## Year 5 Calculation Expectations

## 2x 3x 4x 5x 6x 7x 8x 9x 10x 11x 12x <br> $x$ and $\div$ by 10,100 and 1000

## Addition

add and subtract whole numbers with more than 4 digits including using formal written methods
add and subtract numbers mentally with increasingly large numbers.
solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
HTh Th Th H T


| 784585 |  |
| :---: | ---: |
| 439418 | 345167 |


|  |  | 5 | 1 | 6 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 7 | 8 | 4 | 5 | 8 | 5 |


| 7845.85 |  |
| :---: | :---: |
| 4394.18 | 3451.67 |

$$
\begin{array}{cc|c|c|c|c}
\hline \text { Th } & \text { H } & \text { T } & 0 & \text { t } & \text { H } \\
\hline 4 & 3 & 9 & 4 & 1 & 8 \\
\hline 3 & 4 & 5 & 1 & 6 & 7 \\
\hline 7 & 8 & 4 & 5 & 8 & 5 \\
\hline
\end{array}
$$

Multiplication
identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for twodigit numbers
multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

## Subtraction

add and subtract whole numbers with more than 4 digits, including using formal written methods
add and subtract numbers mentally with increasingly large numbers.
solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

| 784585 |  |
| :---: | :---: |
| $?$ | 345167 |

$\qquad$

-



|  | -4 | 5 | 1 |  | 6 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 4 | 3 | 9 | 4 | 1 | 8 |  |

Division
multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for
two-digit numbers
multiply and divide whole numbers and those involving decimals by 10, 100 and 1000


Thousands Hundreds
Tens
Ones
Decimal
Tenths
Hundredths
Thousandths
Powers/
Indices
Squared
Factors
Prime
Composite
Remainders

## Fractions

- add and subtract fractions with the same denominator and denominators that are multiples of the same number. read and write decimal numbers as fractions [for example, $0.71=71]$
- recognise the per cent symbol (\%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal

$$
5 \frac{1}{4}=\frac{21}{4}
$$

Language

Metric Imperial Volume Exchange Place holder Multiplier Integer Digit Multiples More/less Negative Compare Round Roman numerals

Estimation Column/ar Operations Scaling Commutative Distributive Equivalent Convert Money Analogue Digital Discrete Continuous Translations

