

# NWEA Assessment Item Illustrating 2.NBT.B.5

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**Domain:** Number Sense

**2.NBT.B:** Use place value understanding and properties of operations to add and subtract.

**Calculator Availability:** No

Solve. Enter the answer in the box.

50 – 22 =

**Alignment: 2.NBT.B.5:** Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.

The standards within this cluster involve applying place value, properties of operations, and the relationship between operations to add and subtract numbers of varying magnitudes: within 100 in this standard, and within 1,000 in 2.NBT.B.7. Given that 2.NBT.B.5 is a fluency standard, this item represents the more challenging subskill of regrouping across a zero.

**Coherence:** The base-ten addition and subtraction progression is carefully developed in the primary grades in combination with place-value understanding. In grade 1, students first worked with place value through hundreds.<sup>1.NBT.B</sup> Appropriately, students' first experience adding within 100<sup>1.NBT.C</sup> was tightly centered around place-value relationships. In grade 1, there was an emphasis on adding a two-digit number and a one-digit number to introduce regrouping skills and an emphasis on adding a two-digit number and a multiple of ten to reinforce place value.<sup>1.NBT.C.4</sup> Subtraction in grade 1 was restricted to subtracting multiples of ten from multiples of ten.<sup>1.NBT.C.6</sup> In grade 2, students are expected to compute fluently within 100. Since place value is expanded to 1,000 in grade 2, students are also expected to apply place-value understanding to compute within 1,000.<sup>2.NBT.B.7</sup> The last standard for whole-number addition and subtraction is in grade 4,<sup>4.NBT.B.4</sup> and operations with decimals will be introduced in grade 5.<sup>5.NBT.B.7</sup>

**Rigor:** This item attends to procedural skill, as it involves grade-level computation with no context.

**Answer Key:**

Solve. Enter the answer in the box.

50 – 22 =

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