



## Year 3 Maths Objectives



### Understanding number

1. Counts from 0 in multiples of 4.
2. Counts from 0 in multiples of 8.
3. Counts from 0 in multiples of 50.
4. Counts from 0 in multiples of 100.
5. Finds 10 more or less than a given number.
6. Finds 100 more or less than a given number.
7. Recognises the place value of each digit in a three-digit number (hundreds, tens, ones).
8. Compares and orders numbers up to 1000.
9. Identifies, represents and estimates numbers using different representations.
10. Reads and writes numbers up to 1000 in numerals and in words.
11. Solves number problems and practical problems involving these ideas.
12. Solves number and practical problems that involve all of the above and with increasingly large positive numbers.

### Addition and subtraction

13. Adds numbers mentally, including a three-digit number and ones.
14. Subtracts numbers mentally, including a three digit number and ones.
15. Add numbers mentally, including a three-digit number and tens.
16. Subtracts numbers mentally, including a three digit number and tens.
17. Add numbers mentally, including a three-digit number and hundreds.
18. Subtracts numbers mentally, including a three digit number and hundreds.
19. Adds numbers with up to three digits, using formal written methods of columnar addition and subtraction.
20. Adds and subtracts numbers with up to three digits, using formal written methods of columnar addition and subtraction.
21. Estimates the answer to a calculation and uses inverse operations to check answers.
22. Re Solves problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

### Multiplication

23. Recalls and uses multiplication and division facts for the 3 multiplication table.
24. Recalls and uses multiplication and division facts for the 4 multiplication table.
25. Recalls and uses multiplication and division facts for the 8 multiplication table.
26. Writes and calculates mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
27. Writes and calculates mathematical statements for division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
28. Solves problems, including missing number problems, involving multiplication including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.
29. Solves problems, including missing number problems, involving division including positive integer scaling problems.

### Fractions and decimals

30. Counts up and down in tenths; recognising that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers or quantities by 10.
31. Recognises, finds and writes fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
32. Recognises and uses fractions as numbers: unit fractions and non-unit fractions with small denominators.
33. Recognises and shows, using diagrams, equivalent fractions with small denominators.
34. Adds fractions with the same denominator within one whole.
35. Subtracts fractions with the same denominator within one whole.
36. Compare and order unit fractions, and fractions with the same denominators.
37. Solves problems that involve all of the above.



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### Measurement

39. Measures lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
41. Compares lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
42. Adds lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
43. Subtracts lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
44. Measures the perimeter of simple 2-D shapes.
45. Adds and subtracts amounts of money to give change, using both £ and p in practical contexts.
46. Tells and writes the time from an analogue clock, including using Roman numerals from I to XII.
47. Tells and writes the time from a 12-hour and 24-hour clocks.
48. Estimates and reads time with increasing accuracy to the nearest minute.
49. Records and compares time in terms of seconds, minutes and hours.
50. Uses vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.
51. Knows the number of seconds in a minute and the number of days in each month, year and leap year.
52. Compares durations of events.

### Shape

53. Draws 2-D shapes.
54. Make 3-D shapes using modelling materials.
55. Recognises 3-D shapes in different orientations and describes them.
56. Recognises angles as a property of shape or a description of a turn.
57. Identifies right angles, recognises that two right angles make a half-turn, three make three quarters of a turn and four a complete turn.
58. Identifies whether angles are greater than or less than a right angle.
59. Identifies horizontal and vertical lines and pairs of perpendicular and parallel lines.

### Statistics

60. Interprets and presents data using bar charts, pictograms and tables.
61. Solves one-step and two-step questions [eg, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.