

UNIT
2

Multiplication and Division with 6s, 7s, 8s and Multiply with Multiples of 10

Learning Progressions for the Common Core State Standards Operations and Algebraic Thinking

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. • reached fluency with finding sums of two digit numbers. • solved simple two-step addition problems with single-digit addends. 	<ul style="list-style-type: none"> • use properties of multiplication and division and patterns to multiply and divide within 100. • reach fluency with finding products of single digit numbers and their related quotients. • solve two-step word problems involving the four operations using a letter for the unknown quantity. 	<ul style="list-style-type: none"> • interpret a multiplicative equation as a comparison and solve multiplicative comparison problems. • extend number decomposition to factors, multiples, and prime and composite numbers. • generate and analyze patterns. • solve multistep word problems.

Content Standards Across the Grades

Grade 2	Grade 3	Grade 4
<ul style="list-style-type: none"> • Represent and solve problems involving addition and subtraction. [CC.2.OA.1] • Add and subtract within 20. [CC.2.OA.2] • Work with equal groups to build foundation for multiplication. [CC.2.OA.3] 	<ul style="list-style-type: none"> • Represent and solve problems involving multiplication and division. [CC.3.OA.1, CC.3.OA.2, CC.3.OA.3, CC.3.OA.4] • Apply properties of multiplication and the relationship between multiplication and division to multiply within 100. [CC.3.OA.5, CC.3.OA.6] • Fluently multiply and divide within 100. [CC.3.OA.7] • Solve problems involving the four operations, and identify and explain patterns in arithmetic. [CC.3.OA.9] 	<ul style="list-style-type: none"> • Find factors and multiples of whole numbers. [CC.4.OA.4] • Analyze and generate patterns. [CC.4.OA.5] • Solve problems involving the four operations with whole numbers. [CC.4.OA.1, CC.4.OA.2, CC.4.OA.3]