Grade 5 Smarter Balanced Assessment Item Specifications Fact Sheet

Claim 1 - Target B: Analyze patterns and relationships.
Content Domain: Operations and Algebraic Thinking
Claim 1 Supporting Cluster

Standards Assessed in Target B:

5.OA.3: Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. *For example, given the rule "Add 3" and the starting number 0, and given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.*

Achievement Level Descriptors

Level 1	Students should be able to generate two numerical patterns using two given rules involving addition, subtraction, or multiplication.
Level 2	Students should be able to generate two numerical patterns using two given rules involving all operations. When working with two whole number numerical patterns, they should be able to graph the corresponding whole number ordered pairs on the coordinate plane.
Level 3	Students should be able to compare and analyze two related numerical patterns and explain the relationship within sequences of ordered pairs, and they should be able to graph the ordered pairs on the coordinate plane.
Level 4	Students should be able to compare two related numerical patterns and explain the relationship within sequences of ordered pairs that are rational numbers.

Construct-Relevant Vocabulary

coordinates, ordered pairs, pattern, sequence

Allowable Stimulus Materials

coordinate plane model in quadrant I only