

## Key vocabulary

**Number:** number, numeral, zero, forwards, backwards, count in ones, twos, fives, tens, threes, fours, eights, fifties, sixes, sevens, nines,, twenty-fives and so on to hundreds, thousands, equal to, equivalent to,

is the same as, more, less, most, least, tally, many, odd, even, multiple of, factor of, sequence, continue, predict, few, pattern, pair, rule, relationship.

**Estimating:** guess, how many, estimate, nearly, roughly, close to, approximate, approximately, about the same as, just over, just under, exact, exactly, too many, too few, enough, not enough, round, nearest, round to the nearest ten, hundred, thousand, round up, round down

**Addition and subtraction:** add, more, make, sum, total, altogether, double, near double, half, halve, one more, two more... ten more... one hundred more, how many more to make ...? how many more is ... than ...? how much more is ...? Subtract, take away, how many are left/left over? how many have gone? one less, two less, ten less ... one hundred less, how many fewer is ... than ...? how much less is ...?

**Multiplication and Division:** multiply, multiplied by, multiple, factor, groups of, times, product, once, twice, three times ... ten times, repeated addition, division, dividing, divide, divided by, divided into, left, left over, remainder.

**Fractions (including decimals)** equivalent fraction, mixed number, numerator, denominator, equal part, equal grouping, equal sharing, parts of a whole, half, two halves, one of two equal parts, quarter, two quarters, three quarters, one of four equal parts, one third, two thirds, one of three equal parts, sixths, sevenths, eighths, tenths ... hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent, proportion.

**Measurement:** size, compare, unit, standard unit, metric unit, measuring scale, division, guess, estimate, enough, not enough, too much, too little, too many, too few, nearly, close to, about the same as, approximately, roughly, just over, just under, millimetre, centimetre, metre, kilometre, mile, length, height, width, depth, breadth, long, short, tall, high, low

wide, narrow, thick, thin, longer, shorter, taller, higher, longest, shortest, tallest, far, further, furthest, near, close, edge, perimeter, area, covers, square centimetre (cm<sup>2</sup>) ruler. mass: big, bigger, small, smaller, weight: heavy/light, heavier/lighter, heaviest/lightest, kilogram, half kilogram, gram, weigh, weighs, balances, heavy, light, heavier than, lighter than, litre, half litre, millilitre, capacity, volume, full, empty, more than, less than, half full, quarter full.

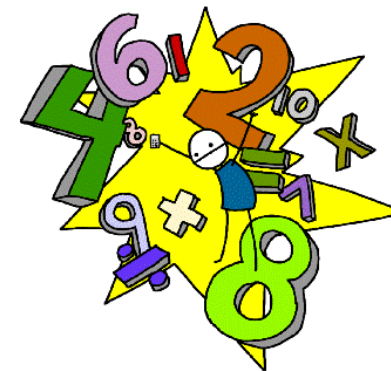
**Geometry:** 2-D, two-dimensional, corner, side, point, pointed, rectangle (including square), rectangular, oblong, rectilinear, circle, circular, triangle, triangular, equilateral triangle, isosceles triangle, scalene, triangle, pentagon, pentagonal, hexagon, hexagonal, heptagon, octagon, octagonal, quadrilateral, parallelogram, rhombus, trapezium, polygon, right-angled, parallel, perpendicular. 3D, face, edge, vertex, vertices, cube, cuboid, pyramid, sphere, hemisphere, spherical, cone., cylinder, cylindrical, prism., triangular prism, tetrahedron, polyhedron.

**Position and Direction:** clockwise, anticlockwise, compass point, north, south, east, west, N, S, E, W, north-east, north-west, south-east, south-west, NE, NW, SE, SW, horizontal, vertical, diagonal, translate, translation, rotate, rotation, angle, is a greater/smaller angle than, degree, right angle, acute angle, obtuse angle, reflection, straight line, ruler, set square, angle measurer, compass.

**STATISTICS:** count, tally, sort, vote, survey, questionnaire, data, graph, block graph, pictogram, represent, group, set, list, table, chart, bar chart, frequency table, Carroll diagram, Venn diagram, label, title, axis, axes, diagram, most popular, most common.

# Key Skills

# Maths



# Year 4



### *Place Value*

1. I can count in multiples of 6, 7, 9, 25, 1000.
2. I can find 1000 more or less than a given number.
3. I can count backwards through zero to include negative numbers.
4. I can recognise the place value of each digit in a four digit number.
5. I can order and compare numbers beyond 1000.
6. I can identify and represent numbers using connection maps.
7. I can round any number to the nearest 10, 100 or 1000.
8. I can identify the value of the digits in the answer as ones, tenths and hundredths.

### *Addition and Subtraction*

9. I can find pairs which equal 100.
10. I can add to the next multiple of 100 and subtract to the previous multiple of 100.
11. I can subtract by counting on to find a difference.
12. I can add several numbers mentally.
13. I can subtract mentally.
14. I can add numbers with up to four digits using the formal written methods.
15. I can subtract numbers with up to four digits using the formal written methods.
16. I can estimate and use inverse operations to check answers to a calculation.
17. I can solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why.

### *Multiplication and Division*

18. I can recall multiplication and division facts for multiplication tables up to 12 x 12.
19. I can use place value, known and derived facts to multiply and divide mentally.
20. I can find the effect of dividing a one- or two-digit number by 10 and 100.
21. I can multiply together three numbers.
22. I can recognise and use factor pairs and commutativity in mental calculations.
23. I can multiply two-digit number by a two-digit number using grid method.
24. I can multiply three-digit number by a one-digit number using a vertical method.

### *Fractions*

25. I can recognise and show, using diagrams, families of common equivalent fractions.
26. I can count up and down in hundredths.
27. I can recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10.
28. I can solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities.
29. I can add and subtract fractions with the same denominator.
30. I can recognise and write decimal equivalents of any number of tenths or hundredths.
31. I can recognise and write decimal equivalents to  $\frac{1}{4}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ .

### *Fractions (continued...)*

32. I can round decimals with 1 decimal place to the nearest whole number.
33. I can compare numbers with the same number of decimal places up to 2 decimal places.
34. I can solve simple measure and money problems involving fractions and decimals to 2 decimal places. I can solve simple measure and money problems involving fractions and decimals to 2 decimal places.

### *Measurement*

35. I can convert between different units of measure e.g. km to m; hour to minute.
36. I can measure and calculate the perimeter of rectangles in cm and m.
37. I can find the area of rectangles by counting squares.
38. I can estimate, compare and calculate different measures, including money.
39. I can read and write analogue and digital 12 hour clocks.
40. I can read, and write analogue and digital 24 hour clocks.
41. I can convert between 12 and 24hour time.
42. I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.

### *Shape*

43. I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
44. I can identify acute and obtuse angles
45. I can compare and order angles up to two right angles by size.
46. I can identify lines of symmetry in 2D shapes presented in different orientations.
47. I can complete a simple symmetrical figure with a specific line of symmetry.

### *Position and Direction*

48. I can describe positions on a 2D grid as co-ordinates in the first quadrant.
49. I can describe movements between positions as translations of a given unit to the left/right and up/down.
50. I can plot specified points and draw sides to complete a given polygon.

### *Statistics*

51. I can interpret and present data using appropriate graphical methods, including bar charts and time graphs.
52. I can solve comparison, sum and difference problems in various types of graph.

