

**Hands-On Equations(R) Verbal Problems Book:
Introduction & Level I Objectives**

**Level I
Verbal
Problems**

Students will analyze verbal problems and determine what strategy is best for representing the problem using concrete models or pictorial symbols.

Students will use mathematical models (e.g., concrete, pictorial) to represent and solve application problems involving quantitative relationships with rational numbers.

Students will write down the representation of the unknown elements of the verbal problem.

Students will use multiple strategies (e.g., a 5-step problem solving process, breaking a problem into parts, and determining whether a problem has too much information or not enough information) to solve real-world application problems.

Students will represent physically or pictorially given relations, such as Jim's age 10 years from now given his current age, the amount of rain that falls in three months given the amount it falls in one month, the distance travelled by a train in two hours.

Students will represent and solve application problems including problems involving distance, money, age, and patterns of numbers (e.g., consecutive numbers, consecutive even numbers, and consecutive odd numbers).

Students will provide the answer to verbal problems in full sentence format.

Students will use substitution and mental math to check solutions to algebraic equations in one variable.