Year 5 Lea Maths Ladders

Number, place value, approximation and estimation/rounding

1. I can count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.
2. I can read, write, order and compare numbers to at least 1,000,000.
3. I can determine the value of each digit in numbers up to 1,000,000.
4. I can read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.
5. I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10000 and 100000.
6. I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.
7. I can solve number problems and practical problems with the above.

Measurement

8. I can solve problems involving converting between units of time.
9. I can convert between different units of metric measure.
10. I understand and use approximate equivalences between metric units and common imperial units, such as inches, pounds and pints.
11. I can measure and calculate the perimeter of composite rectilinear shapes in cm and m.
12. I can calculate and compare the area of rectangles (incl squares), and including using standard units (cm^2 and cm^3) to estimate the area of irregular shapes.
13. I can estimate volume and capacity.
14. I can use all four operations to solve problems involving money using decimal notation, including scaling.

Autumn = pink, Spring = yellow, Summer = green

Update June 2016

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Calculations

16. I can add and subtract numbers mentally with increasingly large numbers.
17. I can add and subtract whole numbers with more than 4 digits, including using formal written methods.
18. I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
19. I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
20. I can identify multiples and factors, including finding all factor pairs or a number and common factor pairs of two numbers.
21. I use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
22. I can establish whether a number up to 100 is prime and recall prime numbers up to 19.
23. I recognise and use square numbers and cube numbers, and the notation for squared and cubed.
24. I can multiply and divide numbers mentally drawing on known facts.
25. I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.
26. I can multiply numbers up to 4 digits by a 1-digit or 2-digit number using a formal written method, including long multiplication for 2-digit numbers.
27. I can divide numbers up to 4 digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context.
28. I can solve problems involving multiplication and division including using knowledge of factors and multiples, squares and cubes.
29. I can solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
30. I can solve problems involving multiplication

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Fractions, decimals and percentages

31. I can recognise mixed numbers and improper fractions and convert from one form to the other.
32. I can write mathematical statements >1 as a mixed number.
33. I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
34. I can compare and order fractions whose denominators are multiples of the same number.
35. I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.
36. I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
37. I can read and write decimal numbers as fractions.
38. I recognise and can use thousandths and relate them to tenths, hundredths and decimal equivalents.
39. I can round decimals with 2 decimal places to the nearest whole number and 1 decimal place.
40. I can read, write, order and compare numbers with up to 3 decimal places.
41. I can solve problems involving numbers up to 3 decimal places.
42. I recognise the percent symbol and understand that percent relates to 'number parts per hundred'.
43. I can write percentages as a fraction with denominator hundred, and as a decimal.
44. I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, 1/5, 2/5, 4/5 and those fractions with a denominator or a multiple of 10 or 25.

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Geometry – properties of shapes

45. I can use the properties of rectangles to deduce related facts and find missing lengths and angles.
46. I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
47. I can identify 3D shapes, including cubes and other cuboids, from 2D representations.
48. I know angles are measured in degrees.
49. I can estimate and compare acute, obtuse and reflex angles.
50. I can identify angles at a point and one whole turn.
51. I can identify angles at a point on a straight line and $\frac{1}{2}$ a turn.
52. I can identify other multiples of 90°.
53. I can draw given angles and measure them in degrees.

Geometry – position and direction

54. I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

Statistics

55. I can complete, read and interpret information in tables, including timetables.
56. I can solve comparison, sum and difference problems using information presented in a line graph.

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