## Year 6 Calculation Expectations

## 2x $3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 x$ 12x

 SATS: Arithmetic, Reasoning 1 and Reasoning 2
## Addition

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.


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## Subtraction

solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.



Th Th H T O. t h | 7 | 78 | 11 | 48 | 10 | 48 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 6 | 2 | 1 | 9 | 2 | 9 |

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| Th | Th | H | T | $\bigcirc$ | t | n |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | 1 | 9 | 3 | 1 | 2 | 4 | + |
| 3 | 6 | 2 | 1 | 9 | 2 | 9 |  |

## Fractions

- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
Compare and order fractions, including fractions > 1
- Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions - Multiply simple pairs of fractions, writing in its simplest form - Use fractions with division and find equivalents
- Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

use their knowledge of the order of operations to carry out calculations involving the four operations
use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
perform mental calculations, including with mixed operations and large numbers solve problems involving addition, subtraction, multiplication and division.

Multiplication
multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

## Division

divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context
divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context


Language

Millions Thousands Hundreds

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

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

