Stage 5 Early Additive

Addition & Subtraction

I can solve 2 digit addition and subtraction problems in my head using:

I can solve addition and subtraction problems in my head using my basic facts:

Tidy Numbers
$29 + \square = 52$ as $29 + (1 + 22)$

Place Value
$33 + 16$ as $30 + 10 + 3 + 6$

Back through ten
$84 — 4 — 4 = 76$

Doubles
$8 + 7 = 8 + 8 - 1$

Fives
$8 + 7 = 5 + 3 + 5 + 2$

Making Tens
$8 + 7 = 8 + 2 + 5$

Stage 6 Advanced Additive

Addition & Subtraction

I can solve multi digit addition and subtraction problems by choosing an appropriate mental strategy:

Possible strategies for 396 + 78

Tidy numbers
396 + 78 = 396 + 4 + 70 + 4

Place value partitioning
396 + 78 = 300 + 160 + 14

Equal additions
263—139 = 264—140

Possible strategies for 63—39 = □

Rounding and compensating
63—39 = 63—40 + 1 = 24

Reversibility
63—39 as 39 + □ = 63

Equal additions
63—39 as 64—40 = 24

Reference: Ministry of Education (2008). The Number Framework—Book 1.

Stage 7 Advanced Multiplicative

Addition & Subtraction

I can choose appropriate strategies to solve addition and subtraction problems involving decimals, integers and related fractions:

Using decimal place value
2.65m + 1.96m = □
0.05 + 1.95 = 2.01
so 2.6 + 2.01 = 4.61m

Partitioning fractions
3/4 + 5/8 = (3/4 + 2/8) + 3/8 = 1 3/8

Equivalent operations on Integers
7—⁻3 = 7 + 3 = 10

Using decimal place value
4.95L + 7.5L = □

Compensation
4.95 + 7.5 = 4.45 + 8 = 12.45L

Tidy Numbers
5 + 7.5 = 12.5 so 4.95 + 7.5 = 12.45L

Place Value
4 + 7 = 11 and 0.9 + 0.5 = 1.4
so 4.95 + 7.5 = 12.45L