

NWEA Assessment Item Illustrating 2.NBT.A.3

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Domain: Number Sense

2.NBT.A: Understand place value.

Calculator Availability: No

Which two answer choices have a value of six hundred three?

<input type="checkbox"/> A. 630	<input type="checkbox"/> B. $6 + 100 + 3$
<input type="checkbox"/> C. 603	<input type="checkbox"/> D. $60 + 0 + 3$
<input type="checkbox"/> E. 360	<input type="checkbox"/> F. $600 + 3$
<input type="checkbox"/> G. 63	<input type="checkbox"/> H. $600 + 30$

Alignment: 2.NBT.A.3: Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.

Students are expected to recognize numbers represented in multiple forms: base-ten numerals, number names, and expanded form. This item incorporates all three forms of numbers. Connecting multiple representations of numbers helps develop a deeper conceptual understanding of place value. The options in the item assess students' understanding of how a digit's location in a number informs its value.

Coherence: In kindergarten, place-value work centered around understanding numbers between 10 and 20 as ten and some ones.^{K.NBT.A.1} In grade 1, the magnitude of numbers expanded to within 100, and the emphasis was on understanding the meaning of a ten and the relationship between tens and ones.^{1.NBT.B.2} In grade 2, students work with numbers through 1,000, with an emphasis on the meaning of a hundred. Students are expected to recognize multiple forms of numbers for the first time. This expectation will carry through grade 4, with multi-digit numbers,^{4.NBT.A.2} and through grade 5, with decimals through thousandths.^{5.NBT.A.3a} In grades 4 and 5, the emphasis will be on understanding the base-ten relationship between place values. Additionally, throughout the primary years, students apply place-value understandings such as a ten as a set of 10 ones and a hundred as a set of 10 tens to compute with the four operations.

Rigor: This item attends to conceptual understanding of place value.

Answer Key:

Which two answer choices have a value of six hundred three?

<input type="checkbox"/> A. 630	<input type="checkbox"/> B. $6 + 100 + 3$
<input checked="" type="checkbox"/> C. 603	<input type="checkbox"/> D. $60 + 0 + 3$
<input type="checkbox"/> E. 360	<input checked="" type="checkbox"/> F. $600 + 3$
<input type="checkbox"/> G. 63	<input type="checkbox"/> H. $600 + 30$

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