

Year 6 Lea Maths Ladders

Number, place value, approximation and estimation/rounding

1. I can read, write, order and compare numbers up to 10,000,000.
2. I can determine the value of each digit in numbers up to 10,000,000.
3. I can round any whole number to a required degree of accuracy.
4. I can use negative numbers in context, and calculate intervals across zero.
5. I can solve number problems and practical problems with the above.

Calculations

6. I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
7. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
8. I can identify common factors, common multiples and prime numbers.
9. I can perform mental calculations, including with mixed operations and large numbers.
10. I can multiply multi-digit numbers up to 4 digits by a 2 digit whole number using the formal written method of long multiplication.
11. I can divide numbers up to 4 digits by a 2 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.
12. I can divide numbers up to 4 digits by a 2 digit number using the formal **written** method of short division where appropriate.
13. I can solve problems involving addition, subtraction, multiplication and division.
14. I can use my knowledge of the order of operations to carry out calculations

Autumn = pink, Spring = yellow, Summer = green

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Year 6 Lea Maths Ladders

Fractions, decimals and percentages

14. I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.
15. I can compare and order fractions, including fractions >1 .
16. I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
17. I can multiply simple pairs of proper fractions, writing the answer in the simplest form.
18. I can divide proper fractions by whole numbers.
19. I can associate a fraction with division to calculate decimal fractions equivalents for a simple fraction.
20. I can identify the value of each digit to 3 decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.
21. I can multiply 1-digit numbers with up to 2 decimal places by whole numbers.
22. I can use written division methods in cases where the answer has up to 2 decimal places.
23. I can solve problems which require answers to be rounded to specified degrees of accuracy.
24. I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Ratio and proportion

25. I can solve problems involving the relative sizes of two quantities, where missing values can be found using integer multiplication and division facts.
26. I can solve problems involving the calculation of percentages and the use of percentage comparisons.
27. I can solve problems involving similar shapes where the scale factor is known or can be found.
28. I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Year 6 Lea Maths Ladders

Measurement

29. 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.
30. I can convert between miles and kilometres.
31. I recognise that shapes with the same areas can have different perimeters and vice versa.
32. I can calculate the area of parallelograms and triangles.
33. I recognise when it is possible to use the formulae for the area of shapes.
34. I can calculate, estimate and compare volume of cubes and cuboids, using standard units.
35. I recognise when it is possible to use the formulae for the volume of shapes.
36. I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.

Algebra

37. I can express missing number problems algebraically.
38. I can use a simple formulae.
39. I can generate and describe linear number sequences.
40. I can find pairs of numbers that satisfy an equation with two unknowns.
41. I can enumerate possibilities of combinations of two variables.

Year 6 Lea Maths Ladders

Geometry - properties of shapes

42. I can compare and classify geometric shapes based on the properties and sizes.
43. I can describe simple 3D shapes.
44. I can draw 2D shapes given dimensions and angles.
45. I recognise and build simple 3D shapes, including making nets.
46. I can find unknown angles in any triangles, quadrilaterals and regular polygons.
47. I recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
48. I can illustrate and name parts of circles, including radius, diameter and circumference.
49. I know the diameter is twice the radius.

Geometry - position and direction

50. I can draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes.
51. I can describe positions on the full co-ordinate grid (all four quadrants).

Statistics

52. I can interpret and construct pie charts and line graphs and use these to solve problems
53. I can calculate and interpret the mean as an average.

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