

Master Non-Standard Partitioning (2 digits) A

Rationale

In this practical step, pupils begin to understand that 2-digit numbers can be composed and decomposed in different ways. They will combine non-standard place value parts to compose 2-digit numbers. Then, they will partition into non-standard place value parts to decompose 2-digit numbers. For example, 53 partitions into 30 and 23

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



Key Stem Sentences

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



Key Vocabulary

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



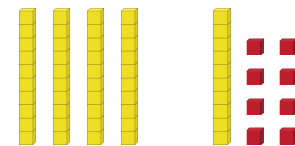
Common Errors or Misconceptions

- Pupils may compose or decompose incorrectly. For example 40 and 27 combine to make 57

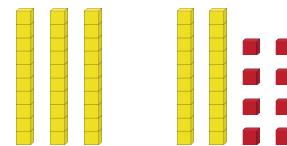


Key Representations

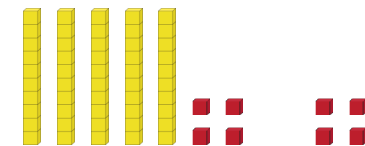
Dienes



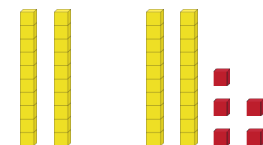
40 and 18 combine to make 58



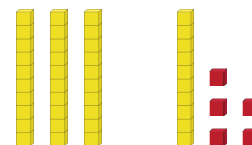
30 and 28 combine to make 58



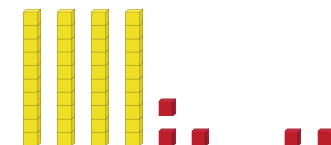
54 and 4 combine to make 58



45 partitions into 20 and 25



45 partitions into 30 and 15



45 partitions into 43 and 2



Pupils will FLOURISH if they can...

- accurately combine and partition 2-digit numbers in different ways.
- explain their understanding using written sentences, concrete apparatus and given representations.

