Math 6+: Computation and Problem Solving
Whole Number Operations

Properties and Relationships of Operations

Students	Learning Continuum Statements:
Students:	**RIT 151-160:** • Represents arrays with repeated addition expressions or equations
Students:	**RIT 161-170:** • Represents arrays with repeated addition expressions or equations
Students:	**RIT 171-180:** • Applies the commutative property of multiplication to whole numbers • Identifies the missing equation in whole-number addition and subtraction fact families • Represents arrays with repeated addition expressions or equations • Represents equal-groups multiplication situations with repeated addition expressions or equations, given pictures • Understands the inverse relationship between addition and subtraction, whole numbers within 20
Students:	**RIT 181-190:** • Applies the associative property of addition to whole numbers • Applies the commutative property of addition to whole numbers • Applies the zero property of multiplication to whole numbers • Identifies the missing equation in whole-number addition and subtraction fact families • Represents arrays with repeated addition expressions or equations • Represents multiplication as repeated addition • Represents multiplication as skip-counting • Understands the inverse relationship between addition and subtraction, whole numbers within 20 • Understands the inverse relationship between multiplication and division
Students:	**RIT 191-200:** • Applies the associative property of multiplication to whole numbers • Applies the commutative property of addition to whole numbers • Applies the zero property of multiplication to whole numbers • Represents division as repeated subtraction • Represents multiplication as repeated addition • Represents multiplication as skip-counting • Represents multiplication situations with arrays • Understands the inverse relationship between addition and subtraction, whole numbers within 20 • Understands the inverse relationship between multiplication and division

Students:	**RIT 201-210:** • Applies the associative property of multiplication to whole numbers • Applies the commutative property of addition to whole numbers • Applies the zero property of multiplication to whole numbers • Decomposes numbers to simplify whole-number multiplication • Represents division as repeated subtraction • Represents multiplication as repeated addition • Understands the inverse relationship between multiplication and division
Students:	**RIT 211-220:** • Applies the associative property of multiplication to whole numbers • Applies the commutative property of addition to whole numbers • Applies the distributive property of multiplication to whole numbers • Applies the zero property of multiplication to whole numbers • Decomposes numbers to simplify whole-number multiplication • Understands the inverse relationship between addition and subtraction, whole numbers within 1,000 • Understands the inverse relationship between multiplication and division
Students:	**RIT 221-230:** • Applies the distributive property of multiplication to whole numbers • Decomposes numbers to simplify whole-number multiplication • Understands the inverse relationship between addition and subtraction, whole numbers within 1,000
Students:	**RIT 231-240:** • Applies the distributive property of multiplication to whole numbers