



## 23-24 Grade 5 Math Pacing Guide

4.0 Target	3.0 Target	T1	T2	T3
<b>Operations and Algebraic Thinking</b>				
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	X		
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	Write simple expressions to record calculations with numbers, and interpret numerical expressions without evaluating them.	X		
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	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.			X
<b>Number and Operations in Base Ten</b>				
Does Not Extend	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.			X
Does Not Extend	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form.		X	
Does Not Extend	Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.		X	
Does Not Extend	Use place value understanding to round decimals to any place.		X	
Does Not Extend	Fluently multiply multi-digit whole numbers using the standard algorithm (traditional) .		X	
Does Not Extend	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. Illustrate and explain your mathematical reasoning using a visual model.			X
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	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.		X	
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	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.			X
<b>Number and Operations: Fractions</b>				
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	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.	X		
Does Not Extend	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.	X		
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	Use models and strategies to multiply a fraction or a whole number by a fraction.			X
Does Not Extend	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.			X
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions.			X
<b>Measurement and Data</b>				
Does Not Extend	Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5cm to 0.05m), and use these conversions in solving multi-step, real world problems.		X	
Does Not Extend	Make a line plot to display a data set of measurements in fractions of a unit ( $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{3}{4}$ ). Use operations on fractions for this grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.		X	
Students have multiple ways to demonstrate extension. For more information or to see a scoring rubric, contact your child's teacher.	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.			X
<b>Geometry</b>				
Does Not Extend	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.			X
Does Not Extend	Classify two-dimensional figures in a hierarchy based on properties (exclusive trapezoid definition only).			X