

NWEA Assessment Item Illustrating 7.NS.A.2

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Domain: The Number System

7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.

Calculator Availability: No

Divide.

$$56 \div (-4)$$

Enter the answer in the box.

Alignment: 7.NS.A.2: Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.

Operating with rational numbers is an important part of the K–8 progression. The numbers and operations in this item were chosen to illustrate the grade-level expectation for multiplication and division with integers. This item requires students to know the rules for operations with signed numbers.

Coherence: Students should be given opportunities to work towards fluency throughout instruction. Students began developing computational strategies as early as kindergarten and continue to develop strategies through grade 7. In grade 6, students began to develop the concept of negative rational numbers and work with the number line below zero.^{6.NS.C.6} In grade 7, students must apply and extend their understandings of negative numbers to compute with rational numbers of all forms. Computation with rational numbers supports grade 7 work with expressions and equations,^{7.EE.A/B} and prepares students for work with computing with scientific notation,^{8.EE.A.4} and understanding the work with irrational numbers.^{8.NS.A}

Rigor: This item attends to procedural skill. Students have developed grade-level procedures for operating with rational numbers in different forms, including signed numbers, and call upon those algorithms to compute.

Answer Key:

Divide.

$$56 \div (-4)$$

Enter the answer in the box.

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