



Progression in Calculations **Division**



Progression in Division











Solve problems involving division including using their knowledge of factors and multiples, squares and cubes.

Divide numbers up to **4 digits by a one-digit number** using the formal written method of short division and interpret remainders appropriately for the context.

Use estimation and inverse to check answers to calculations.

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

<u>Year 6</u>

Choose an appropriate strategy to solve a calculation based upon the numbers involved. Identify common factors, common multiples and prime numbers.

Use partitioning to halve any number.

Perform mental calculations, including with mixed operations and large numbers.

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.

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

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

Use estimation and inverse to check answers to calculations.

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

Solve problems involving addition, subtraction, multiplication and division.



Biscuits are retailed in boxes of nine. How many complete boxes can be sold if we have 3291 biscuits?



280 people are to be seated in rows of 9 at the cinema. How many rows are needed?

Short division:

Formal short division with remainders represented as fractions and decimals.



Long division:

Formal long division with remainders represented as fractions and decimals. 1 x 16 = 16 2 x 16 = 32 3 x 16 = 48 4 x 16 = 64 0 5 4 4 8 6 8 7 1 2 1 $5 \times 16 = 80$ 8 0 Ť X^{6} 1 0 6 4 _ X^{6} 12 0 6 4 -08 8712 ÷ 16 = 544 r8 or 544 ½ or 544.5