



Topic F

Addition and Subtraction Word Problems

4.OA.3, 4.NBT.1, 4.NBT.2, 4.NBT.4

Focus Standard:	4.OA.3	Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.
Instructional Days:	3	
Coherence		
-Links from:	G3–M2	Place Value and Problem Solving with Units of Measure
-Links to:	G5–M1	Place Value and Decimal Fractions

Module 1 culminates with multi-step addition and subtraction word problems in Topic F (**4.OA.3**). In these lessons, the format for the Concept Development is different from the traditional vignette. Instead of following instruction, the Problem Set facilitates the problems and discussion of the Concept Development.

Throughout the module, tape diagrams are used to model word problems, and students continue to use tape diagrams to solve *additive comparative* word problems. Students also continue using a variable to represent an unknown quantity.

To culminate the module, students are given tape diagrams or equations and are encouraged to use creativity and the mathematics learned during this module to write their own word problems to solve using place value understanding and the algorithms for addition and subtraction. The module facilitates deeper comprehension and supports determining the reasonableness of an answer. Solving multi-step word problems using multiplication and division is addressed in later modules.

A Teaching Sequence Toward Mastery of Addition and Subtraction Word Problems

Objective 1: Solve *additive compare* word problems modeled with tape diagrams.
(Lesson 17)

Objective 2: Solve multi-step word problems modeled with tape diagrams, and assess the reasonableness of answers using rounding.
(Lesson 18)

Objective 3: Create and solve multi-step word problems from given tape diagrams and equations.
(Lesson 19)