MATHEMATICS

Number Sense

Grade 6		
1. Students compare and order fractions, decimals, and mixed numbers. They solve problems involving fractions, ratios, proportions, and percentages.	2. Students calculate and solve problems involving addition, subtraction, multiplication and division of rational numbers.	
6.1.1 Compare and order positive and negative fractions, decimals, and mixed numbers and place them on a number line	subtraction, multiplication and division of fractions and explain why a particular operation was used for a given situation	
6.1.2 Interpret and use ratios in different contexts (e.g., batting averages, miles per hour) to show the relative sizes of two quantities using appropriate notations (a/b, a to b, a:b)	6.2.2 Explain the meaning of multiplication and division of fractions and perform the calculations (e.g., $5/8$ divided by $15/16 = 5/8 \times 16/15 = 2/3$)	
 6.1.3 Use proportions to solve problems (e.g., determine the value of N if 4/7 = N/21, find the length of a side of a polygon similar to a known polygon). Use cross-multiplication as a method for solving such problems, understanding it a multiplication of both sides of an equation by a multiplicative inverse. 6.1.4 Calculate given percentages of quantities and solve problems involving discounts 	 6.2.3 Solve addition, subtraction, multiplication and division problems, including those arising in concrete situations that use positive and negative numbers and combinations of these operations 6.2.4 Determine the least common multiple and greatest common divisor of whole numbers. Use them to solve problems with fractions (e.g., to find a common denominator in order to add two 	
at sales, interest earned and tips	fractions or to find the reduced form for a fraction)	