

Fifth Grade Major, Supporting and Additional Standards by Cluster

Write and interpret numerical expressions.			
5.OA.1	DOK 1	Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	Additional
5.OA.2	DOK 1,2	Write simple expressions that record calculations with numbers, interpret expressions without evaluating them.	Additional
Analyze patterns and relationships			
5.OA.3	DOK 1,2	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs.	Additional
Understand the place value system.			
Ⓢ5.NBT.1	DOK 1	Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	Major
Ⓢ5.NBT.2	DOK 1,2	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	Major
Ⓢ5.NBT.3	DOK 1	Read, write, and compare decimals to thousandths.	Major
Ⓢ5.NBT.4	DOK 1	Use place value understanding to round decimals.	Major
Perform operations with multi-digit whole numbers and decimals to the hundredths.			
Ⓢ5.NBT.5	DOK 1	Fluently multiply multi-digit whole numbers using the standard algorithm.	Major
Ⓢ5.NBT.6	DOK 1,2	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies	Major
Ⓢ5.NBT.7	DOK 1,2,3	Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	Major
Use equivalent fractions as a strategy to add and subtract fractions.			
Ⓢ5.NF.1	DOK 1	Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	Major
Ⓢ5.NF.2	DOK 1,2,3	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	Major
Apply and extend previous understandings of multiplication and division to multiply and divide fractions.			

Ⓢ5.NF.3	DOK 1,2	Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers	Major
Ⓢ5.NF.4	DOK 1,2	Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.	Major
Ⓢ5.NF.5	DOK 1,2,3	Interpret multiplication as scaling (resizing)	Major
Ⓢ5.NF.6	DOK 1,2	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	Major
Ⓢ5.NF.7	DOK 1,2	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.	Major
Convert like measurements within a given measurement system.			
5.MD.1	DOK 1,2	Convert among different-sized standard measurement units within a given measurement system and use these conversions in solving multi-step, real world problems.	Supporting
Represent and interpret data			
5.MD.2	DOK 1,2	Make a line plot to display a data set of measurements in fractions of a unit ($1/2, 1/4, 1/8$). Use operations on fractions, solve problems involving information presented in line plots.	Supporting
Geometric measurement: understand concepts of volume and relate volume to multiplication and addition.			
Ⓢ5.MD.3	DOK 1	Recognize volume as an attribute of solid figures and understand concepts of volume measurement.	Major
Ⓢ5.MD.4	DOK 1,2	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	Major
Ⓢ5.MD.5	DOK 1,2	Relate volume to the operations of multiplication and addition and solve real world problems involving volume.	Major
Graph points on the coordinate plane to solve real world problems.			
5.G.1	DOK 1	Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.	Additional
5.G.2	DOK 1,2	Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	Additional
Classify two-dimensional figures into categories based on their properties.			
5.G.3	DOK 1,2	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	Additional
5.G.4	DOK 1,2	Classify two-dimensional figures in a hierarchy based on properties.	Additional

Total Priority Standards: 17