Properties and Relationships of Operations

Students	Learning Continuum Statements:
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 Understands the inverse relationship between addition and subtraction, whole numbers within 20
Students:	 RIT 181-190: Applies the zero property of multiplication to whole numbers Identifies the missing equation in whole-number addition and subtraction fact families 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 Represents division as repeated subtraction Represents multiplication as repeated addition Represents multiplication as skip-counting Represents subtraction equations with whole numbers as part-unknown addition equations Understands multiplication as a comparison of sizes Understands multiplication as many groups of equal size 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 Decomposes numbers to simplify whole-number multiplication Represents division as repeated subtraction Represents division equations with whole numbers as part-unknown multiplication equations Represents multiplication as repeated addition Represents subtraction equations with whole numbers as part-unknown addition equations Understands division as equal sharing Understands multiplication as a comparison of sizes Understands multiplication as many groups of equal size Understands the inverse relationship between multiplication and division
Students:	 RIT 211-220: Applies the distributive property of multiplication to whole numbers Decomposes numbers to simplify whole-number multiplication Identifies the missing value in an equation to show that a number and its opposite have a sum of 0 Represents division equations with whole numbers as part-unknown multiplication equations Understands division as equal sharing Understands multiplication as a comparison of sizes Understands the inverse relationship between multiplication and division
Students:	 RIT 221-230: Applies the distributive property of multiplication to whole numbers

Applies the distributive property of multiplication to whole numbers