

NWEA Assessment Item Illustrating 6.NS.B.3

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Domain: The Number System

6.NS.B: Compute fluently with multi-digit numbers and find common factors and multiples.

Calculator Availability: No

What is 5.204×1.8 ? Enter the answer in the box.

Alignment: 6.NS.B.3: Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

Computational fluency is an important component of the work of grades K–6 and supports the work across multiple domains, including Expressions and Equations, Geometry, and Statistics and Probability. This item requires students to multiply two decimal numbers. By using 1.8, the multiplication is manageable while still making the standard algorithm one of the more appealing options for students to choose.

Coherence: While this cluster is supporting, students should be given opportunities to work toward fluency throughout instruction. Students began developing computational strategies as early as in kindergarten and continue to develop strategies through grade 7, when fluency with rational numbers will conclude. Grade 6 contains the final standard in a progression of decimal number operations that began in grade 4.^{4.NF.C.6} The numbers now extend beyond the hundredths that were used in grade 5.^{5.NBT.A.7} Computation with decimals prepares students for computation with rational numbers^{7.NS.A} and computing with scientific notation.^{8.EE.A.4}

Rigor: This item attends to procedural skill. Students use a grade-level procedure for multiplication with decimals and call upon that algorithm to compute in this item.

Answer Key:

What is 5.204×1.8 ? Enter the answer in the box.

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