



5th Grade Math Pacing Guide 19-20

4.0 Target	3.0 Target	2.0 Target	Trimester & Unit
Operations and Algebraic Thinking			
Evaluate complex expressions or inequalities that include parentheses, brackets and/or variables	5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols	Use parentheses, brackets, or braces in simple numerical expressions, and evaluate expressions with these symbols	Trimester 1 Unit 1
Given a simple expression, create a real-world situation that matches it	5.OA.2 Write simple expressions to record calculations with numbers, and interpret numerical expressions without evaluating them	Inconsistently writes simple expressions to record calculations with numbers, and interpret numerical expressions without evaluating them.	Trimester 1 Unit 1
Use the relationship between x and y coordinates to generate a multiple operation expression that represents the rule for the coordinate pairs.	5.OA.3 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 on a coordinate plane	Generate two numerical patterns using two given rules. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	Trimester 3 Unit 6
Number and Operations in Base Ten			
Not Applicable	5.NBT.2 Explain patterns in the number of zeros in the answer and placement of the decimal point when multiplying and dividing by a power of ten	Solve problems involving multiplication and division of powers of ten when written in standard notation	Trimester 3 Unit 7
Not Applicable	5.NBT.3a Read and write decimals to thousandths using base-ten numerals, number names, and expanded form	Inconsistently read or write decimals to thousandths using base-ten numerals, number names, or expanded form	Trimester 2 Unit 3
Not Applicable	5.NBT.3b Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons	Inconsistently compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons	Trimester 2 Unit 3
Not Applicable	5.NBT.4 Use place value understanding to round decimals to any place	Inconsistently use place value understanding to round decimals to any place	Trimester 2 Unit 3
Not Applicable	5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm (traditional)	Fluently multiply multi-digit by single-digit whole numbers using a standard algorithm (area model or partial products)	Trimester 2 Unit 4
Not Applicable	5.NBT.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, or the relationship between multiplication and division. Illustrate and explain the calculations by using equations, rectangular arrays, or area models	Find whole-number quotients of whole numbers with up to four-digit dividends and one-digit divisors, and illustrate the calculations	Trimester 3 Unit 7
Find the missing digits in an addition/subtraction of decimals problem and explain the strategy used	5.NBT.7.1 Add and subtract decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used	Add or subtract decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used	Trimester 2 Unit 3
Solve complex real world problems involving decimal operations with multiple questions, including a picture/model, equation, and written justification of their reasoning	5.NBT.7.2 Multiply and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, or the relationship between multiplication and division and subtraction; relate the strategy to a written method and explain the reasoning used	Multiply or divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, or the relationship between multiplication and division and subtraction; relate the strategy to a written method and explain the reasoning used	Trimester 3 Unit 7
Number and Operations: Fractions			
Find 3 mixed numbers with different denominators, that add up to the sum of a given value. The 3 different denominators must not be the same as the denominator of the sum, and all fractions must be in simplest form. Justify your answer	5.NF.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	Add or subtract fractions with unlike denominators	Trimester 1 Unit 2
Not Applicable	5.NF.2 Solve story problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers	Solve story problems involving addition or subtraction of fractions referring to the same whole, including cases of unlike denominators. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers	Trimester 1 Unit 2
Apply understanding of area models and the distributive property to multiply a mixed number by a fraction.	5.NF.4a Use models and strategies to multiply a fraction or a whole number by a fraction	Use models and strategies to multiply a whole number by a unit fraction	Trimester 2 Unit 5
Solve multi-step real world problems involving division of fractions and mixed numbers by using visual fraction models and/or equations to represent the problem	5.NF.7c Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions	Solve problems involving division of unit fractions by non-zero whole numbers or division of whole numbers by unit fractions	Trimester 2 Unit 5
Measurement and Data			

Decompose a composite figure composed of cubes and record more than one equation to solve for the volume	5.MD.5a Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes	A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units	Trimester 1 Unit 1
Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems	5.MD.5b Apply the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems	Inconsistently applies the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems	Trimester 3 Unit 6
Geometry			
Using all four quadrants of a coordinate plane, analyze and interpret information from the ordered pairs	5.G.1 Locates a point on a coordinate plane based on its ordered pair of coordinates. Identifies the x - and y -coordinates of a given point in a coordinate plane	Inconsistently locates a point on a coordinate plane based on its ordered pair of coordinates. Inconsistently identifies the x - and y -coordinates of a given point in a coordinate plane	Trimester 3 Unit 6
Not Applicable	5.G.4 Classify two-dimensional figures in a hierarchy based on properties	Classify two-dimensional figures based on attributes	Trimester 3 Unit 6