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Autumn 1 and 2
Year 6

Unit 1. Place value within 10,000,000 (7 Lessons)

Number - number and 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

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Unit 2. Four operations (1) (10 Lessons)

Number - addition and subtraction

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

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

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

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Unit 3. Four operations (2) (9 Lessons)

Number - multiplication and division

recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})

Number - addition, subtraction, multiplication and division

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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

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Unit 4. Fractions (1) (11 Lessons)

Number - fractions (including decimals and percentages)

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

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Unit 5. Fractions (2) (9 Lessons)

Number - addition, subtraction, multiplication and division

use their knowledge of the order of operations to carry out calculations involving the four operations

Number - fractions (including decimals and percentages)

add and subtract fractions with different denominators 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 × 1/2 = 1/8]

divide proper fractions by whole numbers [for example,1/3 ÷ 2 = 1/6].

use written division methods in cases where the answer has up to two decimal places

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Unit 6. Geometry - position and direction (4 Lessons)

Geometry - position and 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