

UNIT
5

Write Equations to Solve Word Problems

Learning Progressions for the Common Core Standards Operations and Algebraic Thinking and Number and Operations in Base Ten

In Grade 2, students	In Grade 3, students will	In Grade 4, students will
<ul style="list-style-type: none"> mastered all of the problem situations using addition and subtraction within 20. solved simple two-step addition problems with single-digit addends. 	<ul style="list-style-type: none"> use drawings and equations with a symbol for the unknown number to represent the problem. use information presented in scaled bar graphs to solve comparison problems. use properties of operations to explain patterns. 	<ul style="list-style-type: none"> use drawings and equations with a symbol for the unknown number to represent the problem. represent verbal statements of multiplicative comparisons as multiplication equations. write equations to represent problems with more than one step.

Content Standards Across the Grades

Grade 2	Grade 3	Grade 4
<ul style="list-style-type: none"> Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions. [CC.2.OA.1] Fluently add and subtract within 20 using mental strategies. [CC.2.OA.2] 	<ul style="list-style-type: none"> Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities. [CC.3.OA.3] Solve two-step word problems using the four operations. [CC.3.OA.8] Solve one- and two-step “how many more” and “how many less” problems. [CC.3.MD.3] Identify arithmetic patterns (including patterns in the addition table or multiplication table). [CC.3.OA.9]. 	<ul style="list-style-type: none"> Represent verbal statements of multiplicative comparisons as multiplication equations. [CC.4.OA.1] Multiply or divide to solve word problems involving multiplicative comparisons. [CC.4.OA.2] Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations. [CC.4.OA.3] Distinguish multiplicative comparison from additive comparison. [CC.4.OA.2] Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number or is prime or composite. [CC.4.OA.4] Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. [CC.4.OA.5]