# Smarter Balanced Assessment Item Illustrating 4.NF.C. 5 <br> © ITEMS RETRIEVED WITH PERMISSION FROM THE SMARTER BALANCED CLAIM 1 ITEM SPECIFICATIONS AVAILABLE FROM HTTP://WWW.SMARTERBALANCED.ORG/ASSESSMENTS/DEVELOPMENT; ACCESSED NOVEMBER 2017. PLEASE CONTACT SMARTER BALANCED DIRECTLY FOR ADDITIONAL INFORMATION ON TERMS OF USE. 

Example Stem 1: Enter the unknown numerator that makes this equation true.
$\frac{6}{10}+\frac{3}{100}=\frac{\square}{100}$

Example Stem 2: Enter the unknown number that makes this equation true.
$\frac{3}{10}+\frac{15}{100}=$

Example Stem 1: Enter the unknown numerator that makes this equation true.
$\frac{\square}{10}+\frac{15}{100}=\frac{65}{100}$
Example Stem 2: Enter the unknown number that makes this equation true.
$\frac{3}{10}+\square=\frac{65}{100}$

Answer Key
$63 ; 45 / 100$, or equivalent; $5 ; 35 / 100$, or equivalent

## Elaboration on Alignment

While some of the problems shown here directly target the part of standard 4.NF.C. 5
that calls for students to add two fractions with denominators 10 and 100, the variety of problems ensures that the conceptual understanding articulated at the cluster level for students to "understand decimal notation for fractions" does not get lost. By changing the position of the unknown, sometimes requiring just a numerator and other times requiring an unknown fraction, students must have a deeper understanding of the relationships between addends and sums as they develop foundations for decimal notation.

## Learn More

Learn more with the MATH Assessment Item Alignment Modules at www.achievethecore.org.

