

Grade 5 Mathematics Concepts and Topics

Week	Marking Period 1	Marking Period 2	Marking Period 3	Marking Period 4
1	<ul style="list-style-type: none"> • Multiplication: standard algorithm (multi-digit whole numbers) 	<ul style="list-style-type: none"> • Division (up to 4-digit ÷ 2-digit multiple of ten): equations, rectangular arrays, area models, place value strategies, properties of operations 	<ul style="list-style-type: none"> • Multiplication of a fraction by a fraction (both factors <1): problem solving, area models • Multiplication as resizing 	<ul style="list-style-type: none"> • Multiplication fluency (multi-digit whole numbers): standard algorithm • Multiplication of decimals (to hundredths): place models, drawings, written method, place value strategies, properties of operations
2	<ul style="list-style-type: none"> • Volume (right rectangular prisms): counting unit cubes (cubic cm, cubic in, cubic ft, & improvised units), relationship to multiplication, problem solving 	<ul style="list-style-type: none"> • Division (up to 4-digit ÷ 2-digit): equations, rectangular arrays, area models, place value strategies, properties of operations 	<ul style="list-style-type: none"> • Multiplication of a fraction by a fraction (one factor >1): problem solving, area models • Multiplication as resizing 	<ul style="list-style-type: none"> • Division of decimals (to hundredths): place value strategies, properties of operations
3	<ul style="list-style-type: none"> • Volume (right rectangular prisms): formulas for rectangular prisms, additive properties, problem solving • Numerical expressions with parentheses, brackets, braces: evaluating 	<ul style="list-style-type: none"> • Division (up to 4-digit ÷ 2-digit): equations, place value strategies, properties of operations 	<ul style="list-style-type: none"> • Multiplication of a fraction by a fraction (both factors >1): problem solving, area models • Multiplication as resizing 	<ul style="list-style-type: none"> • Division of decimals (to hundredths): place value strategies, properties of operations • Word problems (multi-step): conversion of measurement units (within a given measurement system)
4	<ul style="list-style-type: none"> • Numerical expressions: evaluating, interpreting without evaluating 	<ul style="list-style-type: none"> • Addition & subtraction of fractions (related denominators, including 2, 4, & 8; 3 & 6): equivalent fractions as a strategy, word problems, estimation & reasonableness of answers 	<ul style="list-style-type: none"> • Multiplication of a fraction by a fraction (both factors >1, including mixed numbers): problem solving, area models • Multiplication as resizing 	<ul style="list-style-type: none"> • Addition, subtraction, multiplication, division of decimals (to hundredths): place value strategies, properties of operations • Word problems (multi-step): conversion of measurement units (within a given measurement system)
5	<ul style="list-style-type: none"> • Place value relationships among places in the base ten system • Place value patterns: multiplication or division by powers of 10, whole number exponents • Decimals (thousandths): read & write 	<ul style="list-style-type: none"> • Addition & subtraction of fractions (denominators with a common factor, including 6 & 9): equivalent fractions as a strategy, word problems, estimation & reasonableness of answers 	<ul style="list-style-type: none"> • Area: rectangles with fractional side lengths • Multiplication as resizing 	<ul style="list-style-type: none"> • Ordered pairs on a coordinate plane
6	<ul style="list-style-type: none"> • Comparison of decimals (to thousandths) • Rounding decimals 	<ul style="list-style-type: none"> • Addition & subtraction of fractions (1-digit denominators with no common factors, including 3 & 4): equivalent fractions as a strategy, word problems, estimations & reasonableness of answers 	<ul style="list-style-type: none"> • Multiplication of a whole number and a fraction (partitive, fraction products) • Multiplication as resizing 	<ul style="list-style-type: none"> • Ordered pairs on a coordinate plane • Numerical patterns using two given rules: relationships between corresponding terms
7	<ul style="list-style-type: none"> • Addition & subtraction of decimals (tenths or hundredths as addends): concrete models, drawings, written method, place value strategies, properties of operations, relationship between addition & subtraction 	<ul style="list-style-type: none"> • Addition & subtraction of fractions: equivalent fractions as a strategy, word problems, estimation & reasonableness of answers 	<ul style="list-style-type: none"> • Division of a unit fraction by a non-zero whole number or a whole number by a unit fraction: visual fraction models, relationship between multiplication and division, equations, word problems 	<ul style="list-style-type: none"> • Classification of two-dimensional figures: properties
8	<ul style="list-style-type: none"> • Addition & subtraction of decimals (tenths & hundredths as addends): concrete models, drawings, written method, place value strategies, properties of operations, relationship between addition & subtraction 	<ul style="list-style-type: none"> • Multiplication of a whole number and a fraction (partitive, whole number products): problem solving, length models, number line models, set models • Multiplication as resizing 	<ul style="list-style-type: none"> • Division of a unit fraction by a non-zero whole number or a whole number by a unit fraction: visual fraction models, relationship between multiplication and division, equations, word problems 	<ul style="list-style-type: none"> • Classification of two-dimensional figures: properties
9	<ul style="list-style-type: none"> • Division (2- or 3-digit ÷ 2-digit multiple of ten): equations, rectangular arrays, area models, place value strategies, properties of operations 	<ul style="list-style-type: none"> • Multiplication of a fraction by a fraction (numerator of one factor is a multiple of the denominator of the other factor): problem solving • Multiplication as resizing • Multiplication fluency: standard algorithm 	<ul style="list-style-type: none"> • Fractions as division of numerator by denominator: visual fraction models, equations, word problems • Measurement data: line plots (12, 14, 18 of a unit) 	<ul style="list-style-type: none"> • Classification of two-dimensional figures: properties