

Master Standard Partitioning (5 and 6 digits) A

Rationale

In this step, pupils build on the place value of 5 and 6-digit numbers. They will combine standard place value parts to compose 5 and 6-digit numbers. Then, they partition into standard place value parts to decompose 5 and 6-digit numbers.

Pupils will vary the order of the presentation of the parts in order to fully understand the composition of the number. For example, 60,000, 300, 6,000 and 8 combine to make 66,308



Key Stem Sentences

- _____ combine to make ____
- ____ partitions into _____



Key Vocabulary

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



Common Errors or Misconceptions

- Pupils may compose incorrectly when the order of the parts is varied. For example, 70, 500, 4,000, 50,000 and 3 combine to make 75,453



Key Representations

Gattegno Charts

Composing

| | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10,000 | 20,000 | 30,000 | 40,000 | 50,000 | 60,000 | 70,000 | 80,000 | 90,000 |
| 1,000 | 2,000 | 3,000 | 4,000 | 5,000 | 6,000 | 7,000 | 8,000 | 9,000 |
| 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

80,000, 4,000, 500, 10 and 7 combine to make 84,517

Decomposing

| | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 100,000 | 200,000 | 300,000 | 400,000 | 500,000 | 600,000 | 700,000 | 800,000 | 900,000 |
| 10,000 | 20,000 | 30,000 | 40,000 | 50,000 | 60,000 | 70,000 | 80,000 | 90,000 |
| 1,000 | 2,000 | 3,000 | 4,000 | 5,000 | 6,000 | 7,000 | 8,000 | 9,000 |
| 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

390,265 partitions into 300,000, 90,000, 200, 60 and 5



Pupils will FLOURISH if they can...

- combine standard place value parts into 5 and 6-digit numbers.
- partition 5 and 6-digit numbers into standard place value parts.
- begin to explain their understanding using their own words and representations.

