

NWEA Assessment Item Illustrating 5.NBT.B.7

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Domain: Number and Operations in Base Ten

5.NBT.B: Perform operations with multi-digit whole numbers and with decimals to hundredths.

Calculator Availability: No

Use the equation to answer the question.

$$\underline{\hspace{1cm}} + 5.7 = 8.03$$

What value makes the equation true? Enter the answer in the box.

Alignment: 5.NBT.B.7: Add, subtract, multiply, and divide decimals to hundredths, 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.

This standard represents important work for grade 5 as students extend previous work with whole numbers to include decimals. In this item, students can use the relationship between addition and subtraction to establish that the answer needs to be the difference between the given numbers. The numbers in the item were chosen to allow students multiple ways to solve, including using place value understanding, mental math, or an algorithm. Such flexibility encourages the deeper understanding of decimal structure that underlies fluency, which will be expected in grade 6.

Coherence: This standard builds upon the whole-number addition and subtraction progression that students have developed since kindergarten throughout the OA and NBT domains. In grade 1, students also worked with addition and subtraction equations.^{1.OA.D} Students will be expected to be fluent in all four operations with decimals in grade 6.^{6.NS.B.3}

Rigor: This item attends to conceptual understanding and procedural skill. Using the relationship between the operations to solve the problem demonstrates conceptual understanding. The actual subtraction of two decimals to the hundredths place is a grade-level procedure.

Answer Key:

Use the equation to answer the question.

$$\underline{\hspace{1cm}} + 5.7 = 8.03$$

What value makes the equation true? Enter the answer in the box.

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