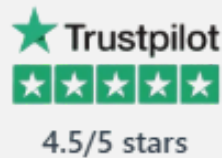


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MATHS EXPLORERS

MODULE -1 ADDITION AND SUBTRACTION

COMPOSE AND CALCULATE WITH DECIMALS INCLUDING COLUMN ADDITION AND SUBTRACTION

- Explain that decimal numbers with tenths can be composed additively
- Explain that decimal numbers with tenths can be composed multiplicatively
- Use known facts and mental strategies to calculate with decimal numbers within and across a whole
- Use representations to round a decimal number with tenths to the nearest whole number



REASONING WITH LARGE WHOLE NUMBERS

- Identifying the place value of digits in 5-digit numbers
- Rounding 5-digit numbers to the nearest 100, 1000 and 10 000
- Identifying the place value of the digits in 6-digit numbers
- Rounding 6-digit numbers to the nearest 1000, 10 000 and 100 000
- Solving problems involving Roman Numerals



MATHS EXPLORERS

MODULE -1 ADDITION AND SUBTRACTION

MONEY: APPLY EFFICIENT STRATEGIES WHEN CALCULATING WITH MONEY

- Explain and represent whole pounds and pence as a quantity of money
- Explain how to compare amounts of money without converting
- Explain how to compare amounts of money without converting
- Convert quantities of money between pounds and pence
- Use knowledge of subtraction to calculate change when paying with whole pounds or notes
- Use and explain the most efficient strategies when adding quantities of money
- Use and explain the most efficient strategies when subtracting quantities of money
- Calculate change when purchasing several items
- Solve a range of problems, including finding change



MATHS EXPLORERS

MODULE -2 MULTIPLICATION AND DIVISION

USE KNOWLEDGE OF DECIMALS TO SOLVE PROBLEMS IN DIFFERENT CONTEXTS: LENGTH

- Explain that different lengths can be composed additively and multiplicatively
- Use knowledge of decimal place value to solve problems in different contexts
- Read and write numbers with up to 3 decimal places
- Solve problems with numbers with up to 3 decimal places
- Use Knowledge of place value to calculate with decimal numbers up to and bridging one tenth



MULTIPLICATION BY PARTITIONING LEADING TO SHORT MULTIPLICATION (3 BY 1-DIGIT)

- Multiply a 3-digit by a 1-digit number with no regroup
- Multiply a 3-digit by a 1-digit number with one or two regroup
- Multiply a 3-digit by a 1-digit number with multiple regroup



MATHS EXPLORERS

MODULE -2 MULTIPLICATION AND DIVISION

DIVISION BY PARTITIONING LEADING TO SHORT DIVISION (2 AND 3-DIGITS BY 1-DIGIT)

- Divide a 2-digit by a 1-digit number using representations with exchanging and remainders
- Divide a 3-digit by a 1-digit number using short division
- Use efficient division strategies to solve problems
- Solve problems involving multiplication and division in a range of contexts



MATHS EXPLORERS

MODULE -3 PLACE VALUE

UNDERSTAND TENTHS AS PART OF A WHOLE, REPRESENT AND CALCULATE MENTALLY

- Describe and represent tenths as a decimal number
- Describe and write decimal numbers with tenths in different ways
- Compare and order decimal numbers with tenths
- Deepening understanding of place value in integers



UNDERSTAND HUNDREDTHS AS PARTS OF A WHOLE AND REPRESENT

- Describe and represent hundredths as a decimal number
- Compare and order decimal numbers with hundredths
- Explain that decimal numbers with hundredths can be partitioned in different ways



CONVERTING UNITS

- Convert from larger to smaller units of measure
- Convert from smaller to larger units of measure
- Use known facts to carry out conversions that correspond to 10 and 100 parts
- Solve problems involving different units of measure



MATHS EXPLORERS

MODULE -3 PLACE VALUE

FRACTIONS, DECIMALS AND PERCENTAGES

- Converting between proper and improper fractions
- Add and subtract fractions with a common denominator
- Add and subtract fractions with a common denominator: Improper fractions
- Add and subtract fractions fluency
- Multiply a fraction by a whole number
- Multiply a mixed number fraction
- Understanding percentage
- Percentage as a fraction and decimal
- Finding percent of a quantity
- Finding percent of a quantity: Problem solving



MATHS EXPLORERS

MODULE -4 GEOMETRY AND MEASURE.

UNDERSTAND THE CONCEPT OF AREA

- Explain what area is
- Explain how to make different shapes with the same area
- Explain how to compare the area of different shapes
- Solve problems involving counting and drawing the areas of different shapes



LINK AREA OF RECTANGLES TO MULTIPLICATION

- Measure the area of flat shapes using square centimetres
- Explain how to calculate the area of a rectangle using multiplication
- Calculate the areas of rectangles using multiplication
- Use knowledge of area to solve problems in a range of contexts



UNDERSTAND THE CONCEPT OF VOLUME

- Explain what volume is in a range of contexts
- Explain how to calculate the volume of a cuboid and a cube
- Explain how to calculate the volume of compound shapes
- Use knowledge of calculating volume to solve problems in a range of contexts



MATHS EXPLORERS

MODULE -4 GEOMETRY AND MEASURE

MULTIPLY 3 OR MORE NUMBERS (COMMUTATIVE AND ASSOCIATIVE LAWS)

- Apply commutative and associative laws to simplify multiplications
- Explain the reasons for changing two-factor multiplication calculations to three-factor calculations
- Apply the commutative and associative laws to simplify volume calculations
- Apply the commutative and associative laws to simplify problems in a range of contexts



ANGLES: COMPARE, NAME, ESTIMATE AND MEASURE ANGLES

- Review understanding and identification of right angles
- Use the terms acute, obtuse and reflex when comparing angles to a right angle
- Use the unit of degrees as a standard unit to measure angles
- Angles in quadrilaterals
- Reasoning about angles in polygons



MATHS EXPLORERS

MODULE -5 STATISTICS

NEGATIVE NUMBERS

- Represent a change story using addition and subtraction symbols
- Interpret numbers greater than and less than zero in different contexts
- Read and write negative numbers
- Explain how the value of a number relates to its position from zero
- Explain how the value of a number relates to its position from zero
- Identify and place negative numbers on a number line
- Use knowledge of positive and negative numbers to calculate intervals
- Use knowledge of positive and negative numbers to interpret graphs
- Solve problems involving positive and negative numbers in a range of contexts



MATHS EXPLORERS

MODULE -6 COMPARING MEASUREMENTS, FRACTIONS, AND DECIMALS

COMPARE AND DESCRIBE MEASUREMENTS USING KNOWLEDGE OF MULTIPLICATION AND DIVISION

- Compare and describe lengths using knowledge of multiplication
- Solve comparison and change problems using multiplication
- Compare and describe lengths using knowledge of division
- Solve comparison and change problems using division
- Compare and describe measurements involving mass and capacity
- Compare and describe measurements involving time and money
- Use knowledge of multiplication and division to solve comparison and change problems



MATHS EXPLORERS

MODULE -6 COMPARING MEASUREMENTS, FRACTIONS, AND DECIMALS

COMPARING FRACTIONS USING EQUIVALENCE AND DECIMALS

- Use representations to describe and compare two fractions
- Use representations to describe and compare fractions
- Explain the relationship between numerators and denominators in equivalent fractions
- Explain the relationship between numerators and denominators across equivalent fractions
- Explain and represent how to divide 1 into different numbers of equal parts
- Identify and describe patterns in the number system
- Use knowledge of common equivalents to compare fractions and decimals



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