

Suggested List of Mathematical Language

Grade 6

Problem Solving

analyze
 apply
 collaboration
 counterexample
 differentiate
 discuss
 draw a graph
 draw a picture
 explain
 formulate
 identity
 interpret
 invalid approach
 irrelevant information
 language of logic (and, or, not)
 logic
 logical reasoning
 model using manipulatives
 monitor
 observe patterns
 organized chart
 organized list
 process of elimination
 reasonableness of a solution
 reflect
 relevant information
 solution
 solve a simpler problem
 strategies
 trial and error
 valid approach
 verify results
 work backwards
 write an equation

Reasoning and Proof

algebraically
 appropriate mathematical terms
 argument
 conjecture (noun)
 counterexample
 develop formulas
 explain
 graphically
 interpret
 investigate
 justify
 manipulative(s)
 mathematical relationships
 methods of proof
 models
 numerically
 special case(s)
 verbally
 verify claims of others

Communication

accurately label work
 analyze
 clarifying questions
 comprehend
 consolidate
 decode
 distinguish
 explain
 extend
 mathematical relationships
 organize work
 rationale

solution
verbal symbols
written symbols

Connections

apply
coherent
conjecture (verb)
connections
draw conclusions
explore
investigate
irrelevant information
mathematical relationships
model (noun)
model problems
relevant information

Representation

apply
describe
explain
explore
extend
interpret
investigate
mathematical phenomena
model(s)
nonstandard representations
physical phenomena
social phenomena
standard representations

Number Sense and Operations

absolute value
additive inverse
associative property of addition
associative property of multiplication
base (of percent)
base ten number system
commutative property of addition
commutative property of multiplication
counting (natural) numbers
distributive property
equivalent fractions
equivalent numerical expressions

equivalent ratios
estimate
exponent
exponential form
extremes (of a proportion)
fraction
identity element
identity property of addition
identity property of multiplication
inequality
integer
inverse element
inverse operation
like (common) denominators
lowest terms
mathematical statement
means (of a proportion)
mixed number
multiplicative inverse (reciprocal)
multiply (multiplication)
negative
number line
number system
numerical problem
numeric (arithmetic) expression
operation
order (verb)
order of operations
percent
positive
power
properties of real numbers
proportion
rate
rate of interest
ratio
rational number
repeating decimal
round (verb)
terminating decimal
unlike denominators
verbal expression
whole number
zero property of multiplication

Algebra

algebra
algebraic expression
algebraic solution
equation
evaluate
exponents
formula
input values
interest
inverse operations
proportion
rule
solve
substitute
translate
variable
verbal expression

Geometry

arc
area
central angle
chord
circle
circumference
coordinate geometry
coordinate plane
corresponding sides
develop formulas
diameter
geometric shape
geometry
height
irregular polygon
length
perimeter
pi (π)
plot
point
proportional reasoning
quadrant
quadrilateral
radius
rectangle
rectangular prism

regular polygon
rhombus
sector
similar triangles
square
trapezoid
triangle
vertex
volume
width

Measurement

calculate volume
cup
customary units of capacity
distance
equivalent customary units of capacity
estimate
 area
 circumference
 volume
gallon
liter
measure capacity
metric system
metric units of capacity
milliliter
personal references for capacity
pint
quart

Statistics and Probability

circle graph
compound events
data
dependent events
favorable outcomes
frequency
frequency table
fundamental counting principle
histogram
impossible outcomes
interpret graphs
justify
line graph
mean

median
mode
population
possible outcomes
predict
probability
range
record data
sampling
statistics
Venn diagram