

NWEA Assessment Item Illustrating 4.NF.C.6


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Domain: Number and Operations—Fractions

4.NF.C: Understand decimal notation for fractions, and compare decimal fractions.

Calculator Availability: No

Use the number line to answer the question.



What number is located at point N on the number line? Write the number as a fraction and as a decimal. Enter the answers in the boxes.

$\frac{\quad}{\quad}$	<input type="text"/>
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Alignment: 4.NF.C.6: Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as 62/100; describe a length as 0.62 meters; locate 0.62 on a number line diagram.

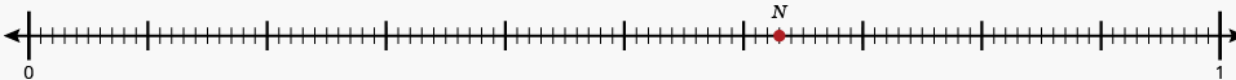
In this cluster, grade 4 students are introduced to the idea of decimal fractions, or fractions that can be represented as tenths or hundredths. This item directly assesses whether a student can correctly write a number in both fraction and decimal form.

Coherence: Decimal fractions extend the work that students did with place value in grades 1–3.^{1.NBT.A.2, 2.NBT.A.1, 3.NBT.A} By gaining an understanding of decimal fractions in grade 4, students will be prepared for the work they will do with decimals in grade 5, when they will learn about decimal place value^{5.NBT.A} and will perform multi-digit arithmetic with decimals.^{5.NBT.B}

Rigor: This item attends to conceptual understanding. Students use the number line to identify a number between 0 and 1 and then write it in both decimal and fraction form. This is a grade-level concept.

Answer Key:

Use the number line to answer the question.



What number is located at point N on the number line? Write the number as a fraction and as a decimal. Enter the answers in the boxes.

$\frac{63}{100}$	0.63
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