Stage 6 — Advanced Additive

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Number Knowledge

I can read write and order any number up to 1 000 000. I can read decimals to 3dp. I can say the number 1, 10, 100 and 1000 more or less. I know groupings of 10s and 100s in a 4-digit number. I can round whole numbers to the nearest 10, 100, 1000. I can round decimals to the nearest whole number. I can continue number patterns and sequences.

Addition and Subtraction

I can choose an appropriate strategy from a broad range of strategies:

- Rounding and compensating, e.g. 398 + 612 => 400 + 610 = 1010
 or 117 59 => 117 60 + 1
- Reversibility, e.g. 117 59 <=> 59 + ? = 117
- Equal additions e.g. 117 59 => 118 60
- Place value partitioning, e.g. 324 + 39 = 300 + 50 + 13
- Tidy numbers, e.g. 324 + 39 => 324 + 6 + 30 + 3

I can recall addition and subtraction facts to 20.

I can pick the best

strategy to solve multi-digit

addition and subtraction

problems mentally.

I know groupings with 1000.

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Multiplication and Division

- I can use known facts and mental strategies to solve multiplication and division problems:
- Rounding and compensating
- Reversibility, e.g. $72 \div 9 = 9 \times ? = 72$
- Doubling, e.g. 8 x 3 => double 3 is 6, double 6 is 12, double 12 is 24
- Halving, e.g. $48 \div 4 =$ half of 48 is 24, half of 24 is 12
- Place value, e.g. 23 x 5 = (20 x 5) + (3 x 5)
- Doubling and halving, e.g. $16 \times 4 => 8 \times 8$

Ratio and Proportions

I can use repeated halving and known facts to solve problems with fractions,

e.g. $\frac{3}{4}$ of $24 = \frac{1}{2}$ is 12, $\frac{1}{4}$ is 6 so $\frac{3}{4}$ is 6 + 12 = 18. I can simplify improper fractions, e.g. $\frac{8}{3}$ is $2\frac{2}{3}$. I can solve simple ratio and rate problems by using known facts, e.g. if we know that 1:5 then ?:15 must be 3:15.



can mentally solve multiplication and division problems. I understand how to work with parts < G of numbers I can count forwards and backwards in $\frac{1}{2}$ s, $\frac{1}{3}$ s, $\frac{1}{5}$ s, $\frac{1}{10}$ s. I can read the symbols for any fraction. I can order unit fractions for halves, thirds, quarters, fifths and tenths.