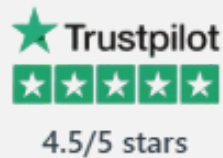
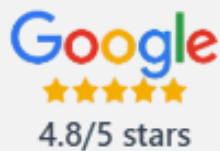


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MATHS FLUENCY FINDERS

MODULE -1 SOLVE ADDITIVE PROBLEMS USING PART-PART-WHOLE, EQUIVALENCE, AND COMPENSATION; APPLY STRATEGIES FOR DECIMALS, PLACE VALUE, AND COMMON FACTORS AND MULTIPLES.

USE KNOWLEDGE OF PART-PART-WHOLE STRUCTURE TO SOLVE ADDITIVE PROBLEMS

- Explain how a combination of different parts can be equivalent to the same whole
- Identify structures within stories and use knowledge of structures to create stories
- Identify the missing part using knowledge of relationships and structures
- Use a model to interpret a part-part-whole problem with three addends
- Create stories to match structures presented in a model
- Use knowledge of additive structure to solve problems



MULTIPLES OF 1000

- Explain how ten thousand can be composed
- Explain how one hundred thousand can be composed
- Explain that 10,000 is composed of 5,000s, 2,500s and 2,000s
- Explain that 100,000 is composed of 50,000s, 25,000s and 20,000s

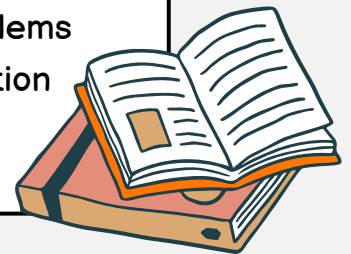


MATHS FLUENCY FINDERS

MODULE -1 SOLVE ADDITIVE PROBLEMS USING PART-PART-WHOLE, EQUIVALENCE, AND COMPENSATION; APPLY STRATEGIES FOR DECIMALS, PLACE VALUE, AND COMMON FACTORS AND MULTIPLES.

USE EQUIVALENCE AND COMPENSATION TO SIMPLIFY AND SOLVE ADDITION CALCULATIONS

- Using redistribution with addition of integers
- Using redistribution with addition of decimal fractions
- Using balanced equations to calculate redistribution
- Use a balanced equation to calculate unknown parts
- Explain how adjusting one part affects the sum
- Solve addition calculations mentally by using known facts
- Solve addition calculations mentally by using known facts in a range of contexts
- Solve calculations with missing parts
- Use equivalence and compensation strategies to solve problems
- Use equivalence and compensation strategies to solve addition problems in a range of contexts



MATHS FLUENCY FINDERS

MODULE -1 SOLVE ADDITIVE PROBLEMS USING PART-PART-WHOLE, EQUIVALENCE, AND COMPENSATION; APPLY STRATEGIES FOR DECIMALS, PLACE VALUE, AND COMMON FACTORS AND MULTIPLES.

USE EQUIVALENCE AND COMPENSATION TO SIMPLIFY AND SOLVE SUBTRACTION PROBLEMS

- Explain and represent constant difference for subtraction
- Explain how constant difference can make written calculations more efficient
- Use constant difference to balance equations and find unknowns
- Explain how increasing or decreasing the minuend affects the difference
- Solve subtraction calculations mentally by using known facts
- Explain how adjusting the minuend can make mental calculation easier
- Explain how adjusting the subtrahend affects the difference: reduction structure
- Explain how adjusting the subtrahend affects the difference: partitioning
- Calculate the difference using knowledge of an adjusted subtrahend: difference structure
- Use equivalence and compensation strategies to solve subtraction problems in a range of contexts



MATHS FLUENCY FINDERS

MODULE -1 MULTIPLICATION AND DIVISION (SOLVE PROBLEMS WITH DECIMALS IN DIFFERENT CONTEXTS, INCLUDING LENGTH, AND WORK WITH DECIMAL NUMBERS UP TO 3 DECIMAL PLACES. MULTIPLY AND DIVIDE USING PARTITIONING STRATEGIES FOR 3-DIGIT BY 1-DIGIT NUMBERS, INCLUDING SHORT MULTIPLICATION AND DIVISION WITH REMAINDERS.)

MULTIPLICATION AND DIVISION

- Represent decimal numbers in a variety of ways
- Place Value to 3 Decimal Places
- Multiply and divide by 10, 100 and 1000 involving decimals
- Understand the terms 'common factor' and 'common multiple' as properties of a number
- Multiply a decimal number by a whole number



MULTIPLYING AND DIVIDING BY 2 DIGIT NUMBER

- Explain how to multiply a 3-digit number by a 2-digit number
- Explain how to use long multiplication to multiply two 2-digit numbers regrouping ones to tens
- Explain how to use long multiplication to multiply a 3-digit by a 2-digit number
- Explain how to use long multiplication to multiply a 4-digit by a 2-digit number
- Dividing numbers with up to 4 digits by multiples of 10
- Dividing by a 2-digit divisor including using long division
- Dividing by a 2-digit divisor with a remainder
- Use long division with fraction remainders
- Use long division with decimal remainders



MATHS FLUENCY FINDERS

MODULE -2 UNDERSTAND PLACE VALUE UP TO 10 MILLION, ROUND AND COMPARE NUMBERS UP TO 8 DIGITS, AND SOLVE PROBLEMS USING EFFICIENT STRATEGIES AND COLUMN METHODS.

UNDERSTAND PLACE VALUE WITHIN NUMBERS WITH UP TO 7 DIGITS

- Powers of 10 and their multiples
- Composition of one million and 10 million
- Problem solving using knowledge of the composition of powers of 10
- Read and write numbers up to 10 million
- Representing numbers up to 10 million



ROUNDING AND SOLVING PROBLEMS WITH NUMBERS UP TO 7 DIGITS

- Rounding 7-digit numbers to the nearest million
- Rounding seven-digit numbers to any power of 10
- Solving calculations efficiently
- Explore mental and written strategies to solve problems
- Solve problems explaining which strategy is most efficient



MATHS FLUENCY FINDERS

MODULE -2 UNDERSTAND PLACE VALUE UP TO 10 MILLION, ROUND AND COMPARE NUMBERS UP TO 8 DIGITS, AND SOLVE PROBLEMS USING EFFICIENT STRATEGIES AND COLUMN METHODS.

INTEGERS & DECIMALS

- Understanding other powers of ten within one-million
- Reading and writing 7-digit numbers
- Understanding how the digits in a number indicate its structure
- Compare and order numbers to ten million
- Rounding to a required degree of accuracy
- Estimating and rounding contexts
- Strategies for addition
- Strategies for subtraction
- Applying addition and subtraction
- Addition and subtraction problems



MATHS FLUENCY FINDERS

MODULE -3 DESCRIBE AND REPRESENT RATIOS, CALCULATE UNKNOWNNS USING MULTIPLICATION AND DIVISION, AND SOLVE SCALING PROBLEMS WITH MAPS, POLYGONS, AND SCALE FACTORS.

RATIO AND PROPORTION

- Describe the relationship between two factors in a ratio context
- Representing ratio in different ways
- Explain how to represent ratio and to calculate unknown values
- Use multiplication and division to calculate unknown values in ratio problems
- Solve problems involving ratio
- Explain how and why scaling is used to make and interpret maps
- Use knowledge of multiplication and division to solve scaling problems in a range of contexts
- Solve problems involving scaling and ratio
- Identify and describe the relationship between regular polygons using scale factors
- Identify and describe the relationship between irregular polygons using scale factors



MATHS FLUENCY FINDERS

MODULE -4 REPRESENT, MULTIPLY, AND DIVIDE FRACTIONS (INCLUDING IMPROPER ONES) AND SOLVE PROBLEMS USING ALL FOUR OPERATIONS.

FRACTION

- Fractions: Represent multiplication with proper fractions
- Fractions: Multiply pairs of proper fractions
- Fractions: Divide a proper fraction by an integer
- Fractions: Multiply and divide with improper fractions
- Fractions: Solve fraction problems with the four operations



MATHS FLUENCY FINDERS

MODULE -5 SOLVE MISSING ANGLES, CLASSIFY SHAPES, AND WORK WITH PERCENTAGES, RATIOS, AND SCALE FACTORS; REPRESENT DATA USING LINE GRAPHS AND PIE CHARTS.

MISSING ANGLES AND LENGTHS

- Find the value of missing angles
- Compare and classify triangles
- Compare and classify quadrilaterals
- Find unknown angles in triangles
- Find the value of missing angles in quadrilaterals



PERCENTAGES AND STATISTICS

- Understand what a percentage is and its connection to fractions
- Recall and use equivalences between fractions, decimals and percentages
- Solve problems involving the calculation of percentages of amounts
- Solve problems involving the use of percentages for comparison
- Interpret and Construct Line Graphs
- Interpret and Compare Pie Charts
- Collecting and representing data



MATHS FLUENCY FINDERS

MODULE -5 SOLVE MISSING ANGLES, CLASSIFY SHAPES, AND WORK WITH PERCENTAGES, RATIOS, AND SCALE FACTORS; REPRESENT DATA USING LINE GRAPHS AND PIE CHARTS.

PROPORTION PROBLEMS

- Use fractions to express proportions
- Use ratio to express relationships
- Solve problems involving scale factor in shapes
- Ratio problems



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