

River View Primary School

Mathematics

Year 5

Spring

What will I know by the end of the unit?

Multiplication and Division

Multiply numbers up to four-digits by a one-digit or two-digit number using a formal written method, including long multiplication for two-digit numbers. Multiply and divide numbers mentally drawing upon known facts. Divide numbers up to four-digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including the understanding of the equals sign.

Fractions, Decimals and Percentages

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Read and write decimal numbers as fractions. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Round decimals with two decimal places to the nearest whole number and to one decimal place. Read, write, order and compare numbers with up to three decimal places. Solve problems involving numbers up to three decimal places. Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred' and write percentages as a fraction with denominator 100 and as a decimal. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.

Perimeter and Area

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Calculate and compare the area of rectangles (including squares) in standard units (cm^2 and m^2). Estimate the area of irregular shapes.

Statistics

Complete, read and interpret information in tables, including timetables. Solve comparison, sum and difference problems using information presented in a line graph.

Technical Vocabulary

integer	a negative or positive whole number
factor	a number which will divide exactly into another number
multiple	the product of a given number multiplied by another number
product	the result when two or more numbers are multiplied
dividend	a number to be divided by another number
divisor	a number by which another number is divided
quotient	the result when one number is divided by another number
equation	a statement of equality between two expressions
numerator	the number above the line in a fraction
denominator	the number below the line in a fraction
decimal	a number that is not a whole; a number whose whole number part and the fractional part is separated by a decimal point
percentage	a proportion of a whole number expressed as a value out of a hundred
tenth	one part in 10 equal parts ($\frac{1}{10}$, 0.1)
hundredth	one part in 100 equal parts ($\frac{1}{100}$, 0.01)
thousandth	One part in 1,000 equal parts ($\frac{1}{1000}$, 0.001)
sum	the result when two or more numbers are added together
difference	the result of subtracting one number from another