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## Year 6 Block A Mathematics Overview

## 2023-24

| Number: Place Value <br> (within 10,000,000) | Number: Four Operations |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  | Number: Fractions <br>  <br> Direction |

## Number: Place Value

- Read, write, order and compare numbers up to $10,000,000$ and determine the value of each digit.
- Round any whole number to a required degree of accuracy.
- Use negative numbers in context, and calculate intervals across zero.
- Solve number and practical problems that involve all of the above.


## Number: Four Operations

- Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.
- Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication.
- Divide numbers up to 4 digits by a 2-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 2-digit number using the formal written method of short division, interpreting remainders according to the context.
- Perform mental calculations, including with mixed operations and large numbers.
- Identify common factors, common multiples and prime numbers.
- Use their knowledge of the order of operations to carry out calculations involving the four operations.
- Solve problems involving addition, subtraction, multiplication and division.
- Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.


## Number: Fractions

- Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
- Compare and order fractions, including fractions $>1$.
- Generate and describe linear number sequences (with fractions).
- Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.
- Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example $1 / 4 \times 1 / 2=1 / 8)$.
- Divide proper fractions by whole numbers (for example $1 / 3 \div 2=1 / 6$ ).
- Associate a fraction with division and calculate decimal fraction equivalents (for example, 0.375 ) for a simple fraction (for example $3 / 8$ ).
- Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.


## Geometry: Position \& Direction

- Describe positions on the full coordinate grid (all four quadrants).
- Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

