# MATH 7A

In this course concepts and skills are introduced or reintroduced through step by step examples provided in the student activity book. These are followed by practice exercises with the answers given upside down on the following page. Once the student is confident that he/she knows the skill he/she does the follow up activity. For immediate reinforcement purposes the answers to the odd numbered problems of each activity are provided in the "Appendix" of the student activity book. A "Reteach" activity is provided for each skill for students needing additional practice or for review purposes as indicated from the results of the review test.

## UNIT 1 - Whole Numbers

The unit reviews and extends the student's understanding and use of place value, number comparisons, writing numbers from words, rounding and expanded numbers. The addition, subtraction, multiplication and division of whole numbers are highlighted in this unit.

## UNIT 2 - Decimals

The unit is a study of the meaning, place value, comparisons, and rounding of decimals. It includes the four basic operations - adding, subtracting, multiplying and dividing - with decimals (including multiplication and division by multiples of ten).

## UNIT 3 - Fractions: Multiplying & Dividing

The unit reviews the meaning of fractions, equivalent fractions, common denominators, improper fractions and mixed numbers. Practice in multiplication and division of fractions and mixed numbers is provided. A shortcut in multiplying and using reciprocals in dividing fractions is also presented.

## UNIT 4 - Fractions: Adding & Subtracting

Addition and subtraction of fractions and mixed numbers with the same and different denominators are reviewed and expanded. Changing fractions to decimals and decimals to fractions as well as the concept of repeating decimals is also reviewed.

## UNIT 5 - Math Operations

The unit reviews and expands learning of the order of operations, using exponents, divisibility of numbers by 2, 3, 5 or 10, factoring, prime factorization, using exponents and finding factors for numbers; greatest common factor, common multiplies, least common multiplies and prime and composite numbers.