

Math 6+: Algebraic Concepts Expressions

Numerical Expressions

Students	Learning Continuum Statements:
Students:	RIT 171-180: Evaluates numerical expressions involving addition and subtraction with whole numbers and parentheses
Students:	RIT 181-190: Evaluates numerical expressions involving addition and subtraction with whole numbers and parentheses
Students:	RIT 191-200: - Evaluates numerical expressions involving addition and subtraction with whole numbers and parentheses - Evaluates numerical expressions involving multiple operations with whole numbers and parentheses
Students:	RIT 201-210: - Evaluates numerical expressions involving multiple operations with whole numbers and parentheses - Represents descriptions of calculations with numerical expressions or equations that include parentheses
Students:	RIT 211-220: - Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving both positive and negative rational numbers - Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving positive rational numbers - Evaluates numerical expressions involving addition and subtraction with whole numbers, no parentheses - Evaluates numerical expressions involving multiple operations with whole numbers and nested grouping symbols - Evaluates numerical expressions involving multiple operations with whole numbers and parentheses - Evaluates numerical expressions involving multiple operations with whole numbers, no parenthesis - Represents descriptions of calculations with numerical expressions or equations that include parentheses - Represents real-world problems involving the addition and subtraction of integers with numerical expressions

- Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Students:

RIT 221-230:

- Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving positive rational numbers
- Applies the order of operations, with grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers
- Applies the order of operations, without grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers
- Applies the order of operations, without grouping symbols or whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Evaluates numerical expressions involving multiple operations with whole numbers and nested grouping symbols
- Evaluates numerical expressions involving multiple operations with whole numbers and parentheses
- Evaluates numerical expressions involving multiple operations with whole numbers, no parenthesis
- Represents descriptions of calculations with numerical expressions or equations that include parentheses
- Rewrites the sum of two whole numbers as a product of a common factor and the sum of two whole numbers
- Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Students:

RIT 231-240:

- Applies the order of operations, with grouping symbols and excluding exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Applies the order of operations, with grouping symbols and whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Applies the order of operations, with grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers
- Applies the order of operations, without grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers
- Applies the order of operations, without grouping symbols or whole-number exponents, to simplify numerical expressions involving positive rational numbers
- Describes a situation that can be represented by a given numerical equation involving positive and negative numbers
- Evaluates numerical expressions involving multiple operations with whole numbers and nested grouping symbols
- Evaluates numerical expressions involving multiple operations with whole numbers and parentheses
- Evaluates numerical expressions involving multiple operations with whole numbers, no parenthesis
- Rewrites the sum of two whole numbers as a product of a common factor and the sum of two whole numbers

- Uses properties of exponents to simplify numerical expressions involving negative integer exponents, including zero
- Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Students:

RIT 241-250:

- Applies the order of operations, with grouping symbols and whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Applies the order of operations, with grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers
- Applies the order of operations, with whole-number exponents and excluding grouping symbols, to simplify numerical expressions involving both positive and negative rational numbers
- Applies the order of operations, without grouping symbols and with whole-number exponents, to simplify numerical expressions consisting of positive rational numbers
- Applies the order of operations, without grouping symbols or whole-number exponents, to simplify numerical expressions involving positive rational numbers
- Evaluates numerical expressions involving multiple operations with whole numbers and nested grouping symbols
- Rewrites the sum of two whole numbers as a product of a common factor and the sum of two whole numbers
- Uses properties of exponents to simplify numerical expressions involving negative integer exponents, including zero
- Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Students:

RIT 251-260:

- Applies the order of operations, with grouping symbols and whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Applies the order of operations, with whole-number exponents and excluding grouping symbols, to simplify numerical expressions involving both positive and negative rational numbers
- Represents descriptions of exponential growth with numerical expressions
- Rewrites the sum of two whole numbers as a product of a common factor and the sum of two whole numbers
- Uses properties of exponents to simplify numerical expressions involving negative integer exponents, including zero
- Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

Students:

RIT 261-270:

- Applies the order of operations, with grouping symbols and whole-number exponents, to simplify numerical expressions involving both positive and negative rational numbers
- Uses properties of exponents to simplify numerical expressions involving negative integer exponents, including zero
- Uses properties of exponents to simplify numerical expressions involving whole-number exponents only

- Uses properties of logarithms to transform logarithmic expressions

Students:**RIT 271-280:**

- Uses properties of exponents to simplify numerical expressions involving negative integer exponents, including zero
- Uses properties of logarithms to transform logarithmic expressions

Students:**RIT 281-290:**

- Uses properties of logarithms to transform logarithmic expressions
-