

# Glossary

---

## Intermediate School Level

# Mathematics Glossary

---

## English | Malay

Translation of Mathematics Terms Based on the Coursework for  
Mathematics Grades 6 to 8.

---



This glossary is to PROVIDE PERMITTED TESTING ACCOMMODATIONS of ELL/MLL students. It should also be used for INSTRUCTION during the school year. The glossary may be downloaded, printed and disseminated to educators, parents and ELLs/MLLs.

[Please click here for the New York State Office of Bilingual Education and World Languages Webpage on "Assessment and Testing Accommodations"](#)

---



THE STATE EDUCATION DEPARTMENT / THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

Last Updated: October 2018



THE STATE EDUCATION DEPARTMENT / THE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

**P-16**

Office of Elementary, Middle, Secondary and Continuing Education and Office of Higher Education  
Office of Bilingual Education and World Languages

<http://www.emsc.nysed.gov/biling/>

**THE UNIVERSITY OF THE STATE OF NEW YORK**

**Regents of The University**

BETTY A. ROSA, <i>Chancellor</i> , B.A., M.S. in Ed., M.S. in Ed., M.Ed., Ed.D. ....	Bronx
T. ANDREW BROWN, <i>Vice Chancellor</i> , B.A., J.D. ....	Rochester
ROGER TILLES, B.A., J.D. ....	Great Neck
LESTER W. YOUNG, JR., B.S., M.S., Ed.D. ....	Beechhurst
CHRISTINE D. CEA, B.A., M.A., Ph.D. ....	Staten Island
WADE S. NORWOOD, B.A. ....	Rochester
KATHLEEN M. CASHIN, B.S., M.S., Ed.D. ....	Brooklyn
JAMES E. COTTRELL, B.S., M.D. ....	New York
JOSEPHINE VICTORIA FINN, B.A., J.D. ....	Monticello
JUDITH CHIN, M.S. in Ed. ....	Little Neck
BEVERLY L. OUDERKIRK, B.S. in Ed., M.S. in Ed. ....	Morristown
CATHERINE COLLINS, R.N., N.P., B.S., M.S. in Ed., Ed.D. ....	Buffalo
JUDITH JOHNSON, B.A., M.A., C.A.S. ....	New Hempstead
NAN EILEEN MEAD, B.A. ....	Manhattan
ELIZABETH S. HAKANSON, A.S., M.S., C.A.S. ....	Syracuse
LUIS O. REYES, B.A., M.A., Ph.D. ....	New York
SUSAN W. MITTLER, B.S., M.S. ....	Ithaca

**Commissioner of Education and President of The University**

MARYELLEN ELIA

**Executive Deputy Commissioner**

ELIZABETH R. BERLIN

The State Education Department does not discriminate on the basis of age, color, religion, creed, disability, marital status, veteran status, national origin, race, gender, genetic predisposition or carrier status, or sexual orientation in its educational programs, services and activities. Portions of this publication can be made available in a variety of formats, including braille, large print or audio tape, upon request. Inquiries concerning this policy of nondiscrimination should be directed to the Department's Office for Diversity and Access, Room 530, Education Building, Albany, NY 12234.

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
absolute value	nilai mutlak
accurately label work	label kerja secara tepat
adapt	menyesuaikan
additive inverse	songsangan terhadap penambahan
adjacent	sebelah
adjacent side of a triangle	sisi sebelah segi tiga
algebra	algebra
algebraic equation	persamaan algebra
algebraic expression	ungkapan algebra
algebraic inequalities	ketaksamaan algebra
algebraic pattern	pola algebra
algebraic solution	penyelesaian algebra
algebraically	secara algebra
alternate exterior angle	sudut berselang luar
alternate interior angles	sudut berselang dalam
altitude	altitud
analyze	menganalisis
angle bisector	pembahagi dua sama sudut
angle pairs	pasangan sudut
apply	guna
apply a variety of strategies	gunakan pelbagai strategi
appropriate mathematical terms	istilah matematik yang sesuai
approximation	penghampiran
arc	lengkuk
area	keluasan
area of a circle	keluasan bulatan
argument	hujah
arithmetically	secara aritmetik
associative property of addition	sifat bersekutu penambahan
associative property of multiplication	sifat bersekutu pendaraban
base (of percent)	asas (dalam peratus)
base of a 2-dimensional shape	asas kepada bentuk 2 dimensi
base of a 3-dimensional shape	asas kepada bentuk 3 dimensi
base ten number system	sistem 10 nombor asas
binomial	binomial
bisector	pembahagi dua sama
calculate	kira
calculate distance	kira jarak
calculate unit price	kira harga unit
calculate volume	kira isipadu
Celsius	Celsius
central angle	sudut tengah
chord	perentas
circle	bulatan
circle graph	graf bulatan

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
circumference	lilitan
clarifying questions	menjelaskan soalan
coefficient	pekali
coherent	koheren
collaboration	kolaborasi
combine like terms	gabungkan istilah yang sama
commission	komisyen
commutative property of addition	sifat kalis tukar tertib penambahan
commutative property of multiplication	sifat kalis tukar tertib pendaraban
compare strategies	bandingkan strategi
compare unit price	bandingkan harga unit
Compass	Kompas
complementary angles	sudut pelengkap
compound events	peristiwa majmuk
comprehend	memahami
conclusion	kesimpulan
conduct	melakukan
congruent	kongruen
conjecture (noun)	Konjektur (kata nama)
conjecture (verb)	konjektur (kata kerja)
connections	hubungan
consecutive integers	integer berturutan
consolidate	gabungkan
constraints	kekangan
construction	pembinaan
convert money	tukar wang
convert capacity within a given	tukar kapasiti dalam sistem yang diberikan
convert mass within a given system	tukar jisim dalam sistem yang diberikan
convert volume within a given system	tukar jumlah dalam sistem yang diberikan
convert within a given system	tukar dalam sistem yang diberikan
coordinate geometry	geometri koordinat
corresponding angles	sudut sepadan
corresponding sides	sisi sepadan
counterexample	contoh penyangkal
counting (natural) numbers	mengira nombor (asli)
counting numbers	mengira nombor
cup	cawan
customary units of capacity	unit kapasiti lazim
customary units of mass	unit jisim lazim
data	data
decode	menyahkod
defend	bela
degree of a polynomial	darjah polinomial
density	ketumpatan
dependent events	peristiwa bersandar

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
describe	jelaskan
develop formulas	bina formula
diameter	diameter
differentiate	membezakan
dilate	mengembungkan
dilation	pengembangan
dimensions	dimensi
discuss	bincang
distance	jarak
distinguish	bezakan
distributive property	sifat kalis agihan
domain	domain
double bar graph	graf bar kembar
double line graphs	graf garis kembar
draw a graph	lukiskan graf
draw a picture	lukiskan gambar
draw conclusions	lukiskan kesimpulan
equation	persamaan
equation of a line	persamaan garis
equidistant	sama jarak
equivalent customary units of	unit jarak lazim setara
equivalent fractions	pecahan setara
equivalent numerical expressions	ungkapan berangka setara
equivalent ratios	nisbah setara
estimate	menganggar
evaluate	menilai
evaluate conjectures	penilaian konjektur
evaluate efficiency	penilaian kecekapan
exchange rate table	jadual kadar tukaran
expenses	perbelanjaan
explain	terangkan
explore	terokai
exponent	eksponan
exponential form	bentuk eksponen
extend	panjangkan
exterior angle	sudut luaran
extremes (of a proportion)	ekstrim (dalam perkadaran)
faces and bases of cones	asas dan permukaan daripada kon
of cylinders	daripada silinder
of prisms	daripada prisma
of pyramids	daripada piramid
factor	faktor
Fahrenheit	Fahrenheit
favorable outcome	hasil yang dikehendaki

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
fixed distance	jarak tetap
formally	secara formal
formula	formula
formulate	merumuskan
formulate mathematically	merumus secara matematik
fraction	pecahan
frequency	kekerapan
frequency table	jadual kekerapan
function	fungsi
function notation	fungsi tatatanda
function rule	fungsi peraturan
fundamental counting principle	prinsip asas pengiraan
gallon	gelen
generalizations	generalisasi
geometric shape	bentuk geometri
geometry	geometri
Graphically	Secara bergambar
gratuity	ganjaran
greatest common factor	faktor umum terbesar
height	ketinggian
histogram	histogram
hypotenuse	hipotenus
ideas	idea
identity	identiti
identity element	elemen identiti
identity property of addition	sifat identiti penambahan
identity property of multiplication	sifat identiti perkadaran
image	imej
impossible outcomes	hasil yang mustahil
income	pendapatan
Indirect	Secara tidak langsung
inductive reasoning	penaakulan induktif
inequality	ketaksamaan
informally	secara tidak formal
input values	nilai dapatan
integer	integer
integer coefficients	pekali integer
integral	integer
integral exponents	eksponen integer
interconnect	sambungkan
interest	faedah
interest rates	kadar faedah
interior angles	sudut dalaman
interpret	tafsir
interpret graphs	tafsir graf

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
invalid approach	pendekatan tidak sah
inverse element	elemen songsang
inverse operation	operasi songsang
investigate	menyiasat
investigate conjectures	menyiasat konjektur
irrational numbers	nombor bukan nisbah
irregular polygon	poligon tidak sekata
irrelevant information	maklumat tidak relevan
justify	mewajarkan
language of logic (and, or, not)	bahasa logik (dan, atau, tidak)
law of exponents for division	hukum pembahagian esponen
law of exponents for multiplication	hukum perkadaran esponen
law of exponents	hukum esponen
legs of a right triangle	kaki segi tiga bersudut tepat
length	panjang
levels of precision	tahap kepersisan
like (common) denominators	penyebut (umum) yang sama
like terms	istilah yang sama
line	garis
line graph	garis graf
line symmetry	garis simetri
linear equation	persamaan linear
linear inequalities	ketidaksamaan linear
linear relationship	hubungan linear
liter	liter
logic	logik
logical argument	hujah logik
logical reasoning	penalaran logik
lowest terms	istilah paling rendah
magnitude	magnitud
make conjectures	membuat ramalan
manipulative (s)	manipulatif
map scale	skala peta
mathematical argument	hujah matematik
mathematical ideas	idea matematik
mathematical language	bahasa matematik
mathematical phenomena	fenomena matematik
mathematical relationships	hubungan matematik
mathematical statement	penyataan matematik
mean	purata
mean (of a proportion)	purata (daripada perkadaran)
measure capacity	mengukur kapasiti
measures of central tendency	ukuran kecenderungan berpusat
median	median
methods of proof	kaedah pembuktian

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
metric system	sistem metrik
metric units of capacity	unit kapasiti metrik
metric units of mass	unit jisim metrik
milliliter	mililiter
misleading	mengelirukan
mixed numbers	nombor bercampur
mode	mod
model (noun)	model (kata nama)
model problems	masalah model
model situations	situasi model
model using manipulatives	model menggunakan manipulatif
model (s)	model
models	model
monitor	monitor
monomial	monomial
multiple	berganda
multiple representations	perwakilan gandaan
multiplicative inverse (reciprocal)	songsangan terhadap pendaraban (timbang balik)
multiply (multiplication)	darab (pendaraban)
natural numbers	nombor asli
negative	negatif
nonadjacent side of a triangle	sisi segi tiga yang tidak bersebelahan
nonlinear equation	persamaan bukan linear
nonlinear relationship	hubungan bukan linear
non-perfect squares	segi empat tidak tepat
non-repeating decimal	perpuluhan tidak berulang
nonstandard representations	perwakilan bukan piawaian
non-terminating decimal	perpuluhan tidak berakhir
not preserved	tidak terpelihara
number line	garis nombor
number system	sistem nombor
numeric (arithmetic) expression	ungkapan berangka (aritmetik)
numerical problem	masalah berangka
numerically	secara berangka
observe patterns	memerhatikan pola
operation	operasi
operations with polynomials	operasi dengan polinomial
order (verb)	perintah (kata kerja)
order of operations	aturan operasi
ordered pair	pasangan tertib
organize work	mengatur kerja
organized chart	carta teratur
organized list	senarai teratur
parallel lines	garisan selari
Percent	Peratus



## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
percent decrease	peratus menurun
percent increase	peratus meningkat
percent of quantity	peratus kuantiti
perfect square	kuasa dua sempurna
perimeter	perimeter
perpendicular bisector	pembahagi dua sama seranjang
personal references for capacity	rujukan peribadi untuk kapasiti
personal references for units of	rujukan peribadi untuk unit
physical phenomena	fenomena fizikal
Pi( $\pi$ )	Pi ( $\pi$ )
pint	pint
plot	plot
point	titik
polygon	poligon
polynomial	polinomial
population	populasi
positive	positif
possible outcomes	kemungkinan hasil
power	kuasa
predict	jangkaan
pre-image	praimej
preserved	dipelihara
prime factorization	pengfaktoran perdana
probability	kebarangkalian
procedures	tatacara
process of elimination	proses penyingkiran
profit	keuntungan
properties of real numbers	sifat nombor nyata
proportion	kadaran
proportional reasoning	penaakulan kadaran
proportionality	perkadaran
protractor	jangka sudut
Pythagorean theorem	teorem Phythagoras
quadrant	sukuan
quadratic equation	persamaan kuadratik
quadratics	kuadratik
quadrilateral	sisi empat
quart	suku
radius	jejari
range	julat
rate	kadar
rate	kadar
rate of change	kadar perubahan
rate of interest	kadar faedah
ratio	nisbah

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
rational numbers	nombor rasional
rationale	rasional
real numbers	nombor nyata
reasonableness of a solution	penyelesaian munasabah
recognize connections	mengenalpasti sambungan
record data	rekod data
rectangle	segi empat tepat
rectangular prism	prisma segi empat tepat
reflect	pantul
reflection	pantulan
refute	menyangkal
regular polygon	poligon biasa
relation	hubungan
relative error	ralat relatif
relevant information	i maklumat yang berkaitan
repeating decimal	perpuluhan berulang
results	keputusan
rhombus	rombus
right angle	sudut tepat
rotate	putar
rotation	putaran
rotational symmetry	simetri putaran
round (verb)	bundarkan (kata kerja)
rule	peraturan
Sale price	Harga jualan
Sales	Jualan
sampling	persampelan
scientific notation	tatatanda saintifik
sector	sektor
segment bisector	pembahagi dua sama segmen
similar triangles	segi tiga serupa
simple interest	faedah biasa
simplify	permudahkan
simplify expressions	permudahkan ungkapan
slope	lereng
slope-intercept form	bentuk pintasan lereng
social contexts	konteks sosial
social phenomena	fenomena sosial
solution	penyelesaian
solution set	set penyelesaian
solution set of an equation	set penyelesaian persamaan
solution set of an inequality	set penyelesaian ketidaksamaan
solutions	penyelesaian
solve	selesaikan
solve a simpler problem	selesaikan masalah yang lebih ringkas

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
spatial reasoning	penaakulan ruang
special case (s)	kes istimewa
square	kuasa dua
square root	punca kuasa dua
standard form of a number	bentuk piawai nombor
standard representations	perwakilan piawai
statistics	statistik
straight edge	alat tepi-lurus
strategies	strategi
strategy selection	pemilihan strategi
subset	subset
substitute	pengganti
supplementary angles	sudut tambahan
supportive argument	hujah menyokong
surface area of prisms	keluasan permukaan prisma
surface area of cylinders	keluasan permukaan silinder
symbols in verbal form	simbol dalam bentuk lisan
symbols in written form	simbol dalam bentuk penulisan
symmetry	simetri
system of equations	sistem persamaan
system of inequalities	sistem ketidaksamaan
table of values	jadual nilai
tax	cukai
technical writing	penulisan teknikal
term	istilah
terminating decimal	perpuluhan berakhir
transformation	perubahan
transformational geometry	geometri berubah
translate	terjemah
translation	penterjemahan
transversal	rentasan lintang
Trapezoid	Trapezoid
Trial and error	Percubaan dan kesilapan
triangle	segi tiga
trinomial	trinomial
unlike denominators	tidak seperti penyebu
valid approach	pendekatan yang sah
validity of sample methods	kesahihan kaedah sampel
variable	pembolehubah
Venn diagram	gambar rajah Venn
verbal expression	ungkapan lisan
verbal form	bentuk lisan
verbal sentence	ayat lisan
verbal symbols	simbol lisan
verbally	secara lisan

## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>MALAY</b>
verify claims of others	sahkan tuntutan lain
verify results	sahkan keputusan
vertex	bucu
vertical	tegak
vertical angles	sudut tegak
vertical line test	ujian garis tegak
vertical lines	garis tegak
visualization	visualisasi
volume	isi padu
volume of a cylinder	isi padu silinder
volume of a prism	isi padu prisma
whole number	nombor bulat
width	lebar
work backwards	bekerja secara mengundur
write an equation	tulis persamaan
Y-intercept	pintasan-Y
zero property of multiplication	sifat sifar pendaraban