



Topic F

Varied Problem Types Within 20

1.OA.1

Focus Standard:	1.OA.1	Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem. (See CCLS Glossary, Table 1.)
Instructional Days:	3	
Coherence -Links from:	G1–M4	Place Value, Comparison, Addition and Subtraction to 40
	G1–M3	Ordering and Comparing Length Measurements as Numbers
-Links to:	G2–M7	Problem Solving with Length, Money, and Data

Topic F provides students the opportunity to focus on solving various problem types and learn from their peers' strategies.

Lessons 25 and 26 focus on the most challenging Grade 1 problem types: *compare with bigger unknown* and *compare with smaller unknown* (**1.OA.1**). Students continue to strengthen their ability to recognize *compare* problem types and solve for unknowns in varied positions. They also work with problem types that suggest the incorrect operation, such as, "Shanika went down the slide 15 times. She went down 3 more times than Fran. How many times did Fran go down the slide?" While students do not need to master this problem type in Grade 1, exposure to these problems can support students' long-term success. During Lesson 26, students are provided more time to practice the various problem types and to learn to persevere in problem solving.

Students then practice all of the problem types they have encountered throughout the year in Lesson 27. They discuss their methods for solving the problems and explain their work, including such questions as, "How does Student A's work help her solve the problem? How does Student B's work help him solve the problem? What compliment can we give Student A? What might Student A do to improve her work? What do you notice about your own work after looking at Student A's and Student B's work?"

A Teaching Sequence Towards Mastery of Varied Problem Types Within 20

Objective 1: Solve *compare with bigger or smaller unknown* problem types.
(Lessons 25–26)

Objective 2: Share and critique peer strategies for solving problems of varied types.
(Lesson 27)