THIS BOOK IS A MATHEMATICS TEXTBOOK FOR COLLEGE JUNIORS AND SENIORS PREPARING TO BECOME ELEMENTARY ARITHMETIC TEACHERS OR SECONDARY MATHEMATICS TEACHERS.

EVERYONE INVOLVED IN ARITHMETIC AND MATHEMATICS EDUCATION REALIZES THE IMPORTANCE OF TEACHING/ILLUSTRATING CONCEPTS FIRST WHEN INTRODUCING MATHEMATICS TOPICS. THIS IS A FACT WHICH 99.999…% OF ALL TEACHERS UNDERSTAND. IF YOU ARE PREPARED TO TEACH ARITHMETIC OR MATHEMATICS YOU KNOW THAT 99.999…% EQUALS 100%, NOT CLOSE TO 100% BUT EQUAL TO 100%.

TEACHING CONCEPTS IS THE FIRST STEP, BUT IT IS NOT THE LAST STEP WHEN STUDENTS ARE LEARNING TO SOLVE ARITHMETIC AND MATHEMATICS PROBLEMS. EVEN THOUGH TEACHING CONCEPTS IS THE FIRST STEP, IT IS ONLY THE BEGINNING OF THE PROCESS NOT THE END, IF YOU ARE GOING TO BUILD A MATHEMATIC'S SKYSCRAPER.

THERE ARE NO PICTURES IN THIS TEXTBOOK, IT IS A SERIOUS MATHMATICS TEXTBOOK **WHICH CONCENTRATES ON HOW TO TEACH RULES AND PROCEDURES, PLUS HOW TO INCLUDE NUMBER SENSE IN YOUR DAILY/WEEKLY LESSONS**.

STEP ONE, UNDERSTANDING CONCEPTS, WHEN LEARNING ANYTHING IN MATHEMATICS IS IMPORTANT, BUT IF THE STUDENTS DO NOT MEMORIZE SPECIFIC NUMBER FACTS AND "LEARN AND REMEMBER" THE ARITHMETIC RULES/PROCEDURES WHICH NEED TO BE LEARNED/MASTERED IN ARITHMETIC, STUDENTS WILL STRUGGLE IN ALGEBRA AND ADVANCED MATHEMATICS CLASSES.

THIS TEXTBOOK WILL EXPLAIN AND ILLUSTRATE HOW TO TEACH RULES AND PROCEDURES TO STUDENTS, SO THEY WILL MASTER THE REQUIRED RULES AND PROCEDURES, AND HAVE A GREAT CHANCE TO BE SUCCESSFUL IN HIGHER-LEVEL MATH CLASSES BY USING THE SAME RULES IN ARITHMETIC WHICH THEY WIILL USE IN ALGEBRA AND HIGHER-LEVEL MATH CLASSES.

IN THE PROCESS WE WILL INTRODUCE AND ILLUSTRATE HOW TO USE TWO NEW COMMON-SENSE THEOREMS WHICH NO ONE HAS EVER NAMED AND FEW TEACHERS EMPHASIZE. THESE TWO NEW THEOREMS WILL HELP STUDENTS SOLVE A VARIETY OF ARITHMETIC AND MATHEMATICS PROBLEMS. BOTH THEOREMS ARE SIMPLE BUT POWERFUL.

READ AND STUDY THIS TEXTBOOK, READ AND STUDY MANY OF THE RESEARCH PAPERS INDICATED IN THIS TEXTBOOK, AND SOLVE ALL THE PROBLEMS INDICATED AT THE END OF EACH CHAPTER, THEN YOU SHOULD BE PREPARED TO BE AN EXECLLENT ELEMENTARY ARITHMETIC TEACHER AND/OR AN EXCELLENT SECONDARY MATH TEACHER. STUDY AND DIGEST EVERY COMMENT INDICATED IN THIS TEXTBOOK. EVERY SENTENCE, EXPLANATION, EXAMPLE PROBLEM, AND COMMENT IS IMPORTANT.