

Master Non-Standard Partitioning (3 digits) A

Rationale

In this practical step, pupils build on their understanding of standard partitioning of 3-digit numbers and learn that numbers can be combined and partitioned in different ways. They will combine non-standard place value parts to compose 3-digit numbers. Then, they will partition into non-standard place value parts to decompose 3-digit numbers. For example, 189 partitions into 150 and 39

Pupils will use Dienes to combine and partition numbers and they will identify which place value parts have been broken.



Key Stem Sentences

- The _____ place value part has been broken.
- _____ combine to make ____
- ____ partitions into _____



Key Vocabulary

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



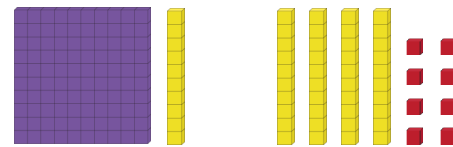
Common Errors or Misconceptions

- Pupils may combine or partition incorrectly. For example, 440 and 27 combine to make 476

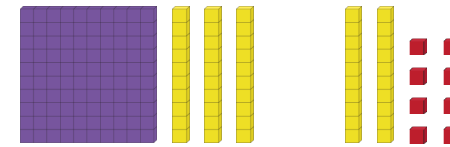


Key Representations

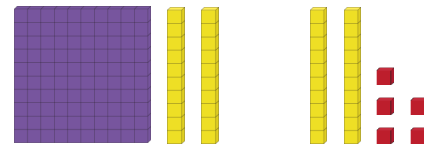
Dienes



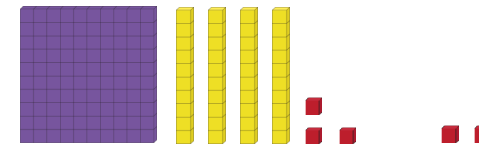
110 and 48 combine to make 158



158 partitions into 130 and 28



120 and 25 combine to make 145



145 partitions into 143 and 2



Pupils will FLOURISH if they can..

- accurately combine and partition 3-digit numbers in different ways.
- begin to explain their understanding using 'Decide, Assess, Back up', given stems and representations.

