul> <li>Reads data in a line graph - no calculations</li> </ul>		
New Vocabulary: decade, deposit, longer, miles per hour	New Vocabulary: bar graph, cubic centimeter, cubic unit, larger	New Vocabulary: century, coin, how long
New Signs and Symbols: °F degrees Fahrenheit, ft feet, g gram, in. inch, lb pound, m meter/metre, min minute, yd yard	New Signs and Symbols: cm centimeter/centimetre, variable	New Signs and Symbols: \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up



**Mathematics** 

Goal: Measurement and Data

**RIT Score Range:** 211 - 220 Statements Last Updated: Sep 23, 2013

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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul> <li>Computes the value of multiple bills and coins (addition/subtraction only)</li> </ul>	Computes the value of multiple bills and coins (addition/subtraction only)	Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division)
<ul> <li>Computes with dollars and cents up to and including \$5.00 and converts to decimals (multiplication/division)</li> </ul>	Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (addition/subtraction only)	Computes the value of multiple bills and coins (multiplication/division)     Measures length to the nearest millimeter
Computes addition and subtraction on multiple-step real-world problems involving money	Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division)	Converts between inches, feet, and yards
Computes money problems with multiple operations (addition/ subtraction only)	Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division)	Converts between millimeters, centimeters, meters, and kilometers     Solves problems involving length in the customary system and     source to be used to be u
<ul> <li>Computes addition, subtraction, multiplication, and division on multiple- step, real-world problems involving money</li> </ul>	<ul> <li>Computes addition and subtraction on multiple-step real-world problems involving money</li> </ul>	converts to larger or smaller units <ul> <li>Converts between ounces and pounds</li> </ul>
Uses the appropriate unit of measure for length	Computes addition, subtraction, multiplication, and division on multiple-	<ul> <li>Converts between ounces, pounds, and tons</li> </ul>
Knows the approximate size of a yard	step, real-world problems involving money	<ul> <li>Converts between cups, pints, quarts, and gallons</li> </ul>
Measures length to the nearest centimeter	Uses the appropriate unit of measure for length	Converts within the metric system
Converts between inches and feet	<ul> <li>Knows the approximate size of a millimeter</li> </ul>	Apply dimensional analysis to simple real-world problems (capacity)
<ul> <li>Knows the approximate size of a pound</li> </ul>	Converts between inches and feet	<ul> <li>Computes 2-step conversions between units of time</li> </ul>
Knows the approximate size of a gram	<ul> <li>Converts between inches, feet, and yards</li> </ul>	Applies dimensional analysis to simple real-world problems (time)
Converts between cups and pints	Selects and uses the appropriate type and size of unit in metric system (mass)	Solves difficult problems involving elapsed time, with the conversion of hours
<ul> <li>Converts between cups, pints, and quarts</li> </ul>	Converts between cups, pints, quarts, and gallons	<ul> <li>Solves complex problems involving miles/kilometers per hour</li> </ul>
<ul> <li>Computes simple conversions among units of time (hours, days)</li> </ul>	Apply dimensional analysis to simple real-world problems (capacity)	Solves problems involving rates
<ul> <li>Computes more difficult conversions among units of time</li> </ul>	Computes more difficult conversions among units of time	Determines the perimeter of a figure using non-standard units
<ul> <li>Solves problems involving measurement of time</li> </ul>	Applies dimensional analysis to simple real-world problems (time)	<ul> <li>Solves problems involving the perimeter of squares, rectangles, or</li> </ul>
<ul> <li>Applies dimensional analysis to simple real-world problems (time)</li> </ul>	Solves difficult problems involving elapsed time, with the conversion of	triangles
Solves simple problems involving elapsed time, with the conversion of	hours	Solves problems involving the perimeter of irregular or complex shapes
hours	<ul> <li>Solves simple problems involving miles per gallon</li> </ul>	Solves problems involving perimeter and converts to larger or smaller
Solves simple problems involving miles per gallon	Solves problems involving rates	units
<ul> <li>Solves simple problems involving miles/kilometers per hour</li> <li>Estimates the measure of acute, right, and obtuse angles using 45 and</li> </ul>	Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents	Describes the change in perimeter when dimensions of an object are altered
90 degrees as referents	Measures angles using a protractor	Calculates the area of a rectangle, given labeled sides (customary
Determines the perimeter of a figure where some sides are labeled	Determines the perimeter of a figure using non-standard units	units)
Estimates the area of rectangles using square units	Solves problems involving the perimeter of squares, rectangles, or	Determines the length or width of a rectangle, given the area (metric units)
Determines the area of irregular shapes with partial square units	triangles	Determines the area of irregular shapes (customary units)
<ul> <li>Identifies situations where it is appropriate to calculate area</li> </ul>	<ul> <li>Finds the perimeter of a polygon using a formula</li> </ul>	
<ul> <li>Estimates and finds volume of a figure using cubic units</li> </ul>	Describes the change in perimeter when dimensions of an object are	Calculates area and perimeter of a rectangle (customary units)     Calculates the volume of rectangular solids
Uses basic indirect methods to estimate measurements (grids for area	altered	
of irregular figures)	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
\* 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



### Mathematics

Goal: Measurement and Data

**RIT Score Range:** 211 - 220 Statements Last Updated: Sep 23, 2013

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	Represent and Interpret Data	Represent and Interpret Data	
<ul> <li>Solves problems using pictographs</li> </ul>	<ul> <li>Solves problems using pictographs</li> </ul>	<ul> <li>Determines appropriate intervals and/or scale for a bar graph</li> </ul>	
<ul> <li>Organizes data to create simple bar graphs</li> </ul>	<ul> <li>Solves problems using bar graphs</li> </ul>		
<ul> <li>Solves problems using bar graphs</li> </ul>	<ul> <li>Reads and interprets data in line plots</li> </ul>		
<ul> <li>Solves problems using dual bar graphs</li> </ul>			
<ul> <li>Draws conclusions from data - bar graphs</li> </ul>			
New Vocabulary: bar graph, cubic centimeter, cubic unit, larger	New Vocabulary: century, coin, how long	New Vocabulary: cubic meter	
New Signs and Symbols: cm centimeter/centimetre, variable	New Signs and Symbols: \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up	<i>New Signs and Symbols:</i> h height, I length, mL milliliter/millilitre, mm millimeter/millimetre, V volume, w width	



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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
Computes the value of multiple bills and coins (addition/subtraction only)	Computes with dollars and cents over \$5.00 and converts to decimals (multiplication/division)	Measures length to the nearest millimeter     Converts between millimeters, centimeters, meters, and kilometers
Analyzes and computes 1 operation on real-world problems involving	Computes the value of multiple bills and coins (multiplication/division)	Apply dimensional analysis to simple real-world problems (length)
money over \$5.00 (addition/subtraction only)	Measures length to the nearest millimeter	Solves problems involving length in the customary system and
Analyzes and computes 1 operation on real-world problems involving money over \$5.00 (multiplication/division)	Converts between inches, feet, and yards	converts to larger or smaller units
Computes with dollars and cents over \$5.00 and converts to decimals	Converts between millimeters, centimeters, meters, and kilometers	Converts between grams and kilograms
(multiplication/division)	Solves problems involving length in the customary system and	Converts within the metric system
Computes addition and subtraction on multiple-step real-world	converts to larger or smaller units	Apply dimensional analysis to simple real-world problems (capacity)
problems involving money	Converts between ounces and pounds	Solves problems involving capacity in the metric system and converts
Computes addition, subtraction, multiplication, and division on multiple-	Converts between ounces, pounds, and tons	to larger or smaller units
step, real-world problems involving money	Converts between cups, pints, quarts, and gallons	Solves problems involving rates
Uses the appropriate unit of measure for length	Converts within the metric system	• Solves problems involving the perimeter of irregular or complex shapes
Knows the approximate size of a millimeter	Apply dimensional analysis to simple real-world problems (capacity)	Describes the change in perimeter when dimensions of an object are altered
Converts between inches and feet	Computes 2-step conversions between units of time	Identifies the formula for perimeter with a variable
Converts between inches, feet, and yards	Applies dimensional analysis to simple real-world problems (time)	Determines the area of a triangle drawn on a grid
Selects and uses the appropriate type and size of unit in metric system (mass)	Solves difficult problems involving elapsed time, with the conversion of hours	Calculates the area of a rectangle, given labeled sides (customary
<ul> <li>Converts between cups, pints, quarts, and gallons</li> </ul>	Solves complex problems involving miles/kilometers per hour	units)
Apply dimensional analysis to simple real-world problems (capacity)	Solves problems involving rates	Determines the length or width of a rectangle, given the area (metric units)
<ul> <li>Computes more difficult conversions among units of time</li> </ul>	Determines the perimeter of a figure using non-standard units	Determines the area of irregular shapes (customary units)
<ul> <li>Applies dimensional analysis to simple real-world problems (time)</li> </ul>	Solves problems involving the perimeter of squares, rectangles, or	Calculates the volume of rectangular solids
Solves difficult problems involving elapsed time, with the conversion of	triangles	Calculates the length, width, or height of a rectangular prism, given the
hours	Solves problems involving the perimeter of irregular or complex shapes	area (customary units)
Solves simple problems involving miles per gallon	Solves problems involving perimeter and converts to larger or smaller units	
<ul> <li>Solves problems involving rates</li> <li>Estimates the measure of acute, right, and obtuse angles using 45 and 90 degrees as referents</li> </ul>	Describes the change in perimeter when dimensions of an object are altered	
Measures angles using a protractor	Calculates the area of a rectangle, given labeled sides (customary	
Determines the perimeter of a figure using non-standard units	units)	
Solves problems involving the perimeter of squares, rectangles, or triangles	• Determines the length or width of a rectangle, given the area (metric units)	
Finds the perimeter of a polygon using a formula	<ul> <li>Determines the area of irregular shapes (customary units)</li> </ul>	
Describes the change in perimeter when dimensions of an object are	Calculates area and perimeter of a rectangle (customary units)	
altered	Calculates the volume of rectangular solids	
Determines the area of irregular shapes with partial square units		
Estimates and finds volume of a figure using cubic units		
<ul> <li>Identifies properties of angles</li> </ul>		



#### 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> <li>Solves problems using pictographs</li> <li>Solves problems using bar graphs</li> <li>Reads and interprets data in line plots</li> </ul>	Determines appropriate intervals and/or scale for a bar graph	<ul> <li>Determines appropriate intervals and/or scale for a bar graph</li> <li>Interprets data given in horizontal and vertical bar graphs to solve problems</li> </ul>
New Vocabulary: century, coin, how long	New Vocabulary: cubic meter	New Vocabulary: None
New Signs and Symbols: \$ dollar sign, hr hour, ↓ measurement span down, ← measurement span left, → measurement span right, ↑ measurement span up	<i>New Signs and Symbols:</i> h height, I 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



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
Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
221 - 230	231 - 240	241 - 250
Calculates area and perimeter of a rectangle (customary units)		
Calculates the volume of rectangular solids		
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
Determines appropriate intervals and/or scale for a bar graph	Determines appropriate intervals and/or scale for a bar graph	
	Interprets data given in horizontal and vertical bar graphs to solve problems	



#### 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
New Vocabulary: cubic meter	New Vocabulary: None	New Vocabulary: None
New Signs and Symbols: h height, I 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	New Signs and Symbols: × multiplication



Mathematics

Goal: Measurement and Data

**RIT Score Range:** 241 - 250 Statements Last Updated: Sep 23, 2013

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	Geometric Measurement and Problem Solving	Geometric Measurement and Problem Solving
<ul> <li>Measures length to the nearest millimeter</li> </ul>	<ul> <li>Apply dimensional analysis to simple real-world problems (length)</li> </ul>	Solves complex problems involving inscribed figures
Converts between millimeters, centimeters, meters, and kilometers	Solves problems involving capacity in the metric system and converts	Calculates the length of one side of a cube, given the volume
<ul> <li>Apply dimensional analysis to simple real-world problems (length)</li> </ul>	to larger or smaller units	(customary units)
<ul> <li>Solves problems involving length in the customary system and converts to larger or smaller units</li> </ul>	Solves problems involving area of a rectangle and converts to larger or smaller units (customary)	Uses properties of angles to solve mathematical problems
Converts between grams and kilograms	<ul> <li>Determines the area of irregular shapes (customary units)</li> </ul>	
Converts within the metric system	<ul> <li>Calculates the area of irregular shapes (metric units)</li> </ul>	
<ul> <li>Apply dimensional analysis to simple real-world problems (capacity)</li> </ul>	<ul> <li>Solves complex problems involving inscribed figures</li> </ul>	
<ul> <li>Solves problems involving capacity in the metric system and converts to larger or smaller units</li> </ul>	Uses properties of angles to solve mathematical problems	
Solves problems involving rates		
Solves problems involving the perimeter of irregular or complex shapes		
<ul> <li>Describes the change in perimeter when dimensions of an object are altered</li> </ul>		
<ul> <li>Identifies the formula for perimeter with a variable</li> </ul>		
<ul> <li>Determines the area of a triangle drawn on a grid</li> </ul>		
<ul> <li>Calculates the area of a rectangle, given labeled sides (customary units)</li> </ul>		
<ul> <li>Determines the length or width of a rectangle, given the area (metric units)</li> </ul>		
<ul> <li>Determines the area of irregular shapes (customary units)</li> </ul>		
<ul> <li>Calculates the volume of rectangular solids</li> </ul>		
<ul> <li>Calculates the length, width, or height of a rectangular prism, given the area (customary units)</li> </ul>		
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
<ul> <li>Determines appropriate intervals and/or scale for a bar graph</li> </ul>		
<ul> <li>Interprets data given in horizontal and vertical bar graphs to solve problems</li> </ul>		
New Vocabulary: None	New Vocabulary: None	New Vocabulary: None
New Signs and Symbols: ( ) order of operations, + addition, kg kilogram, P perimeter	New Signs and Symbols: × multiplication	New Signs and Symbols: None



Mathematics

Goal: Measurement and Data

**RIT Score Range:** 251 - 260 Statements Last Updated: Sep 23, 2013

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
Apply dimensional analysis to simple real-world problems (length)	<ul> <li>Solves complex problems involving inscribed figures</li> </ul>	Uses properties of angles to solve mathematical problems
Solves problems involving capacity in the metric system and converts to larger or smaller units	<ul> <li>Calculates the length of one side of a cube, given the volume (customary units)</li> </ul>	
Solves problems involving area of a rectangle and converts to larger or smaller units (customary)	Uses properties of angles to solve mathematical problems	
Determines the area of irregular shapes (customary units)		
<ul> <li>Calculates the area of irregular shapes (metric units)</li> </ul>		
<ul> <li>Solves complex problems involving inscribed figures</li> </ul>		
<ul> <li>Uses properties of angles to solve mathematical problems</li> </ul>		
Represent and Interpret Data	Represent and Interpret Data	Represent and Interpret Data
New Vocabulary: None	New Vocabulary: None	New Vocabulary: None
New Signs and Symbols: × multiplication	New Signs and Symbols: None	New Signs and Symbols: None



Mathematics

Goal: Measurement and Data

**RIT Score Range:** > 260 Statements Last Updated: Sep 23, 2013

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> <li>Solves complex problems involving inscribed figures</li> </ul>	Uses properties of angles to solve mathematical problems
<ul> <li>Calculates the length of one side of a cube, given the volume (customary units)</li> </ul>	
<ul> <li>Uses properties of angles to solve mathematical problems</li> </ul>	
Represent and Interpret Data	Represent and Interpret Data
New Vocabulary: None	New Vocabulary: None
New Signs and Symbols: None	New Signs and Symbols: None