Math: Number & Operations in Base Ten

Students:	DesCartes Statements:
Students:	**RIT 231-240:** • Divides a decimal by a decimal • Divides a whole number by a decimal • Subtracts a decimal from a whole number, horizontally
Students:	**RIT 221-230:** • Adds decimals through the hundred-thousandths place • Adds decimals to the hundredths place in horizontal format (not same number of digits) • Divides a 4-digit number by a 2-digit number • Divides a decimal by a decimal • Multiplies a decimal by a decimal (factors to hundredths) • Multiplies a decimal by a decimal (factors to thousandths) • Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) • Multiplies multiple-digit numbers • Subtracts a decimal from a whole number, horizontally • Subtracts decimals to the hundredths place (not same number of digits)
Students:	**RIT 211-220:** • Adds decimals through the hundred-thousandths place • Adds decimals to the hundredths place in horizontal format (not same number of digits) • Adds decimals to the thousandths place horizontally with and without regrouping • Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder • Divides a 3-digit number by a 2-digit number • Divides a 4-digit number by a 1-digit number with no remainder • Divides a 4-digit number by a 2-digit number • Divides decimal by a whole number • Instantly recalls basic multiplication and division facts in a table • Multiplies a 2-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 3-digit number • Multiplies a 4- or more digit number by multiples of 100 or 1000 • Multiplies a decimal by a decimal (factors to hundredths) • Multiplies a decimal by a decimal, vertical form (factors to tenths or hundredths) • Multiplies multiple-digit numbers • Performs mental computation with multiplication • Subtracts numbers with 5 digits or more with regrouping • Uses multiplication strategies to explain computation (e.g., doubles, 9-patterns, decomposing, partial products) • Uses rounding to estimate answers to difficult multiplication and division problems (whole numbers only)
Students:	**RIT 201-210:** • Adds decimals to the thousandths place horizontally with and without regrouping • Adds multiple-digit numbers with sums under 1000 • Adds multiple-digit numbers, with regrouping, with sums over 1000 • Divides a 2-digit number by a 1-digit number with no remainder • Divides a 2-digit number or a 3-digit number by a 1-digit number with a remainder • Divides a 3-digit number by a 1-digit number with no remainder • Divides a 3-digit number by a multiple of 10 • Divides a 4-digit number by a 1-digit number with no remainder • Divides a 4-digit number by a 2-digit number • Divides decimal by a whole number • Instantly recalls basic multiplication and division facts in a table • Multiplies a 2- or 3-digit number by multiples of 10 or 100 • Multiplies a 2-digit number by a 1-digit number with regrouping • Multiplies a 2-digit number by a 2-digit number with regrouping • Multiplies a 3- or 4-digit number by a 1-digit number • Multiplies a 3-digit number by a 2-digit number with regrouping • Multiplies a 3-digit number by a 3-digit number • Multiplies a decimal by whole number • Multiplies multiple 1-digit numbers

- Performs mental computation with more than 4 addends
- Performs mental computation with multiplication
- Subtracts 3- or 4-digit numbers with regrouping
- Subtracts decimals to the hundredths place (same number of digits) with regrouping
- Subtracts numbers with 5 digits or more with regrouping
- Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)

Students:	RIT 191-200:
	• Adds decimals to the hundredths place (same number of digits)
	• Adds decimals to the hundredths place in vertical format (not same number of digits)
	• Adds decimals to the thousandths place vertically with and without regrouping
	• Adds multiple-digit numbers with sums under 1000
	• Adds multiple-digit numbers, with regrouping, with sums over 1000
	• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000
	• Divides a 2-digit number by a 1-digit number with no remainder
	• Multiplies a 2- or 3-digit number by a 1-digit number with no regrouping
	• Multiplies a 2-digit number by a 1-digit number with regrouping
	• Multiplies a 2-digit number by a 2-digit number with no regrouping
	• Multiplies a 3- or 4-digit number by a 1-digit number
	• Multiplies a decimal by whole number
	• Performs mental computation with multiplication
	• Performs mental subtraction with numbers under 1000
	• Subtracts 1-digit number from a 2-digit number with regrouping
	• Subtracts 3- or 4-digit numbers with regrouping
	• Subtracts a 2-digit number from a 2-digit number, with regrouping
	• Subtracts a 2-digit number from a 3-digit number with a single regrouping
	• Subtracts decimals to the hundredths place (same number of digits) with regrouping
	• Subtracts multiple-digit numbers with no regrouping
	• Uses rounding to estimate answers to addition and subtraction problems (whole numbers only)
	• Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)

Students:	RIT 181-190:
	• Adds 3-digit numbers, with regrouping, with sums under 1000
	• Adds decimals to the hundredths place (same number of digits)
	• Adds multiple-digit numbers, with regrouping, with sums over 1000
	• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000
	• Adds two or three 2-digit number with regrouping
	• Compares whole numbers through 9999
	• Identifies the number that is "1 less than" a given number
	• Multiplies a 2-digit number by a 1-digit number with regrouping
	• Multiplies a 2-digit number by a 2-digit number with no regrouping
	• Performs mental computation with 2, 3, or 4 addends
	• Performs mental subtraction with numbers under 1000
	• Subtracts 2- and/or 3-digit numbers with no regrouping
	• Subtracts 3- or 4-digit numbers with regrouping
	• Subtracts a 2-digit number from a 2-digit number, with regrouping
	• Subtracts multiple-digit numbers with no regrouping
	• Uses models to calculate differences through 100 (whole numbers)
	• Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)

Students:	RIT 171-180:
	• Adds 1- and/or 2-digit numbers with sums under 100
	• Adds 3-digit numbers with no regrouping
	• Adds 3-digit numbers, with regrouping, with sums under 1000
	• Adds two or three 2-digit number with regrouping
	• Subtracts 2- and/or 3-digit numbers with no regrouping
	• Subtracts a 2-digit number from a 2-digit number, with no regrouping
	• Uses models to calculate whole number sums through 999
	• Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)

Students:	**RIT 161-170:**

- Adds 1-digit to multiple-digit number with no regrouping
- Adds 1-digit to multiple-digit number with regrouping
- Adds 2-digit numbers with no regrouping
- Adds multiple 1-digit numbers
- Subtracts a 2-digit number from a 2-digit number, with no regrouping
- Subtracts two 1-digit numbers horizontally
- Uses models to calculate whole number sums through 99
- Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)

Students:

RIT Below 161:

- Adds 1-digit to multiple-digit number with no regrouping
- Adds 1-digit to multiple-digit number with regrouping
- Uses models to calculate whole number sums through 99