

Master Standard Partitioning (1 or 2 Decimal Places)

Rationale

In this step, pupils build on the place value of decimal numbers. They will combine integers and 0.1s and 0.01s to compose decimal numbers. Then, they will partition into integers and 0.1s and 0.01s to decompose decimal numbers.

Pupils will vary the order of the presentation of the units in order to fully understand the composition of the number. For example, 0.4, 9 and 0.07 combine to make 9.47



Key Stem Sentences

- _____ combine to make _____
- ____ partitions into _____



Key Vocabulary

- 1s / 0.1s / 0.01s
- compose / decompose
- combine / partition



Common Errors or Misconceptions

- When the order of the units is varied, pupils may compose incorrectly. For example, 0.09, 7 and 0.2 combine to make 9.72



Key Representations

Gattegno Charts

1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

6 and 0.3 combine to make 6.3

1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

7.2 partitions into 7 and 0.2

1	2	3	4	5	6	7	8	9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

5, 0.1 and 0.09 combine to make 5.19

1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

8.04 partitions into 8 and 0.04



Pupils will FLOURISH if they can...

- combine standard place value parts into numbers with 1 or 2 decimal places.
- partition numbers with 1 or 2 decimal places into standard place value parts.
- begin to explain their understanding using their own words and representations.

