## Core Content

| **Cluster Title: Compute fluently with multi-digit numbers and find common factors and multiples.** |
|---|
| **Standard 3:** Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. |
| **MASTERY Patterns of Reasoning:** |
| **Conceptual:**<br>Understand role of place value in the operations of addition, subtraction, multiplication, and division<br>Identify when it is appropriate to use the standard algorithm.<br><br>**Procedural:**<br>Add multi-digit decimals.<br>Subtract multi-digit decimals.<br>Multiply multi-digit decimals.<br>Divide multi-digit decimals.<br><br>**Representational:**<br>Model the operations of addition, subtraction, multiplication, and division with manipulatives, diagrams and story contexts for multi-digit decimals. |

## Supports for Teachers

| **Critical Background Knowledge** |
|---|
| **Conceptual:**<br>Understand decimal place values.<br>Know basic facts for addition, subtraction, multiplication and division.<br><br>**Procedural:**<br>Add single-digit decimals.<br>Subtract single-digit decimals.<br>Multiply single-digit decimals.<br>Divide single-digit decimals. |

| | |
|---|---|
| **Representational:**<br>Model the operations of addition, subtraction, multiplication, and division with manipulatives, diagrams and story contexts for single digit decimals. | |
| **Academic Vocabulary** | |
| addend, sum, difference, factor, product, divisor, dividend, quotient, remainder | |
| **Instructional Strategies Used** | **Resources Used** |
| 1-4. Connect students' knowledge of various strategies to the standard algorithm.<br><br>1-4. Have students look at student work that contains a common misconception and look at errors and discuss how to correct the error. | |
| **Assessment Tasks Used** | |
| **Skill-based Task:**<br>1. 242.134 + 308.02<br>2. 38.9 – 14.334<br>3. 11.82 x 2.81<br>4. 341.8 ÷ 1.2 | **Problem Task:**<br>The school had a bake sale and raised $75.55. If each cookie cost $0.05, how many cookies were sold? Explain how you got your answer. |