

5th: Unit 8- Multiplication and Division of Greater Whole Numbers

**Math Investigations Book: How Many People? How Many Teams?
Standards for Grade 5**

Unit	<p><u>UNIT 1</u>= Place Value, Addition & Subtraction of Whole Numbers <u>UNIT 2</u>= Addition and Subtraction of Fractions <u>UNIT 3</u>= Operations with Decimals and Place Value <u>UNIT 4</u>= Volume <u>UNIT 5</u>= Multiplication and Division of Whole Numbers <u>UNIT 6</u>= Multiplication and Division of Fractions <u>UNIT 7</u>= Names and Properties of Shapes <u>UNIT 8</u>= Multiplication and Division of Greater Whole Numbers <u>UNIT 9</u>= Shape and Number Patterns</p>
8,5,9	<p>5.OA.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. <i>For example, express the calculation "add 8 and 7, then multiply by 2" as $2 \times (8 + 7)$. Recognize that $3 \times (18,932 + 921)$ is three times as large as $18,932 + 921$, without having to calculate the indicated sum or product.</i></p>
8,3,4,5	<p>5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm.</p>
8,3,4,5	<p>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.</p>
8,3	<p>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.</p>
8,2,6	<p>5.NF.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. <i>For example, recognize an incorrect result $2/5 + 1/2 = 3/7$, by observing that $3/7 < 1/2$.</i></p>