NWEA Assessment Item Illustrating K.OA.A.4

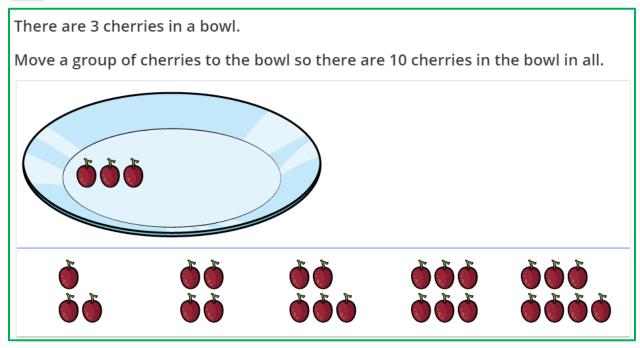
© 2020 NWEA (EXCEPT FOR COMMON CORE STATE STANDARDS © 2010 NATIONAL GOVERNORS ASSOCIATION CENTER FOR BEST PRACTICES AND COUNCIL OF CHIEF STATE SCHOOL OFFICERS). ALL RIGHTS RESERVED. USED WITH PERMISSION FROM NWEA; VISIT https://www.nwea.org/ FOR TERMS OF USE.

Domain: Operations and Algebraic Thinking

K.OA.A: Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.

Calculator Availability: No





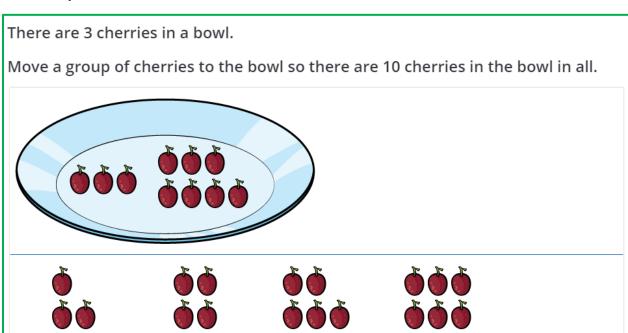
Alignment: K.OA.A.4: For any number from 1 to 9, find the number that makes 10 when added to the given number, e.g., by using objects or drawings, and record the answer with a drawing or equation.

This item assesses students' ability to compose 10 when given a starting number of objects. Students combine their understanding of one-to-one correspondence when counting with either the counting-on strategy or addition to determine the number of cherries needed to compose 10. The item is purposely designed so that students click on groupings of cherries to demonstrate understanding without unnecessarily having to move multiple objects.

Coherence: K.OA.A.4 builds directly upon the K.OA.A.3 standard, in which students decompose numbers within 10, and it is connected to the counting work done in kindergarten. K.CC Working with composing and decomposing within 10 supports fluency within 5 in kindergarten, K.OA.A.5 within 10 in grade 1, 1.OA.A.6 and within 20 in grade 2.^{2.OA.B.2} As students compute with greater numbers, the work in K.OA.A.4 will support composing and decomposing tens when adding and subtracting. 1.NBT.C.4, 2.NBT.B.7

Rigor: This item attends to conceptual understanding, procedural skill, and application. Composing 10 requires conceptual understanding that multiple representations are possible for a given number. The item also attends to procedural skill because it requires grade-level computation to determine the number that will make 10. Because representations of real-world objects are used, this item is an application of mathematics in a real-world scenario.

Answer Key:



All content linked to within this resource was free for use when this resource was published in August 2020. Over time, the organizations that manage that external content may move or remove it or change the permissions. If the content is no longer available, please email info@studentsachieve.net.