

**Wk Progression Focus**

**Weekly Summary**

**Strands**

**Objectives**

18 **Addition and subtraction**  
 Week 18 focuses on solving addition and subtraction problems involving money and decimals.

Solve addition and subtraction multi-step problems in shopping contexts, and add and subtract money using column addition and counting up; add and subtract decimal numbers choosing an appropriate strategy, and add decimal numbers with different numbers of places using column addition; use mathematical reasoning to investigate and solve problems, and solve subtractions of decimal numbers with different numbers of places (2-places) using counting up

**MAS** Mental addition and subtraction; **WAS** Written addition and subtraction; **PRA** Problem solving, reasoning and algebra

- **MAS.78** Solve subtractions using appropriate mental strategies
- **MAS.82** Subtract mixed decimal numbers using appropriate mental strategies
- **MAS.80** Add mixed decimal numbers using appropriate mental strategies
- **WAS.81** Add and subtract money using column addition
- **WAS.73** Add decimal numbers using column addition
- **WAS.82** Choose the most appropriate method to add and subtract decimal numbers
- **PRA.77** Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- **PRA.78** Use mathematical reasoning to investigate and solve problems and puzzles, justify their reasoning
- **PRA.74** Solve problems involving numbers with up to 3 decimal places

19 **Statistics and data**  
 Week 19 focuses on data

Calculate and understand the mean average; construct and interpret distance/time line graphs where intermediate points

**STA** Statistics; **DPE** Decimals, percentages and their

- **STA.77** Calculate and interpret the mean as an

representation and manipulation, including line graphs, pie charts and the use and calculation of averages.

have meaning, including conversion line graphs; understand pie charts are a way of representing data using percentages, interpret and construct pie charts

equivalence to fractions

average

- **STA.81** Interpret, construct and solve problems using distance/time line graphs where intermediate points have meaning
- **STA.82** Interpret, construct and solve problems using a conversion graph to convert measures
- **STA.83** Interpret and construct pie charts and use these to solve problems
- **DPE.83** Solve problems involving the calculation of percentages and the use of percentages for comparison

20 **Coordinate geometry; angles**

Week 20 focuses on position on a 4-quadrant coordinate grid, with polygons being plotted, translated and reflected; the week concludes with angle theorems.

Read and plot coordinates in all four quadrants, draw and translate simple polygons using coordinates and find missing coordinates for a vertex on a polygon; draw and reflect simple polygons in both the x-axis and y-axis using coordinates; find unknown angles around a point, on a line, in a triangle or vertically opposite and in polygons where diagonals intersect

**GPD** Geometry: position and direction; **NPV** Number and place value; **PRA** Problem solving, reasoning and algebra; **GPS** Geometry: properties of shapes

- **GPD.77** Describe and mark positions on the full co-ordinate grid (all four quadrants)
- **GPD.80** Translate a polygon by adding or subtracting a number to one co-ordinate
- **GPD.81** Find missing co-ordinates for a vertex on a polygon
- **GPD.82** Reflect simple shapes in both the x-axis and the y-axis
- **GPD.83** Move a shape to a diagonally opposite quadrant by changing the signs of all its co-ordinates
- **GPD.84** Draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes
- **NPV.81** Round any whole number to a required

21 **Multiplication and division**  
 Week 21 focuses on the use of written algorithms in multiplying and dividing large numbers; both long and short versions of these methods are taught.

Multiply 4-digit numbers including those with two decimal places by 1-digit numbers; use long multiplication to multiply 4-digit numbers by numbers between 10 and 30, including those with two decimal places; revise using short division to divide 4-digit by 1-digit and 2-digit numbers including those which leave a remainder, and divide the remainder by the divisor to give a fraction, simplifying where possible, and make approximations; use long division to divide 4-digit by 2-digit numbers, and use a systematic approach to solve problems

**WMD** Written multiplication and division; **PRA** Problem solving, reasoning and algebra

- degree of accuracy
- **PRA.75** Solve problems involving addition, subtraction, multiplication and division
- **GPS.82** Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
- **WMD.64** Use short multiplication to multiply 4-digit numbers by 1-digit numbers
- **WMD.76** Use short multiplication to multiply money, e.g. £46.29 by 1-digit numbers
- **WMD.86** Use long multiplication to multiply 3- and 4-digit numbers with 2 decimal places by numbers between 10 and 30
- **WMD.83** Use short division to divide 4-digit numbers by 1-digit numbers, including those with a remainder
- **WMD.87** Use long division to divide 4-digit numbers by 2-digit numbers
- **PRA.75** Solve problems involving addition, subtraction, multiplication and division
- **PRA.81** Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
- **PRA.83** Generalise relationships between

22 **Algebra; ratio**  
 Week 22 focuses on the use of

Generalise a relationship between pairs of numbers, express simple formulae in words, then using letters; describe and

**PRA** Problem solving, reasoning and algebra; **FRP**

generalisations and simple formula, including to find the  $n$ th term in a sequence; then moves on to ratio.

continue sequences, generalise to predict the tenth term, begin to generalise a term in a sequence using  $n$  to stand for the number of the term in a sequence; describe ratio and use ratio to solve problems; find fractions and simplify ratios

Fractions, ratio and proportion

numbers

- **PRA.85** Express and solve missing number problems algebraically
- **PRA.86** Use simple formulae
- **PRA.84** Begin to generalise a term in a sequence using  $n$  to stand for the number of the term in a sequence
- **PRA.87** Describe and continue linear number sequences
- **FRP.87** Describe ratio and use ratio to solve problems
- **FRP.88** Solve problems involving the relative size of two quantities where missing values can be found by using integer multiplication and division facts