Master Standard Partitioning (7 digits) B

Rationale

In this step, pupils build on their understanding of combining and partitioning 7-digit numbers. They progress to using place value arrow cards to write and complete addition and subtraction equations. This includes equations with missing numbers and combined place values. For example, 9,184,507 + ___ = 9,104,507 and 7,580,249 - ___ = 7,500,249

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

- 1,000,000s / 100,000s / 10,000s / 1,000s / 100s / 10s / 1s
- compose / decompose
- combine / partition

Key Representations

Place Value Arrow Cards

Composing

6000000   300000
8000   200   40   7

6,000,000 + 300,000 + 8,000 + 200 + 40 + 7 = 6,308,247

Decomposing

9516038

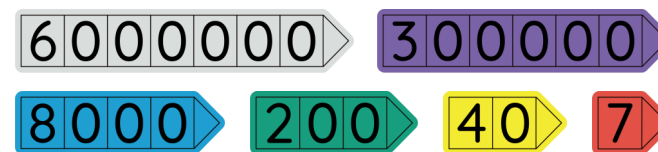9,516,038 - 10,000 = 9,506,038

Common Errors or Misconceptions

- When the order of the parts is varied, pupils may compose incorrectly. For example, 5,000,000 + 10 + 90,000 + 2,000 + 6 + 400,000 = 5,192,640

Pupils will FLOURISH if they can...

- combine and partition 7-digit numbers using standard place value parts.
- 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.