

Mathematics Vocabulary Grades 9–12

A

Abscissa
Absolute maximum
Absolute minimum
Absolute value
Absolute value equation
Absolute value function
Accuracy
Acre
Acute triangle
Add
Addend
Addition
Additive identity
Additive inverse
Addition property of inequality
Addition property of zero
Adjacent angle(s)
Adjacent side(s)
Algebra
Algebraic equation
Algebraic expression
Algebraic function
Algebraic solution
Alternate interior angle(s)
Altitude
Analysis
Analytic
Analytic geometry
Analyze
Angle bisector
Angle measure
Angle of depression
Angle of a circular segment
Angle of elevation
Angle of intersection
Angle of rotation
Angular
Apothem
Application
Appraisal
Approximate
Approximate rational value

Mathematics Vocabulary Grades 9–12

Approximate square root
Approximation
Arbitrary
Arc
Arc length
Arc subtended by a chord
Area
Area of a rectangle/circle
Argument
Arithmetic
Arithmetic mean
Array
Ascending order
Assign
Associative property of addition/multiplication Asymmetric relation
Asymmetrical
Asymptote
Augment
Average
Average error
Axes
Axiom
Axis
Axis of abscissas
Axis of a conic
Axis of a cylinder
Axis of ordinates
Axis of a quadric
Axis of rotation
Axis of symmetry

B

Bar graph
Barycenter
Base
Base angle Base numeral
Base of cylinder
Upper base
Lower base
Base of figure
Base of a logarithm
Base of a power
Bell-shaped curve
Below
Below zero

Mathematics Vocabulary Grades 9–12

Bernoulli experiment
Best approximation
Between
Biased estimator
Biased statistic
Biconditional binary operation
Biconditional statement
Billions (place value)
Binary arithmetic
Binary digit
Binary form
Binary number
Binary operation
Binomial
Binomial curve
Binomial expansion
Binomial expression
Bisect
Bisector of a segment
Bisector
Body of rotation
Border
Borrow
Bottom
Bound
Boundary
Box-and-whisker
Braces
Brackets

C

Concurrent
Concurrent angle bisectors of a triangle
Concurrent altitudes of a triangle
Concurrent lines
Concurrent planes
Concyclic
Concyclic points
Conditional
Conditional equality
Conditional equation
Conditional inequality
Conditional sentence
Cone

Mathematics Vocabulary Grades 9–12

Congruence

Congruent

- arcs
- angles
- circles
- figures
- line segments
- polygons
- sides
- triangles

Conjugacy

Conjugate axes

Conjugate complex numbers

Conjugate pairs

Conjugate imaginary lines

Conjugate roots

Conjugate tangents

Conjunction

Consecutive angles

Consecutive even integers

Consecutive integers

Consecutive intervals

Consecutive odd integers

Consecutive sides

Consecutive tangents

Consecutive vertices

Complex rational expression

Consistence

Consistence of equations

Consistency

Consistency of axioms

Consistent equations

Constant

Constant coefficient

Constant factor

Constant dilation

Constant term

Construct

Construction

Continued ratio

Contracted notation

Contradiction

Contradictory

Contradictory propositions

Contrapositive

Mathematics Vocabulary Grades 9–12

Contrapositive statement
Converse
Converse statement
Converse theorem converse of a statement
Conversion
Convert
Convert measures
Convex

- angle
- body
- polygon

Convexity
Coordinate
Coordinate axes
Coordinate curve
Coordinate transformation
Coordinate plane
Coordinate geometry
Coordinates
Coplanar
Coplanar lines
Coplanar points
Corollary
Corresponding
Corresponding angle(s)
Cosecant
Cosine
Cotangent
Coterminal angles
Count
Counterclockwise rotation
Counterexample
Counting principle
Counting number
Cross section
Cross product
Cube
Cube root
Cubic
Cubic number
Cubic inch
Cubic equation
Cubic centimeter
Cumulative
Cumulative frequency histogram

Mathematics Vocabulary Grades 9–12

Cumulative relative frequency
Cup
Curve
Curved line
Cyclic
Cyclic vertices of a quadrilateral
Cylinder
Cylindrical surface

D

Dashed line
Data
Data table
Decade
Decagon
Deci-
Decimal
Decimal number system
Decimal part
Decimal place
Decimal point
Deck of cards
Decrease
Decreasing function
Decreasing sequence
Deduce
Deduction
Deductive
Deductive proof
Degenerative curve
Degree
Degree of an angle
Degree of an equation
Denominator
Density
Dependent equations
Dependent events
Derivation
Derive
Descending order
Designated value
Detachment law
Diagonal
Diagram

Mathematics Vocabulary Grades 9–12

Diameter of a circle, sphere

Dice

Die

Difference

Difference of two squares

Digit

Digital

Dilation

Dimension

Direct measurement

Direct proof

Direct proportion

Direct variation

Direction

Directrix

Discriminant

Disjoint

Disjoint elements

Disjoint events

Disjoint sets

Disjunction

Disperse

Dispersion

Display

Distance

Distance formula

Distance from a fixed point

Distinct

Distinct arrangements

Distinct points

Distinct roots

Distribution

Distributive property

Divide

Dividend

Divisibility

Divisible

Division

Divisor

Domain

Domain of a function

Dotted line

Dot

Dot product

Double

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Double roots
Down payment
Dozen
Draw at random
Draw the figure

E

Edge
Element
Element in a set
Eliminate
Elimination
Ellipse
Empirical study
Empirical probability
Empty set
Encircle
Endpoint
Enumeration
Equal
Equal chance
Equality
Equally likely
Equally spaced points
Equation
Equiangular
Equidistance/equidistant
Equilateral
Equivalent
Equivalent equation(s)
Equivalent expression
Equivalent sets
Estimate
Euclidean geometry
Evaluate
Even
Evenly distributed
Event
Exact
Exercise
Existential qualifier
Expansion of a binomial
Experiment
Explain

Mathematics Vocabulary Grades 9–12

Exponent
Exponential
Exponential form
Exponential function
Exponential growth
Express
Expression
Extend
Exterior angle
Exterior region
External bisector
External point
Extract a root
Extraneous root(s)
Extreme and mean ratio

F

Face
Factor
Factor completely
Factor tree
Factorial
Factorization
Fahrenheit
Favorable outcomes
Feet
Fibonacci sequence
Field
Figure
Find
Finish
Finite
First quartile
First-degree equation
First-quadrant
Fixed line
Fixed point
Fixed value
Focus
Focus of a parabola
Focus point
Formal proof
Formed by a transversal
Formula

Mathematics Vocabulary Grades 9–12

Fourth-quadrant
Fraction
Frequency
Frequency diagram
Frequency distribution
Function
Function notation
Fundamental theorem

G

Gallon
Generalization
Geometric
Geometry
Gram
Graph
Graphic calculator
Graphic solution
Greater than
Greatest common factor
Greatest common monomial factor
Grid
Group

H

Half
Half-plane
Half-turn about the origin
Heading
Hectare
Height
Heptagon
Hexagon
Hexahedron
Histogram
Horizontal
Hour
Hundred
Hundredth
Hyperbola
Hypotenuse
Hypothesis

Mathematics Vocabulary Grades 9–12

I

Identity property

If and only if

Illustrate

Image

Image point

Image set

Imaginary number

Imaginary root

Impossible event

Improper fraction

Inch

Included angle

Included side

Inconsistent equation

Increase

Increasing function

Increasing sequence

Increasing series

Increment

Independent event

Independent variable

Index

Index of a radical

Indirect measurement

Indirect proof

Indivisible

Induction

Inductive reasoning

Inequality

Infinite

Infinitely many

Infinity

Initial

Input

Inscribe

Insert

Integer

Integral

Integrated mathematics

Intermediate value

Intercept

Interest

Interior angle

Interpolate

Mathematics Vocabulary Grades 9–12

Intersect
Intersection of loci
Interval
Intransitive
Invariance
Inverse
Inverse equation
Inverse operation
Inverse variation
Irrational number
Irrational root
Irreducible
Isogonal
Isogonal line
Isogonal mapping
Isogonal transformation
Isometric
Isosceles trapezoid
Isosceles triangle
Item

J

Justify

K

Kilo-
Known quantity

L

Label
Lateral
Leading coefficient
Least common factor
Least common multiple
Leg
Length
Less than
Line
Line graph
Line of reflection
Line of symmetry
Line segment
Linear coordinates
Linear equation

Mathematics Vocabulary Grades 9–12

Linear function
Linear growth
Linear inequality
Linear pair
Liter
Locus/loci
Logarithm
Logic
Long division
Longitudinal axis
Loss
Lower base of cylinder
Lowest common denominator
Lowest common multiple

M

Magnitude
Major arc
Map
Map onto
Map into
Maximum
Mean
Measure
Measures of central tendency
Median
Meter
Metric
Midpoint
Mile
Milli-
Minimal
Minimum
Minor
Minuend
Minus
Minute
Mixed number
Modal
Mode
Model
Modular
Monomial
Multiple
Multiplicand

Mathematics Vocabulary Grades 9–12

Multiplication
Multiplicity
Multiplier
Mutually exclusive

N

Natural number
Nearest
Negation
Negative
Negative correlation
Negative reciprocal
Nonagon
Normal curve
Normal distribution
Notation
Null
Number
Number line
Numeral
Numerator

O

Oblique
Obtuse
Octagon
Octahedron
Odd
One-to-one correspondence
One-to-one function
One-to-one mapping
Open expression
Open interval
Open sentence
Open set
Operation
Operator
Opposite
Order
Ordered pair
Ordinate
Origin
Orthocenter
Ounce

Mathematics Vocabulary Grades 9–12

Outcome

Output

P

Pace

Pair

Palindrome

Parabola

Parallel

Parallelogram

Partial products

Partition

Pascal's triangle

Pattern

Pentadecagon

Pentagon

Per

Percent

Percent increase

Percent decrease

Percentage error

Percentile

Perfect square

Perimeter

Period

Periodic function

Permutation

Perpendicular

Perpendicular bisector

Perspective

Pi

Pictograph

Picture graph

Pint

Pivoting

Place holder

Place value

Plane

Plane geometric figures

Plot

Plus

Point

Point of tangency

Point-slope-form of line

Polygon

Mathematics Vocabulary Grades 9–12

Polyhedron
Polynomial
Positive
Positive correlation
Possibility
Postulate
Pound
Power
Preceding
Prime
Principle
Prism
Probability
Profit
Proof
Proper fraction
Proper set
Proper subset
Property
Proportion
Protractor
Prove
Pyramid
Pythagorean Theorem
Pythagorean triple

Q

Quadrangle
Quadrant
Quadratic
Quadratic equation
Quadrilateral
Quantifier
Quantity
Quart
Quarter-turn
Quotient

R

Radian
Radical
Radicand
Radius (Radii)
Random

Mathematics Vocabulary Grades 9–12

Range
Rate
Rational
Rationalization
Rationalize the denominator
Raw data
Ray
Real number
Reciprocal
Rectangle
Rectangular coordinate system
Rectangular prism
Rectilinear
Reduce
Reference angle
Reflected image
Reflection
Reflex angle
Reflexive property
Region
Regular polygon (figure)
Reject
Relation
Relationship
Relativity
Remainder
Remote interior angles
Repeating decimal
Repetend
Replacement
Restricted domain
Reverse
Rhombhedreom
Rhomboid
Rhombus
Right angle
Roman number
Root
Rotation
Rotational symmetry
Round
Row
Ruler

Mathematics Vocabulary Grades 9–12

S

Sample
Scalar multiplication
Scale
Scale drawing
Scale of a graph
Scalene triangle
Scatter plot
Scattergram
Scientific notation
Secant
Second
Second quadrant
Sector
Segment
Semicircle
Sentence
Sequence
Series
Set
Set-builder notation
Shape
Side
Sigma notation
Sign
Signed numbers
Significant digits
Similar figures (similarity)
Simplify
Sine
Sketch
Skew lines
Slant
Slant height
Slope
Slope-intercept form
Solid
Solution set
Solve
Space
Sphere
Square
Square pyramid
Square root
Standard deviation

Mathematics Vocabulary Grades 9–12

Standard form
Standardize
Statistics
Step function
Straight angle
Subscript
Subset
Substitution
Subtend
Subtend an angle
Subtraction
Subtrahend
Sum
Summation of series
Superscript
Supplement
Supplementary
Surface
Surface area
Syllogism
Symbol
Symmetry
System

T

Table
Tally
Tangent
Term
Tetrahedron
Theorem
Theoretical probability
Third-quadrant
Third quartile
Ton
Transcendental
Transformation
Transitive
Translation
Transversal
Trapezoid
Trend line
Trial
Triangle
Triangular number

Mathematics Vocabulary Grades 9–12

Triangular prism
Triangular pyramid
Trigonometry
Trihedral
Trinomial
Triple
Trisection
Truncate
Truth table

U

Unary
Undefined
Union
Unique
Unit
Universal
Unknown
Unlike terms
Upper quartile

V

Valid (validity)
Value
Variable
Variance
Variation
Venn diagram
Verbal
Verify
Vertex (vertices)
Vertical
Volume

W

Whole number
Width
With replacement
Without replacement

X

x-axis
x-coordinate
x-intercept of a line

Mathematics Vocabulary Grades 9–12

Y

y-axis
y-coordinate
y-intercept of a line
Yard

Z

Zero
Zero exponent
Zero slope