Topic H

Interpretation of Numerical Expressions

5.OA.1, 5.OA.2

Focus Standards:

5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

5.OA.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For example, express the calculation “add 8 and 7, then multiply by 2” as \(2 \times (8 + 7)\). Recognize that \(3 \times (18932 + 921)\) is three times as large as \(18932 + 921\), without having to calculate the indicated sum or product.

Instructional Days: 2

Coherence -Links from: G4–M5 Fraction Equivalence, Ordering, and Operations
G5–M2 Multi-Digit Whole Number and Decimal Fraction Operations

-Links to: G6–M2 Arithmetic Operations Including Division of Fractions
G6–M4 Expressions and Equations

The module concludes with Topic H, in which numerical expressions involving fraction-by-fraction multiplication are interpreted and evaluated (5.OA.1, 5.OA.2). Students create and solve word problems involving both multiplication and division of fractions and decimal fractions.

A Teaching Sequence Toward Mastery of Interpretation of Numerical Expressions

Objective 1: Interpret and evaluate numerical expressions including the language of scaling and fraction division.
(Lesson 32)

Objective 2: Create story contexts for numerical expressions and tape diagrams, and solve word problems.
(Lesson 33)