Year 5 Curriculum	Number and place value	Addition and subtraction	Multiplication and Division	Fractions
Autumn term 	• Count on and back in 10s, 100s and 1000s from any number crossing boundaries • Read and write numbers to 1 million • Know the value of ach digit in any number up to 1 million • Partition numbers in different ways • Order numbers up to 1 million • To know 10, 100, 1000 more or less than any number up to 1 million • Count forwards and backwards in steps of powers of 10 • Round numbers to the nearest 10, 100, 1000, 10000, 100,000	• Recall decimal bonds (tenths) with a total of 1 • Mentally, add decimals to 1 and 10… 3.6 + 6.4 = 10 • To add two or three 4 digit numbers using the column written method • Add and Subtract whole numbers with up to 5 digits using the column method (with exchanging) • Solve 2 step word problems in a range of contexts • Mentally, add and subtract multiples of 10, 100, 1000, 10000 and 100,000 • Use a written method to add and subtract decimals up to 2 decimal places	• Rehearse and apply multiplication and division facts to 12 x 12 • Understand and identify common multiples • Know that a factor is a whole number that divides exactly into another whole number • Identify factors of two digit numbers by deriving division facts • Identify and recognise square numbers • Solve problems of multiplication and division including knowledge of factors, multiples and square numbers • Multiply and divide by multiples of 10, 100 and 1000 with whole and decimal numbers • Mentally, multiply and divide by 10 and 100 • Multiply a 2 digit number by a single digit (mentally) 23 x 6 = • Multiply and divide numbers with up to 4 digits by a single digit using a written method	• Count in simple fractions • To know that fractions can express proportion 3/5 relates to 3 out of 5 • Identify equivalent fractions including tenths and hundredths • Understand that multiplying and dividing the numerator/denominator by the same number creates an equivalent fraction • Order fractions where the denominators are multiples of the same number 2/3, 4/9, 7/12 • Place fractions on a number line • To understand what a proper, mixed and improper fraction is • To convert improper fractions to mixed numbers and vice versa • To compare and order decimals with up to three decimal places • To round decimals with two decimal places to the nearest whole number and to one decimal place • To solve problems involving fractions and decimals, explaining reasoning

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Spring term	• Count on and back in 10s, 100s and 1000s from any number crossing boundaries • Read and write numbers to 1 million • Know the value of ach digit in any number up to 1 million • Partition numbers in different ways • Order numbers up to 1 million • To know 10, 100, 1000 more or less than any number up to 1 million • Count forwards and backwards in steps of powers of 10 • Round numbers to the nearest 10, 100, 1000, 10000, 100,000 • Count forwards and backwards through zero • Compare negative numbers when using the < > symbols • Place negative numbers on a number line and order a set of positive and negative numbers • Solve problems involving negative numbers in different contexts • To know the Roman numerals: I = 1 V=5 X=10 L=50 C=100 D=500 • To read and write numbers in Roman numerals • Order and compare numbers written In Roman numerals	• Recall decimal bonds (tenths and hundredths) with a total of 1 • To know what must be added to make the next whole number 3.6 + ____ = 4 • Mentally, add decimals to make 1 and 10… 3.6 + 6.4 = 10 • Add and Subtract whole numbers with up to 5 digits using the column method (with exchanging) • Solve 2 step word problems in a range of contexts • Mentally, add and subtract multiples of 10, 100, 1000, 10000 and 100,000 • Use a written method to add and subtract decimals up to 2 decimal places • To understand that 10 tenths make a whole and 10 hundredths makes a tenth • Solve missing number calculations using knowledge of number facts, rounding and inverses • Solve multi-step word problems in a range of contexts including money and measures choosing the most appropriate method	• Rehearse and apply multiplication and division facts to 12 x 12 • Understand and identify common multiples • Know that a factor is a whole number that divides exactly into another whole number • Identify factors of two digit numbers by deriving division facts • Identify and recognise square numbers and squares of multiples of 10 • To understand the definition of a prime number as a number having only 2 factors • Solve problems of multiplication and division including knowledge of factors, multiples and square numbers • Multiply and divide by multiples of 10, 100 and 1000 with whole and decimal numbers • Mentally, multiply and divide by 10 and 100 • Multiply a 2 digit number by a single digit (mentally) 23 x 6 = • Multiply and divide numbers with up to 4 digits by a single digit and now a 2 digit number using a written method 364 x 25 = • Divide numbers with up to 4 digits by a single digit using short division, expressing remainders as fractions • Solve division problems interpreting non-integer answers in different ways such as with remainders, fractions (mixed numbers) or by rounding	• Count on and backwards in simple fractions, improper fractions and with mixed numbers • To add and subtract fractions with the same denominator • Add and subtract fractions with denominators that are multiples of the same number (applied to problem solving) • To know that fractions can express proportion 3/5 relates to 3 out of 5 • Identify equivalent fractions including tenths and hundredths • Understand that multiplying and dividing the numerator/denominator by the same number creates an equivalent fraction • Order fractions where the denominators are multiples of the same number 2/3, 4/9, 7/12 • Place fractions on a number line • To understand what a proper, mixed and improper fraction is • To convert improper fractions to mixed numbers and vice versa • To compare and order decimals with up to three decimal places • To round decimals with two decimal places to the nearest whole number and to one decimal place • To solve problems involving fractions and decimals, explaining reasoning • To find fractions of numbers and quantities using division and multiplication • Read and write decimal numbers as fractions 19/100 = 0.19 and vice versa 30/100 = 0.3 8/10 = 0.8 • To know that 1/10=10/1000=100/1000 And 1/100=10=1000 • Use equivalent fractions involving tenths, hundredths, thousandths to write the decimal equivalent 1/5=2/10=0.2 • Reinforce the equivalence between fractions and decimals
Summer term	• Count on and back in 10s, 100s and 1000s from any number crossing boundaries and	• Recall decimal bonds (tenths and hundredths) with a total of 1	• Rehearse and apply multiplication and division facts to 12 x 12	• Count on and backwards in simple fractions, improper fractions and with mixed numbers

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	• negative numbers • Extend and find missing numbers in a given sequence involving decimals and fractions • Describe and extend sequences involving negative numbers • Extend linear and non-linear sequences • Solve problems involving sequences and explain reasoning • Read and write numbers to 1 million • Know the value of ach digit in any number up to 1 million • Partition numbers in different ways • Order numbers up to 1 million • To know 10, 100, 1000 more or less than any number up to 1 million • Count forwards and backwards in steps of powers of 10 • Round numbers to the nearest 10, 100, 1000, 10000, 100,000 • Count forwards and backwards through zero • Compare negative numbers when using the < > symbols • Place negative numbers on a number line and order a set of positive and negative numbers • Solve problems involving negative numbers in different contexts • To know the Roman numerals: I = 1 V=5 X=10 L=50 C=100 D=500 • To read and write numbers in Roman numerals • Order and compare numbers written In Roman numerals • Find a number halfway between two given numbers (-15 and 7) • Estimate the point on a blank number line using your knowledge of place value	• To know what must be added to make the next whole number $3.6 + \_\_\_\_ = 4$ • Mentally, add decimals to make 1 and 10… $3.6 + 6.4 = 10$ • Add and Subtract whole numbers with up to 5 digits using the column method (with exchanging) • Solve 2 step word problems in a range of contexts • Mentally, add and subtract multiples of 10, 100, 1000, 10000 and 100,000 • Use a written method to add and subtract decimals up to 2 decimal places • To understand that 10 tenths make a whole and 10 hundredths makes a tenth • Solve missing number calculations using knowledge of number facts, rounding and inverses • Solve multi-step word problems in a range of contexts including money and measures choosing the most appropriate method • Find the difference by counting up using an empty number line • Use and apply the column written method to solve multi-step problems in a range of contexts • To add and subtract decimal numbers mentally • To use rounding to check the accuracy of your answer when solving problems • To use knowledge of addition and place value to reason about number	• Understand and identify common multiples • Know that a factor is a whole number that divides exactly into another whole number • Identify factors and common factors of two digit numbers by deriving division facts • Identify and recognise square numbers and squares of multiples of 10 • To understand the definition of a prime number as a number having only 2 factors • Identify prime numbers within 100 • Solve problems of multiplication and division including knowledge of factors, multiples and square numbers • To recognise cubed numbers • Multiply and divide by multiples of 10, 100 and 1000 with whole and decimal numbers • Mentally, multiply and divide by 10 and 100 • Mentally, multiply and divide drawing upon known facts • Multiply a 2 digit number by a single digit (mentally) $23 \times 6 =$ • Multiply and divide numbers with up to 4 digits by a single digit and now a 2 digit number using a written method $364 \times 25 =$ • Multiply a 2 digit number by 2 digit number using long multiplication • Divide numbers with up to 4 digits by a single digit using short division, expressing remainders as fractions • Solve division problems interpreting non-integer answers in different ways such as with remainders, fractions (mixed numbers) or by rounding • Solve problems involving multiplication and division including rates of pay	• To add and subtract fractions with the same denominator • Add and subtract fractions with denominators that are multiples of the same number (applied to problem solving) • To know that fractions can express proportion 3/5 relates to 3 out of 5 • Identify equivalent fractions including tenths and hundredths • Understand that multiplying and dividing the numerator/denominator by the same number creates an equivalent fraction • Order fractions where the denominators are multiples of the same number 2/3, 4/9, 7/12 • Place fractions on a number line • To understand what a proper, mixed and improper fraction is • To convert improper fractions to mixed numbers and vice versa • To compare and order decimals with up to three decimal places • To round decimals with two decimal places to the nearest whole number and to one decimal place • To solve problems involving fractions and decimals, explaining reasoning • To find fractions of numbers and quantities using division and multiplication • Read and write decimal numbers as fractions 19/100 = 0.19 and vice versa 30/100 = 0.3 8/10 = 0.8 • To know that 1/10=10/1000=100/1000 And 1/100=10=1000 • Use equivalent fractions involving tenths, hundredths, thousandths to write the decimal equivalent 1/5=2/10=0.2 • Reinforce the equivalence between fractions and decimals • To recognise the % sign as number of parts per 100 • Convert percentages/fractions and decimals • To identify a percentage of a shape • To solve problems involving percentages • To find 25%, 50% and 75% • To find 1%, 10% and other multiples of 10% by dividing by 10 • To multiply proper fractions and mixed numbers by whole numbers • Connect multiplication by a fraction to using fractions as operators (1/4 of 8 is the same as ¼ x 8)