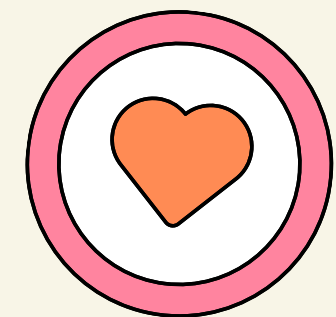


WELCOME TO EASY TEACH ACADEMY

**CURRICULUM YEAR 7
BY NIRAL DEVNATH**

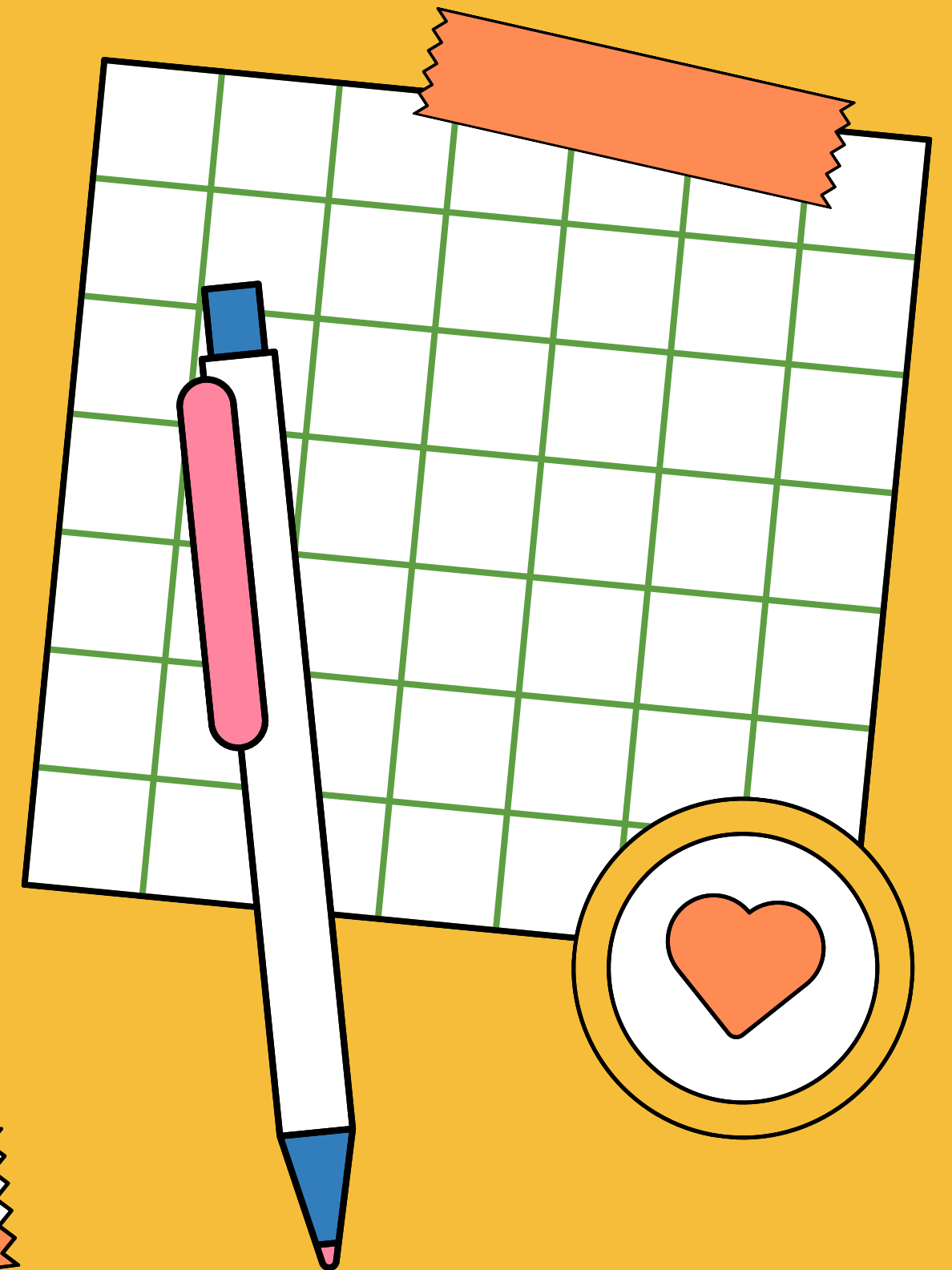
[HTTPS://EASYTEACHACADEMY.COM/](https://easyteachacademy.com/)



YEAR 7 MATHEMATICS

The Year 7 Mathematics curriculum equips students with essential skills for real-life applications, covering numbers, fractions, decimals, and indices. It includes financial mathematics with topics like percentages and interest, along with time and measurement skills.

Students explore geometry, statistics, and probability to enhance their analytical abilities. The curriculum also introduces algebra through simple equations, fostering critical thinking and problem-solving skills to tackle everyday challenges confidently



CURRICULUM YEAR 7 MATHS

Number Theory

- Prime or composite
- Prime factorisation
- Multiplicative inverses
- Divisibility rules
- Highest common factor
- Lowest common multiple
- HCF and LCM: word problems
- Classify numbers



Curriculum Year 7 MATHS

Integers

1. Understanding integers
2. Integers on number lines
3. Graph integers on horizontal and vertical number lines
4. Compare integers
5. Order integers



CURRICULUM YEAR 7 MATHS

Operations with integers

1. Integer addition rules
2. Add integers using counters
3. Add integers using number lines
4. Add integers
5. Integer subtraction rules
6. Subtract integers using counters
7. Subtract integers using number lines
8. Subtract integers
9. Integer addition and subtraction rules



Curriculum Year 7 MATHS

Operations with Integers

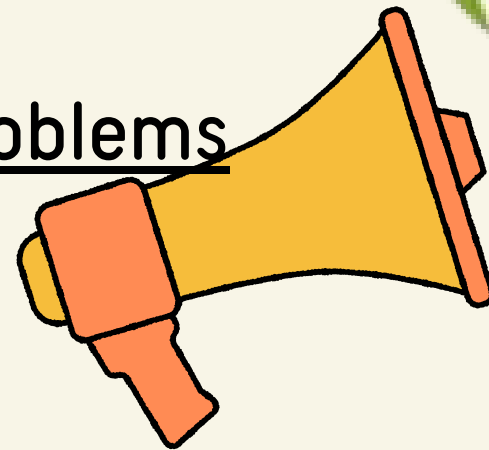
1. Add and subtract integers using counters
2. Add and subtract integers
3. Complete addition and subtraction number sentences with integers
4. Add and subtract integers: word problems
5. Integer multiplication rules
6. Multiply integers
7. Integer division rules
8. Divide integers
9. Evaluate numerical expressions involving integers



CURRICULUM YEAR 7 MATHS

Multiply and divide fractions

1. Multiply unit fractions by whole numbers using number lines
2. Multiply unit fractions by whole numbers using models
3. Multiples of fractions
4. Multiply fractions by whole numbers using arrays
5. Multiply fractions by whole numbers using number lines
6. Multiplying fractions by whole numbers: choose the model
7. Multiply fractions and whole numbers
8. Multiply fractions and whole numbers: word problems
9. Multiply two unit fractions using models
10. Multiply two fractions using models
11. Multiply fractions
12. Multiply fractions: word problems



Curriculum Year 7 MATHS

Decimals

1. Decimal numbers review
2. Compare and order decimals
3. Decimal number lines
4. Round decimals

Operations with decimals

1. Add and subtract decimals
2. Add and subtract decimals: word problems
3. Estimate sums and differences of decimals
4. Multiply decimals and whole numbers
5. Multiply decimals and whole numbers: word problems



CURRICULUM YEAR 7 MATHS

Operations with decimals

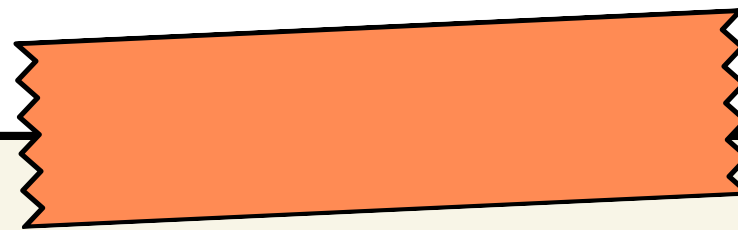
1. Multiply decimals and whole numbers: word problems
2. Multiply decimals using grids
3. Multiply decimals
4. Estimate products of decimals
5. Divide decimals by whole numbers
6. Divide decimals by whole numbers: word problems
7. Divide decimals
8. Estimate quotients of decimals
9. Multiply and divide decimals: word problems
10. Add, subtract, multiply and divide decimals: word problems



Curriculum Year 7 MATHS

Fractions and mixed numbers

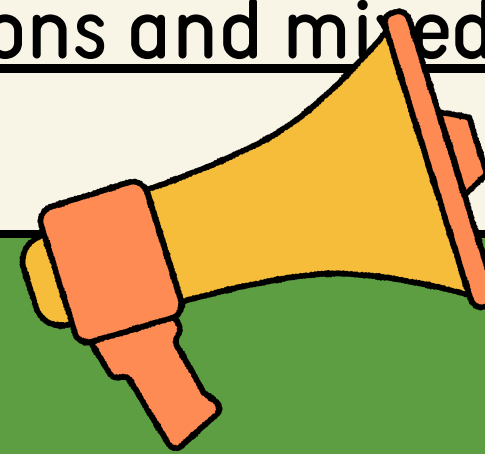
1. Understanding fractions: word problems
2. Graph equivalent fractions on number lines
3. Equivalent fractions
4. Write fractions in lowest terms
5. Fractions: word problems with graphs and tables
6. Lowest common denominator
7. Compare and order fractions
8. Compare fractions: word problems
9. Convert between mixed numbers and improper fractions
10. Compare mixed numbers and improper fractions
11. Round mixed numbers



CURRICULUM YEAR 7 MATHS

Add and subtract fractions

1. Add and subtract fractions with like denominators
2. Add and subtract fractions with like denominators: word problems
3. Add fractions with unlike denominators using models
4. Add fractions with unlike denominators
5. Subtract fractions with unlike denominators using models
6. Subtract fractions with unlike denominators
7. Add and subtract fractions with unlike denominators: word problems
8. Add and subtract mixed numbers
9. Add and subtract mixed numbers: word problems
10. Inequalities with addition and subtraction of fractions and mixed numbers
11. Estimate sums and differences of mixed numbers



Curriculum Year 7 MATHS

Rational numbers

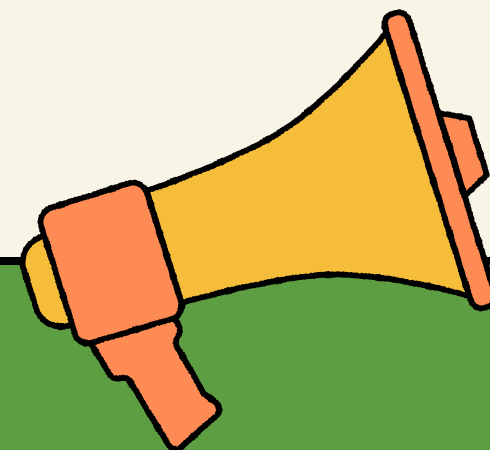
1. Fractions on number lines
2. Convert between decimals and fractions or mixed numbers
3. Compare rational numbers
4. Put rational numbers in order
5. Add and subtract rational numbers
6. Apply addition and subtraction rules
7. Multiply and divide rational numbers
8. Apply multiplication and division rules



CURRICULUM YEAR 7 MATHS

Exponents and square roots

1. Understanding exponents
2. Evaluate powers
3. Solve equations with variable exponents
4. Powers of ten
5. Powers with decimal and fractional bases
6. Evaluate numerical expressions involving exponents
7. Square roots of perfect squares
8. Estimate square roots



Curriculum Year 7 MATHS

Ratios, rates and proportions

1. Write a ratio
2. Write a ratio: word problems
3. Identify equivalent ratios Write an equivalent ratio
4. Equivalent ratios: word problems
5. Unit rates
6. Compare ratios: word problems Compare rates: word problems
7. Ratios and rates: word problems
8. Do the ratios form a proportion?
9. Do the ratios form a proportion: word problems
10. Solve proportions: word problems
11. Estimate population size using proportions



CURRICULUM YEAR 7 MATHS

Percents

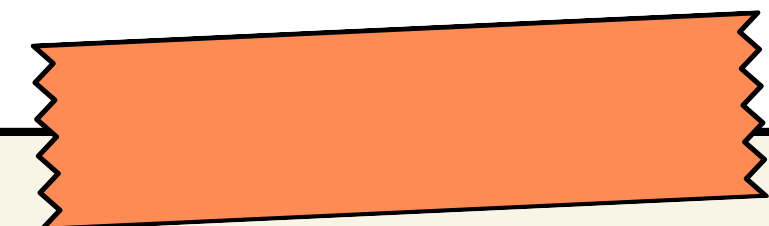
1. What percentage is illustrated?
2. Convert fractions to percents using grid models
3. Convert between percents, fractions and decimals: word problems
4. Compare percents to fractions and decimals
5. Estimate percents of numbers
6. Solve percent problems using grid models
7. Solve percent problems using strip models
8. Percents of numbers and money amounts
9. Find what percent one number is of another
10. Find what percent one number is of another: word problems
11. Solve percent equations
12. Solve percent equations: word problems



Curriculum Year 7 MATHS

Consumer maths

1. Which is the better coupon?
2. Add, subtract, multiply and divide money amounts: word problems
3. Price lists
4. Unit prices
5. Unit prices: find the total price
6. Percent of a number: GST, discount and more
7. Find the percent: discount and mark-up
8. Sale prices: find the original price
9. Multi-step problems with percents



CURRICULUM YEAR 7 MATHS

Problem-solving and Estimation

1. Estimate to solve word problems
2. Multi-step word problems
3. Guess-and-check word problems
4. Use Venn diagrams to solve problems
5. Find the number of each type of coin
6. Elapsed time word problems



Curriculum Year 7 MATHS

Units of measurement

1. Estimate metric measurements
2. Compare and convert metric units
3. Metric mixed units
4. Convert between square metres and hectares
5. Convert square and cubic units of length
6. Convert between cubic meters and litres
7. Precision



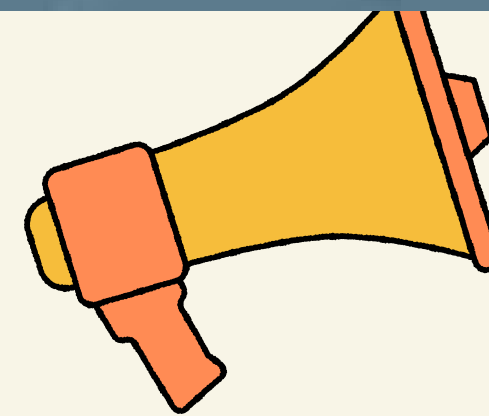
CURRICULUM YEAR 7 MATHS

Coordinate plane

1. Coordinate plane review
2. Graph points from a table
3. Quadrants and axes
4. Follow directions on a coordinate plane

Number sequences

1. Identify arithmetic and geometric sequences
2. Arithmetic sequences
3. Geometric sequences
4. Number sequences: mixed review
5. Number sequences: word problems
6. Evaluate variable expressions for number sequences
7. Write variable expressions for arithmetic sequences



Curriculum Year 7 MATHS

Expressions and Properties

1. Write variable expressions: one operation
2. Write variable expressions: two or three operations
3. Write variable expressions: word problems
4. Evaluate linear expressions
5. Evaluate multi-variable expressions
6. Evaluate nonlinear expressions
7. Identify terms and coefficients
8. Sort factors of expressions
9. Properties of addition and multiplication
10. Add using properties



CURRICULUM YEAR 7 MATHS

Expressions and Properties

1. Multiply using properties
2. Multiply using the distributive property.
3. Solve equations using properties
4. Write equivalent expressions using properties
5. Add and subtract like terms
6. Add, subtract and multiply linear expressions
7. Factors of linear expressions
8. Identify equivalent linear expressions using algebra tiles
9. Identify equivalent linear expressions



Curriculum Year 7 MATHS

One-variable equations

1. Which x satisfies an equation?
2. Write an equation from words
3. Model and solve equations using algebra tiles
4. Write and solve equations that represent diagrams
5. Solve one-step equations
6. Solve two-step equations
7. Solve equations: complete the solution
8. Solve equations: word problems



CURRICULUM YEAR 7 MATHS

Two-variable equations

1. Does (x, y) satisfy the equation?
2. Solve word problems involving two-variable equations
3. Complete a table for a two-variable relationship
4. Write a two-variable equation
5. Identify the graph of an equation
6. Interpret a graph: word problems
7. Identify graphs: word problems
8. Rate of change
9. Constant rate of change



Curriculum Year 7 MATHS

Two-dimensional figures

1. Identify and classify polygons
2. Lines, intervals and rays
3. Parallel, perpendicular and intersecting lines
4. Name, measure and classify angles
5. Acute, obtuse and right triangles
6. Scalene, isosceles and equilateral triangles
7. Classify triangle
8. Parallel sides in quadrilaterals
9. Identify parallelograms
10. Identify trapeziums
11. Identify rectangles
12. Identify rhombuses



CURRICULUM YEAR 7 MATHS

Two-dimensional figures

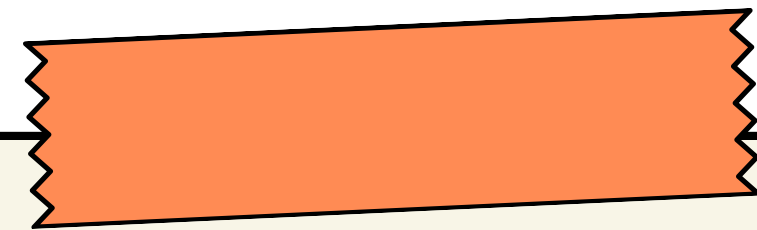
1. Classify quadrilaterals I
2. Classify quadrilaterals II
3. Graph triangles and quadrilaterals
4. Find missing angles in triangles and quadrilaterals
5. Sums of angles in polygons
6. Identify complementary, supplementary, vertical, adjacent and congruent angles
7. Find measures of complementary, supplementary, vertical and adjacent angles
8. Transversal of parallel lines
9. Find lengths and measures of bisected intervals and angles
10. Parts of a circle



Curriculum Year 7 MATHS

Symmetry and transformations

1. Symmetry
2. Identify reflections, rotations and translations
3. Translations: graph the image
4. Translations: find the coordinates
5. Reflections: graph the image
6. Reflections: find the coordinates
7. Rotations: graph the image
8. Rotations: find the coordinates
9. Sequences of transformations: graph the image



CURRICULUM YEAR 7 MATHS

Three-dimensional figures

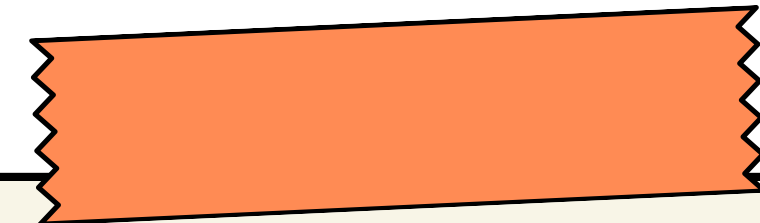
1. Bases of three-dimensional figures
2. Nets of three-dimensional figures
3. Front, side and top view



Curriculum Year 7 MATHS

Geometric measurement

1. Perimeter
2. Multiply to find the area of a rectangle made of unit squares
3. Area of rectangles and squares
4. Understanding the area of a parallelogram
5. Area of parallelograms
6. Understanding area of a triangle
7. Area of triangles
8. Area between two shapes
9. Area and perimeter: word problems



CURRICULUM YEAR 7 MATHS

Geometric measurement

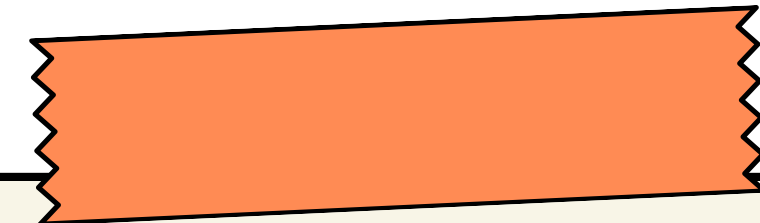
1. Surface area of cubes and rectangular prisms
2. Surface area of triangular prisms
3. Surface area of pyramids
4. Volume of cubes and rectangular prisms
5. Volume of cubes and rectangular prisms: word problems
6. Volume of triangular prisms



Curriculum Year 7 MATHS

Data and graphs

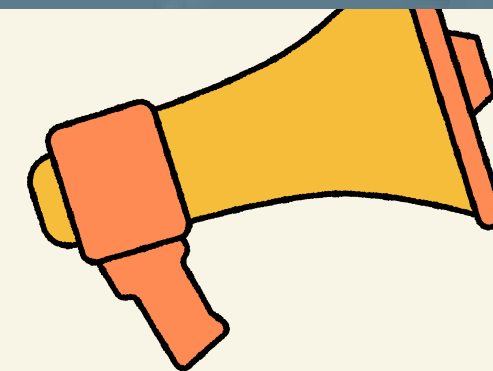
1. Interpret tables & Interpret dot plots
2. Create dot plots
3. Interpret stem-and-leaf plots
4. Create stem-and-leaf plots
5. Interpret bar graphs
6. Create bar graphs & Create frequency charts
7. Interpret circle graphs
8. Circle graphs and central angles
9. Interpret line graphs
10. Create line graphs
11. Choose the best type of graph



CURRICULUM YEAR 7 MATHS

Statistics

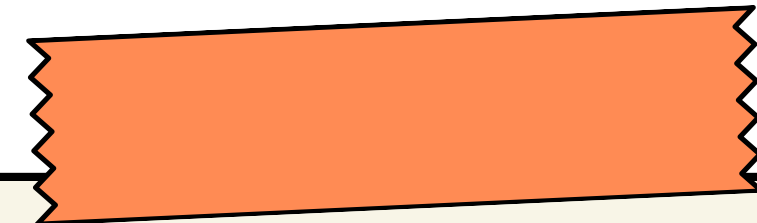
1. Calculate mean, median, mode and range
2. Interpret charts to find mean, median, mode and range
3. Mean, median, mode and range: find the missing number
4. Changes in mean, median, mode and range
5. Identify an outlier
6. Identify an outlier and describe the effect of removing it
7. Measures of centre and spread
8. Identify representative, random and biased samples



Curriculum Year 7 MATHS

Probability

1. More, less and equally likely.
2. Probability of simple events
3. Probability of opposite, mutually exclusive and overlapping events
4. Experimental probability.
5. Make predictions
6. Identify independent and dependent events



CURRICULUM YEAR 7 MATHS

Two-variable equations

1. Does (x, y) satisfy the equation?
2. Solve word problems involving two-variable equations
3. Complete a table for a two-variable relationship
4. Write a two-variable equation
5. Identify the graph of an equation
6. Interpret a graph: word problems
7. Identify graphs: word problems
8. Rate of change
9. Constant rate of change



Call to Action

A call to action is a final persuasive prompt to encourage your audience to purchase your product.

This may also provide information as to how or where the audience can purchase and commonly includes a sense of urgency.



So get a rental wardrobe today! Our shoppers will expertly select each piece to suit your personal style and needs. Never repeat clothes again! What are you waiting for?

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