6M016B Overview

Master Standard Partitioning (3 Decimal Places) B

Rationale

In this step, pupils build on their understanding of combining and partitioning numbers with 3 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, 6.409 + ___ = 6.489 and 53.721 - ___ = 53.021. 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

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

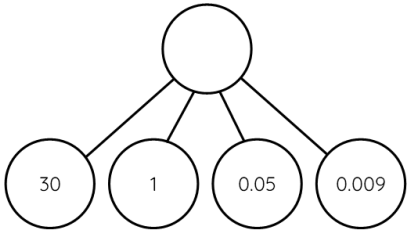
Key Vocabulary

- 100s / 10s / 1s / 0.1s / 0.01s / 0.001s
- compose / decompose
- combine / partition

Key Representations

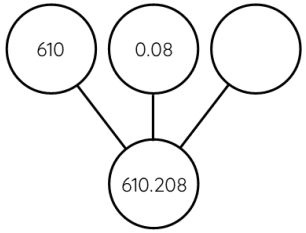
Part-Whole Models

Composing



30 + 1 + 0.05 + 0.009 = ___

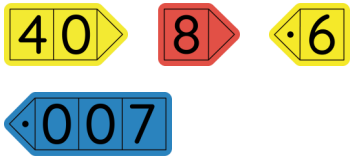
Decomposing



610.208 - ___ = 610.008

Place Value Arrow Cards

Composing



40 + 8 + 0.6 + 0.007 = 48.607

Decomposing

7.492 - 0.002 = 7.49

Common Errors or Misconceptions

- When the order of the units is varied, pupils may compose incorrectly. For example, 30 + 5 + 0.006 + 0.3 + 0.01 = 35.631

Pupils will FLOURISH if they can...

- combine and partition 100s, 10s, 1s, 0.1s, 0.01s and 0.001s.
- complete addition and subtraction equations to show the composition and decomposition of numbers.
- identify the missing number in addition and subtraction equations.
- explain their understanding in multiple ways using their own words and representations.