NWEA Assessment Item Illustrating 2.OA.A.1

Domain: Operations and Algebraic Thinking
2.OA.A: Represent and solve problems involving addition and subtraction.
Calculator Availability: No

Use the information to answer the question.

Ava has 19 more seashells than her brother. Ava has 43 seashells.

How many seashells does Ava's brother have? Enter the answer in the box.
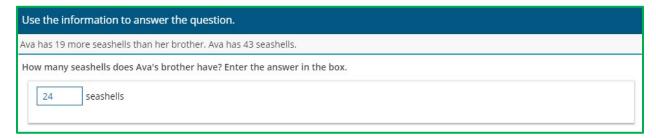
[_____] seashells

Alignment: 2.OA.A.1: Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

By grade 2, students are expected to solve the full range of one- and two-step problem types as outlined in Table 1 of the CCSS Mathematics Glossary. This is a one-step compare problem type in which the unknown is the smaller value. Students must make sense of the problem and understand that they will need to subtract 19 from 43 in order to solve. Since problem-solving will be a key component across domains, providing students experience with a variety of problem types is critical.

Coherence: Students have been solving addition and subtraction word problems since kindergarten. In kindergarten, students solved single-step problems within 10, using only the four most basic problem types outlined in Table 1 of the CCSS Mathematics Glossary.[K.OA.A.2] In grade 1, more problem types and greater numbers were introduced.[1.OA.A] In grade 2, students are expected to solve one- and two-step problems for all problem types. In grade 3, problem-solving will expand to include multistep problems with all four operations.[3.OA.D.8]

Rigor: This item attends to conceptual understanding, procedural skill, and application. Because mastery of this problem type is not expected until grade 2, the item requires conceptual understanding. The subtraction within 100 required to solve this item is a grade-level procedural skill. This item requires an application of mathematics in a real-world scenario in which the operation is directly indicated.

Answer Key:

Use the information to answer the question.

Ava has 19 more seashells than her brother. Ava has 43 seashells.

How many seashells does Ava's brother have? Enter the answer in the box.

[24] seashells

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