MATHEMATICS AREs

2026 – 2027

YEAR 6

Number, place value, approximation and estimation/rounding	
1. I can add and subtract 10, 100, 1000 up to 10,000,000.	
2. I can read, write, order and compare numbers to 10,000,000.	
3. I can determine the value of each digit in numbers up to 10,000,000.	
4. I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10000 and 100000.	
5. I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	
6. I can use a number line to 10,000,000.	
Calculations	
7. I can add and subtract integers.	
8. I can identify common factors, common multiples and prime numbers.	
9. I understand and can identify square and cube numbers.	
10. I can perform mental calculations, including with mixed operations and large numbers.	
11. I can multiply multi-digit numbers up to 4 digits by a 2-digit whole number using the formal written method of long multiplication.	
12. I can divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division.	
13. I can divide numbers up to 4 digits by a 2-digit whole number and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.	
14. I can divide numbers up to 4 digits by a 1-digit number using the formal written method of short division.	
15. I can use my knowledge of the order of operations to carry out calculations involving the four operations.	
GDS 1. I can move beyond squared and cubed numbers to calculate problems such as X x 10^{n} where n is positive.	
GDS 2. I can multiply all integers, (using efficient written methods) including mixed numbers and negative numbers.	
Fractions, decimals and percentages	
16. I can identify and find equivalent fractions.	
17. I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.	
18. I can place fractions on a number line	
19. I can compare and order fractions, including fractions >1.	
20. I can order and compare fractions, decimals and percentages	
21. I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.	
22. I can multiply simple pairs of proper fractions, writing the answer in the simplest form.	
23. I can divide proper fractions by whole numbers.	
24. I can multiply fractions by integers	
25. I can find a fraction or percentage of an amount.	
26. I can find the whole from a fraction of an amount.	
27. I can associate a fraction with division to calculate decimal fractions equivalents for a simple fraction.	
28. I can identify the value of each digit to 3 decimal places.	
29. I can multiply numbers by 10, 100 and 1000 giving answers up to 3 decimal places.	
30. I can divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.	
31. I can multiply 1-digit numbers with up to 2 decimal places by integers.	
32. I can divide 1-digit numbers with up to 2 decimal places by integers.	
33. I can recall and use equivalences between simple fractions and decimals including in different contexts.	
34. I can recall and use equivalences between simple fractions, and percentages, including in different contexts.	

35. I can recall and use equivalences between decimals and percentages, including in different contexts.	
GDS 3. I can compare, order and convert between fractions, decimals and percentages, for example, in contexts related to science, history or geography learning	
Ratio and Proportion	
36. I can solve problems involving the relative sizes of two quantities, where missing values can be found using integer multiplication and division facts.	
37. I can solve problems involving the calculation of percentages and the use of percentage comparisons.	
38. I can solve problems involving similar shapes where the scale factor is known or can be found.	
39. I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	
GDS 4. I can create a scaled model of an historical or geographical structure showing an acceptable degree of accuracy using known measurements.	
Algebra	
40. I can express missing number problems algebraically.	
41. I can use simple formulae.	
42. I can generate and describe linear number sequences.	
43. I can find pairs of numbers that satisfy an equation with two unknowns.	
44. I can enumerate possibilities of combinations of two variables.	
GDS 5. I can recognise an arithmetic progression and find the *nth* term.	
Measurement	
45. I can use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation of up to 3 decimal places.	
46. I can convert between miles and kilometres.	
47. I understand and can use imperial measures	
48. I recognise that shapes with the same areas can have different perimeters and vice versa.	
49. I can calculate the area of parallelograms and triangles.	
50. I can calculate, estimate and compare volume of cubes and cuboids, using standard units.	
GDS 6. I can use a formula for measuring the area of a shape, such as a rectangle and triangle to work out the area of an irregular shape in the school environment	
GDS 7. I can use the four operations with mass, length, time, money and other measures, including the use of decimal quantities.	
GDS 8. I can calculate the costs and time involved of a visit to a destination in another part of the world relating to on-going learning in history or geography.	
Geometry	
51. I can measure with a protractor	
52. I recognise and draw simple 3D shapes, including nets.	
53. I can find unknown angles in any triangles, quadrilaterals and regular polygons.	
54. I recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	
55. I can illustrate and name parts of circles, including radius, diameter and circumference.	
56. I know the diameter is twice the radius.	
57. I can draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes.	
58. I can describe positions on the full co-ordinate grid (all four quadrants).	
Statistics	
59. I can read, interpret and draw line graphs.	
60. I can read, interpret and draw pie charts including with percentages.	
61. I can solve problems involving line graphs and pie charts.	
62. I can calculate and interpret the mean as an average.	
63. I can read, interpret bar charts.	