

Grade 3 Smarter Balanced Assessment Item Specifications Fact Sheet

Claim 1 - Target D: Solve problems involving the four operations, and identify and explain patterns in arithmetic.

Content Domain: Operations and Algebraic Thinking

Claim 1 Priority Cluster

Standards Assessed in Target D:

3.OA.8: Solve two-step word problems using the four operations. 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.

3.OA.9: Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. *For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.*

Achievement Level Descriptors

Level 1	Students should be able to represent and solve one-step problems using addition and subtraction within 100 and multiplication and division within 100.
Level 2	Students should be able to solve two-step problems using addition and subtraction with numbers larger than 100 and solutions within 1000, assess the reasonableness of an answer, and identify patterns in the addition table.
Level 3	Students should be able to solve two-step problems using multiplication and division within 100. They should be able to represent the problem using equations with a letter or symbol to represent an unknown quantity. They should also be able to explain patterns in the multiplication table.
Level 4	Students should be able to use the properties of operations to explain arithmetic patterns (including patterns in the addition and multiplication tables).

Construct-Relevant Vocabulary

add, addend, difference, divide, equation, estimate, estimation, factor, multiply, patterns, product, quotient, rounding, subtract, sum

Allowable Stimulus Materials

addition tables, multiplication tables, number lines