Master Standard Partitioning (1 or 2 Decimal Places) B

Rationale

In this step, pupils build on their understanding of combining and partitioning numbers with 2 decimal places. They progress to using part-whole models and place value arrow cards to write and complete addition and subtraction equations. This includes equations with missing numbers and combined place values. For example, 7.1 + ___ = 7.15 and 9.8 - ___ = 0.8 Pupils' understanding will be developed further by composing and decomposing numbers abstractly, completing addition and subtraction equations without the support of visual representations.

Key Stem Sentences

- ___ + ___ + ___ = ___
- ___ - ___ = ___

Key Vocabulary

- 1s / 0.1s / 0.01s
- compose / decompose
- combine / partition

Key Representations

Part-Whole Models

Composing

$3 + 0.8 + 0.05 = 3.85$

Decomposing

9.02

$9.02 - 9 = 0.02$

Place Value Arrow Cards

Composing

1 · 2 06

$1 + 0.2 + 0.06 = 1.26$

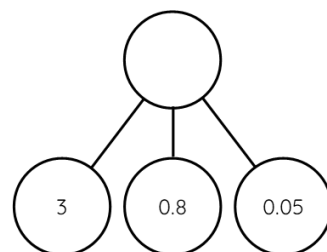**Decomposing**

8 · 4 7

$8.47 - 0.4 = 8.07$

Common Errors or Misconceptions

- When the order of the units is varied, pupils may compose incorrectly. For example, $0.09 + 7 + 0.2 = 9.72$
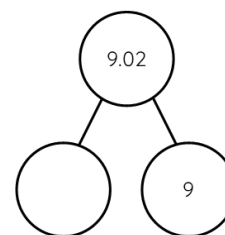
Pupils will FLOURISH if they can...

- combine and partition 1s, 0.1s and 0.01s.
- complete addition and subtraction equations to show the composition and decomposition of numbers.
- identify the missing number in addition and subtraction equations.
- begin to explain their understanding using their own words and representations.