

# 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



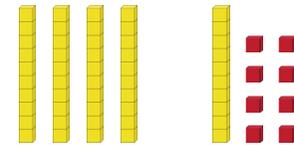
## Common Errors or Misconceptions

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

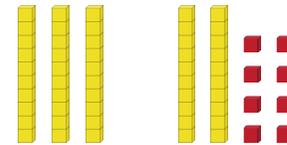


## Key Representations

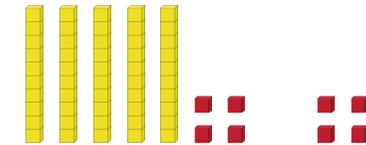
### Dienes



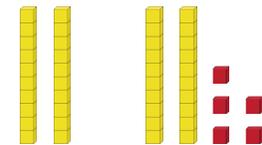
40 and 18 combine to make 58



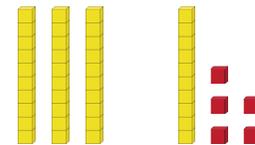
30 and 28 combine to make 58



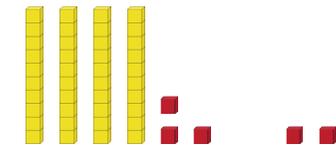
54 and 4 combine to make 58



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.

