

Grade: 3rd

Strand: Operations & Algebraic Thinking

Standard/Topic: MAT-03.OA.03

Using drawings and equations with a symbol for an unknown number, solve multiplication and division word problems within 100 in situations involving equal groups, arrays, and measurement quantities.



		Sample Activities
Score 4.0 Complex	In addition to Score 3.0, in-depth inferences and applications that go beyond the target content. The student will: • Create word problems to illustrate multiplication and division facts with products and dividends over 100.	Example: Create a word problem for the following facts: $12 \times 8 = c$ $144 \div 12 = c$
	3.5 In addition to target performance, in-depth inferences and applications with partial understanding	
Score 3.0 Target	The student will: • Solve multiplication word problems within 100 using drawings and equations with a symbol for an unknown number in situations involving equal groups, arrays, and measurement quantities. • Solve division word problems within 100 using drawings and equations with a symbol for an unknown number in situations involving equal groups, arrays, and measurement quantities. The student exhibits no major errors or omissions.	Example: Students set up 40 chairs in the gymnasium for a concert. They set up 5 rows of chairs. How many chairs were in each row? $5 \times c = 40$ $40 \div 5 = c$. XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX
	2.5 No major errors or omissions regarding the simple content and partial understanding of the target content	
Score 2.0 Simple	There are no major errors or omissions regarding the simpler details and processes as the student: • The student will recognize or recall specific terminology, such as: ◦ Repeated addition, equal groups, array, product, factor, quotient, equation, symbol, repeated subtraction, dividend, skip counting, groups of, quotient, multiplication, multiply, division, divide, x sign, ÷ sign, = sign, divisor • The student will perform basic processes, such as: ◦ Using drawings and manipulatives to show process of equal groups ◦ Solve multiplication word problems with factors of 2, 5, 10 using drawings and equations with a symbol for an unknown number in situations involving equal groups, arrays, and measurement quantities ◦ Solve division word problems with factors of 2, 5, 10 using drawings and equations with a	Example: Create story problems around groups of items. Example 3.OA.1: 5×7 as the total number of objects in 5 groups of 7 objects. Example 3.OA.2: $35 \div 5$ as the total number of objects shared into 5 groups or into groups of 5. Multiplication Strategies: • Skip counting on a number line • Repeated addition • Pictures of equal groups (circles and stars - groups/in each)) • Arrays • Tallies (5s) Division Strategies: • Pictures sharing out the "in all"

	symbol for an unknown number in situations involving equal groups, arrays, and measurement quantities. However, the student exhibits major errors or omissions regarding the more complex ideas and processes.	into equal groups • Repeated subtraction (number line) • Associative property • Arrays Suggested Tools: • 100s charts • Skip counting books • Graph paper
	1.5 Partial understanding of the simple, but major errors or omissions regarding the target content	
Score 1.0	With help, partial understanding of the simple and target content	
	0.5 With help, partial understanding of the simple content, but not the targeted content	