Smarter Balanced Assessment Item Illustrating 4.NF.B.3

Example Stem: Drag numbers to the numerators of the fractions to show **two different** correct equations.

$$\frac{7}{8} = \frac{\square}{8} + \frac{\square}{8} + \frac{\square}{8} \qquad \frac{7}{8} = \frac{\square}{8} + \frac{\square}{8} + \frac{\square}{8}$$

Answer Key

Student drags a number (not shown) to each box so that each sum shows 7/8.

Elaboration on Alignment

This item aligns specifically to 4.NF.B.3.b which requires students to decompose a fraction into a sum of fractions with the same denominator in more than one way. The specific item type used here (drag-and-drop) works well for this particular standard because students can be provided with a palette of numbers (e.g., numbers 1-5) and can create two different sums as required by the standard. Scoring should allow for both equations to use the same numerators in different orders, such as 2/8 + 2/8 + 3/8 and 3/8 + 2/8 + 2/8 since “different” has not been specifically defined to require otherwise.

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