Fifth Grade   Quarter 2 (November 13- January 25)   Math Matrix

Unit Name	Investigations	Sessions	Math Main Ideas	Assessments
UNIT 4 – HOW MANY PEOPLE AND TEAMS? *Multiplication and Division 2*	1 - 3	17		Checklists, Games, Quizzes and Unit Test
5.NBT.A.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. 5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.	1 – MULTIPLICATION STRATEGIES	1.1-1.5	Solving multiplication problems fluently	A28-29 Quiz 1 Session 1.4 A30 Solving a Multiplication Problem in Two Ways Session 1.5
5.NBT.B.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.	2 – DIVISION STRATEGIES AND NOTATION	2.1-2.7	Solving division problems efficiently	A32-33 Quiz 2 Session 2.6 A34 701÷27 Session 2.7
5.NF.A.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. For example, $2/3 + 5/4 = 8/12 + 15/12 = 23/12$. (In general, a/b + c/d = (ad + bc/bd.) 5.NF.A.2 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.	3- USING THE OPERATIONS	3.1-3.5	Solving multiplication problems fluently Solving division problems efficiently	A36 Multiplying and Dividing Large Numbers Session 3.5 **UNIT 4 TEST**