# Fluent in Five

## Progression in Objectives Document

### Year 4

# Progression in Objectives

This shows the objectives for Year 4 that can be tested in the arithmetic paper. These are shown alongside Year 3 objectives, which by the start of Year 4 it is assumed all children will be secure in. The Fluent in Five daily challenges are based on children progressing to Year 4 objectives throughout the first term, with the majority of calculations objectives secure by the start of spring term.

# Contents

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# Number and place value

| | Content domain references | End of Year 3 | End of Year 4 |
|---|---|---|---|
| **Number and place value** | **N1**<br>Counting in multiples (NB: Can be used for multiplication questions in arithmetic papers). | Count from 0 in multiples of 4, 8, 50 and 100. | Count in multiples of 2 , 4, 6, 7, 8, 9, 25, 50 and 1,000. |
| | **N2**<br>Reading and writing numbers (NB: This is the highest value numbers that can be tested). | Read and write numbers to 1,000 in numerals and in words. | Read, write, order and compare numbers beyond 1,000. |
| | **N3**<br>Compare and order numbers. | Compare and order numbers from 0 up to 999, use <, > and = signs. | |
| | **N4**<br>Finding 10, 100 more or less (mentally). | Find 10 or 100 more or less than a given number. | Find 10, 100 or 1,000 more of less than a given number. |
| | **N5**<br>Place value in numbers. | Recognise the place value of each digit in a three-digit number (hundreds, tens and ones). | Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones). |

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|---|---|---|---|
| **Number and place value** (continued) | **N6** Negative numbers. (*In calculation paper context, this could only be questions which involve the answer of 0 or a negative number*) | | Count backwards through zero to include negative numbers. |

# The Four Operations

| | Content domain references | End of Year 3 | End of Year 4 |
|---|---|---|---|
| **The four operations** | **C KS1 1**<br>Number bonds and known facts (addition. | Recall and use addition facts to 20 fluently, and derive and use related facts up to 100. | |
| | **C KS1 2**<br>Number bonds and known facts (subtraction). | Recall and use subtraction facts to 20 fluently, and derive and use related facts up to 100. | |
| | **C1**<br>Mental addition and subtraction. | a) Add and subtract numbers with up to three digits and ones. | a) Add and subtract numbers with up to three digits and ones. |
| | | b) Add and subtract numbers with up to three-digits and tens. | b) Add and subtract numbers with up to three digits and tens. |
| | | c) Add and subtract numbers with up to three digits and hundreds. | c) Add and subtract numbers with up three digits and hundreds. |
| | | d) Add and subtract two two-digit numbers (no crossing of tens boundary). | d) Add and subtract two two-digit numbers (crossing of tens boundary). |
| | | e) Add three one-digit numbers. | e) Add three one-digit numbers. |

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|---|---|---|---|
| **The four operations** (continued) | **C2**<br>Written addition and subtraction. | Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. | Add and subtract numbers with up to four digits, using formal written methods of columnar addition and subtraction. |
| | **C3**<br>Multiplication facts. | a) Recall and use multiplication and division facts for the 4 times table. | a) Recall and use multiplication and division facts for the 7 times multiplication table. |
| | | b) Recall and use multiplication and division facts for the 8 times table. | b) Recall and use multiplication and division facts for the 9 times multiplication table. |
| | | c) Recall and use multiplication and division facts for the 3 times table. | c) Recall and use multiplication and division facts for all times tables up to 12 x 12. |
| | | d) Recall and use multiplication and division facts for the 2, 5 and 10 times table. | d) Recall and use multiplication and division facts for the 2, 3, 4, 5, 8 and 10 times table. |

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| | Content domain references | End of Year 3 | End of Year 4 |
|---|---|---|---|
| **The four operations** (continued) | **C4** Known multiplication and division facts. | a) Use place value, known and derived facts to multiply by 0. | a) Use place value, known and derived facts to multiply by 0. |
| | | b) Use place value, known and derived facts to multiply and divide by 1. | b) Use place value, known and derived facts to multiply and divide by 1. |
| | | | c) Use place value, known and derived facts to multiply 3 single-digit numbers. |
| | | | d) Use place value, known and derived facts to multiply multiples of 10 by a single-digit number. |
| | | | e) Find the effect of dividing a one or two-digit number by 10 and 100. |

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|---|---|---|---|
| **The four operations** (continued) | **C8** Known multiplication and division facts. | a) Calculate mathematical statements for multiplication within the known the multiplication tables and write them using the multiplication (×), and equals (=) signs. | a) Write and calculate mathematical statements for multiplication using the multiplication tables that pupils know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. |
| | | b) Calculate mathematical statements division within the known the multiplication tables and write them using the division (÷) and equals (=) signs. | b)  Write and calculate mathematical statements for division using the multiplication tables that pupils know, including for two-digit numbers divided by one-digit numbers, using mental and progressing to formal written methods. |
| | | | c) Solve problems, including missing number problems, involving multiplication and division. |

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# Fractions

| | Content domain references | End of Year 3 | End of Year 4 |
|---|---|---|---|
| **Fractions** | **F1**<br>Fractions of numbers. | Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators (minimum denominators of 2, 3, 4, 5, 8, 10). | Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators (minimum denominators of 2, 3, 4, 5, 6, 7, 8, 9, 10). |
| | **F2**<br>Decimals | | Count up and down in tenths; recognize that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10. |
| | **F3**<br>Types of fractions. | Recognise and use fractions as numbers: unit fractions and non- unit fractions with small denominators. | Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. |
| | **F4**<br>Equivalent fractions. | Recognise & show, using diagrams, equivalent fractions with small denominators. | Recognise and show, using diagrams, families of common equivalent fractions. |
| | **F5**<br>Calculations with fractions. | Add and subtract fractions with the same denominator within one whole [e.g. $\frac{1}{7} + \frac{5}{7} = \frac{6}{7}$ ]. | Add and subtract fractions with the same denominator within one whole (including improper fractions). |

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