

NWEA Assessment Item Illustrating 1.OA.D.8

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Domain: Operations and Algebraic Thinking

1.OA.D: Work with addition and subtraction equations.

Calculator Availability: No



Move a number to the line to make a true equation.

$$\underline{\quad} - 4 = 11$$

0	1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	

Alignment: 1.OA.D.8: Determine the unknown whole number in an addition or subtraction equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$, $5 = _ - 3$, $6 + 6 = _$.*

Although much of the work that grade 1 students do in the Operations and Algebraic Thinking domain involves working concretely with addition and subtraction, in cluster 1.OA.D students work with them symbolically. It is important that students understand that an unknown quantity can occur in any place in an addition or subtraction equation.

Coherence: Understanding and using symbolic representations supports the work students are doing in grade 1.^{1.OA.D.7} Continued exposure to representing equations supports other grade 1 work, such as representing addition and subtraction situations,^{1.OA.A.1} and leads to further understanding of representing situations with larger numbers.^{2.OA.A.1}

Rigor: This item attends to conceptual understanding and procedural skill. Students need to understand what the unknown represents in the equation and use a grade-level procedure to calculate the unknown.

Answer Key:

Move a number to the line to make a true equation.

$$\underline{15} - 4 = 11$$

0	1	2	3	4	5	6	7	8	9	10
11	12	13	14		16	17	18	19	20	

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