

# St John Learning Ladder

Name:

Year:6

Multiplication	Fractions	Place Value	Properties of Number	Problem solving
17) I can use long multiplication to multiply THTU or HTU x TU.	21) I can divide proper fractions by a whole number e.g. $1/3 \div 2 = 1/6$	23) I can use negative numbers in context and calculate intervals across zero.	10) I can make generalisations about number patterns and express them algebraically.	29) I can solve a variety of number problems using formulae and algebraic equations.
18 ) I can use related facts to multiply multiples of 10 and 100 e.g. $2 \times 3 = 6$ $200 \times 30 = 6000$	22) I can multiply simple pairs of proper fractions and write the answer in its simplest form e.g. $\frac{1}{4} \times \frac{1}{2} = 1/8$	24) I can round any whole number to a required degree of accuracy.	11) I can generate and describe linear number sequences.	30) I can find pairs of numbers that satisfy an equation with two unknowns.
19) I can multiply numbers with up to 2 decimal places by a whole numbers.	23) I can add and subtract fractions and mixed numbers with different denominators using the idea of equivalence.	25) I can read, write order and compare numbers up to 10 000 000 and determine the value of each digit.	12) I can explore the order of operations using brackets.	31) I can express missing number problems algebraically.
Division	24) I can compare and order any set of fractions, proper or improper, or mixed numbers including those with different denominators.	Measures	13) I can identify common factors, common multiples and prime numbers, with increasingly large numbers.	32) I can solve multi-step word problems and investigations involving all 4 operations from a large range of contexts.
11) I can divide numbers up to 4 digits by a 2 digit whole number using long division.	25) I can use common multiples to express fractions in the same denomination.	24) I can convert between miles and km.	Decimals	33) I can round and estimate as a means of predicting and checking the order of magnitude of my answers to a decimal calculation.
12) I can express a quotient as a fraction, decimal or rounded according to context.	26) I can simplify fractions using common factors.	25) I can recognise when it is possible to use formulae to calculate volume.	14) I can round answers accurately. E.g. $12.37 \rightarrow 12.4$	34) I can check that my answer in all calculations is reasonable.
13 I can divide numbers up to 4 digits by a 2 digit whole number using expanded long division.	Shape	26) I can calculate, estimate and compare volume of cubes and cuboids using standard units e.g. $\text{cm}^3$	15) I can calculate more complex decimal equivalents such as $3/8 = 0.375$ using my understanding of the equivalence between fractions and decimals.	35) I can solve addition and subtraction multi-step problems in context, with 3, 4 or 5 digit numbers, deciding which operations to use and why.
Statistics	24) I can recognise vertically opposite angles and use this to calculate missing angles.	27) I can solve problems involving the calculation and conversion of units of measure using decimal notation up to three decimal places.	16) I can associate a fraction with division and calculate decimal equivalents of common fractions such as halves, quarters and fifths.	Perimeter and Area
18) I can calculate the mean as an average and understand when it is appropriate to find the mean of a set of data.	25) I can illustrate and name parts of a circle including radius, diameter and circumference and know that diameter is twice the radius.	28) I can use, read , write and convert between standard units of measure using decimal notation up to 3 decimal places.	17) I can multiply and divide numbers by 10, 100 and 1000 giving answers up to 3 decimal places.	10) I can recognise when it is possible to use formulae to calculate area.
				11) I can calculate the area of parallelograms and triangles.
				12) I can investigate relationships between area and perimeter e.g. shapes with the same area can have different perimeters and vice versa.

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## Statistics (continued)

## Shape (continued)

## Position and Direction

## Percentage and Ratio

19) I can solve problems using the data from line graphs (including conversion graphs) and pie charts including ones I have constructed myself.

26) I can compare and classify geometric shapes based on their size and properties and can find unknown angles in any triangle, quadrilateral or regular polygon.

11) I can predict missing co-ordinates using the properties of shapes.

3) I can divide a quantity in a given ratio (recognising the proportion as a fraction of the whole).

20) I can construct a pie chart.

27) I can recognise, describe and build simple 3D shapes including making nets.

12) I can reflect simple shapes in the axes.

4) I can identify that a problem can be written as a ratio and solve problems using this relationship.

21) I can interpret a pie chart.

28) I can accurately draw 2D shapes using given angles and dimensions.

13) I can draw and translate simple shapes on a 4 quadrant grid.

5) I can solve problems involving similar shapes where the scale factor is known or can be found.

14) I can label the axes of a grid in all 4 quadrants and describe a position on the grid.

6) I can solve % problems in a variety of contexts such as comparing % (e.g. best buys)