

NWEA Assessment Item Illustrating 1.NBT.C.6

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Domain: Number and Operations in Base Ten

1.NBT.C: Use place value understanding and properties of operations to add and subtract.

Calculator Availability: No



Subtract. Move a number to the line to show the answer.

$$70 - 30 = \underline{\quad}$$

70

67

4

40

73

100

Alignment: 1.NBT.C.6: Subtract multiples of 10 in the range 10–90 from multiples of 10 in the range 10–90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

In grade 1, students do not subtract two two-digit numbers except in the case of multiples of 10. Having students subtract two two-digit numbers that are both multiples of 10 supports place value understanding in that it reinforces the concept that the value of the numbers is based on the digit in the tens place. Students may think of this problem as 7 tens minus 3 tens equals 4 tens. They may also apply the relationship between addition and subtraction as an unknown-addend problem: $30 + \underline{\quad} = 70$. It is important that students develop this deeper understanding of subtraction and not be introduced to the algorithm prematurely or be taught to simply line up the larger number over the smaller number and subtract the digits in each column.

Coherence: In kindergarten, students composed and decomposed numbers from 11 to 19 and recorded those decompositions with equations.^{K.NBT.A.1} This provided a foundation for subtracting multiples of ten in grade 1. The work with place value that students do in grade 1 supports their ability to subtract multiples of ten.^{1.NBT.B.2}

In grade 2, students will be expected to fluently add and subtract within 100^{2.NBT.B.5} as well as solve word problems with addition and subtraction within 100.^{2.OA.A.1} It is important that students gain a conceptual understanding of both addition and subtraction in grades K–2 because starting in grade 3 the focus of their work will move to multiplication, division, and fractions. Students will need to have a strong foundation in addition and subtraction in order to successfully navigate the content for grades 3–5.

Rigor: This item attends to procedural skill. Students complete a grade-level procedure when they subtract two multiples of 10.

Answer Key:

Subtract. Move a number to the line to show the answer.

$$70 - 30 = \underline{40}$$

70

67

4

73

100

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