

Standards Plus High Impact Standards – Mathematics – Grade 5

Domain	Lesson	Focus	Digital Lesson #	Standard(s)	
Number and Operations in Base Ten	1	Multiply Whole Numbers	17	5.NBT.5: Fluently multiply multi-digit whole numbers using the standard algorithm.	
	2	Multiply Whole Numbers	18		
	3	Multiply Whole Numbers	19		
	4	Multiply Whole Numbers	20		
	A1	Assessment - Multiply Whole Numbers	A5		
	5	Divide Whole Numbers	21	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, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	
	6	Divide Whole Numbers	22		
	7	Divide Whole Numbers	23		
	8	Divide Whole Numbers	24		
	A2	Assessment-Divide Whole Numbers	A6		
		Performance Lesson – Number and Operations in Base Ten: <i>Multiplication and Division</i>			
	9	Multiply Decimals	29	5.NBT.7: 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.	
	10	Multiply Decimals	30		
	11	Multiply Decimals	31		
	12	Multiply Decimals	32		
	A3	Assessment - Multiply Decimals	A8		
	13	Divide a Decimal by a Whole Number	37	5.NBT.7: 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.	
	14	Divide a Decimal by a Whole Number	38		
	15	Divide a Whole Number by a Decimal	39		
16	Divide Decimals to Hundredths	40			
A4	Assessment - Division with Decimals	A10			
Number and Operations Fractions	1	Add Fractions	1	5.NF.1: Add and subtract fractions with unlike denominators by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	
	2	Add Fractions in Context	2	5.NF.2: see below	
	3	Add Mixed Numbers	3	5.NF.1	
	4	Add Mixed Numbers in Context	4	5.NF.2	
	A1	Assessment – Add Fractions and Mixed Numbers	A1	5.NF.1, 5.NF.2	
	5	Subtract Fractions	5	5.NF.1	
	6	Subtract Fractions in Context	6	5.NF.2	
	7	Subtract Mixed Numbers	7	5.NF.1	
	8	Subtract Mixed Numbers in Context	8	5.NF.2	
	A2	Assessment – Subtract Fractions and Mixed Numbers	A2	5.NF.1, 5.NF.2	

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Number and Operations Fractions	9	Interpret Fractions as Division	13	5.NF.3: 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, e.g., by using visual fraction models or equations to represent the problem.	
	10	Interpret Fractions as Division	14		
	11	Solve Problems with Fractions	15		
	12	Solve Problems with Mixed Numbers	16		
	A3	Assessment – Solving Fraction Problems	A4		
	Performance Lesson – Number and Operations – Fractions: <i>Add & Subtract Fractions and Mixed Numbers</i>				
	13	Multiply Fractions	17	5.NF.4: Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. 5.NF.4a: Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	
	14	Multiply Fractions	18		
	15	Multiply Fractions	19		
	16	Multiply Fractions	20		
	A4	Assessment - Multiply Fractions	A5		
	17	Interpret Multiplication as Scaling	25	5.NF.5: Interpret multiplication as scaling (resizing), by: 5.NF.5a: Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	
	18	Interpret Multiplication as Scaling	26		
	19	Interpret Multiplication as Scaling	27	5.NF.5, 5.NF.5b: Explain why multiplying a given number by a fraction greater than 1 results in a product greater than the given number; explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relate the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying a/b by 1.	
	20	Interpret Multiplication as Scaling	28		
	A5	Assessment-Interpret Multiplication as Scaling	A7		
	21	Fraction Multiplication Problems	29	5.NF.6: Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	
	22	Fraction Multiplication Problems	30		
	23	Fraction Multiplication Problems	31		
	24	Fraction Multiplication Problems	32		
	A6	Assessment-Fraction Multiplication Problems	A8		
	Performance Lesson – Number and Operations – Fractions: <i>Multiplying Fractions</i>				
	25	Divide a Fraction by a Whole Number	33	5.NF.7: Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. 5.NF.7a: Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.	
	26	Divide a Fraction by a Whole Number	34		
	27	Divide a Fraction by a Whole Number	35		
	28	Divide a Fraction by a Whole Number	36		
	A7	Assessment-Divide a Fraction by a Whole Number	A9		

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Domain	Lesson	Focus	Digital Lesson #	Standard(s)
Number and Operations Fractions	29	Divide a Whole Number by a Fraction	37	5.NF.7b: Interpret division of a whole number by a unit fraction, and compute such quotients.
	30	Divide a Whole Number by a Fraction	38	
	31	Divide a Whole Number by a Fraction	39	
	32	Divide a Whole Number by a Fraction	40	
	A8	Assessment-Divide a Whole Number by a Fraction	A10	
Measurement and Data	1	Measure with Cubic Units	9	5.MD.3: Recognize volume as an attribute of solid figures and understand concepts of volume measurement.
	2	Measure with Cubic Units	10	
	3	Measure with Cubic Units	11	5.MD.4: Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.
	4	Measure with Cubic Units	12	
	A1	Assessment - Measure with Cubic Units	A3	5.MD.3, 5.MD.4
	5	Find Volume by Multiplying Edge Lengths	13	5.MD.5: Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving 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, e.g., to represent the associative property of multiplication.
	6	Find Volume by Multiplying Edge Lengths	14	
	7	Find Volume by Multiplying Edge Lengths	15	
	8	Find Volume by Multiplying Edge Lengths	16	
	A2	Assessment-Find Volume by Multiplying Edge Lengths	A4	