

# Glossary

Intermediate School Level

## Mathematics Glossary

English / Twi



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

Word-for-word glossaries are used for  
testing accommodations for ELL/LEP  
students.



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## Mathematics Glossary – Intermediate School Level

<b>ENGLISH</b>	<b>TWI</b>
absolute value	nɔma a nkyekyem nka ho( nɔma a edi mu)
accurately label work	wato din pεrεερε
adapt	fεm (nsakrae)
additive inverse	nɔma a wode ka foforo ho a, wunya hwee/sεro
adjacent	ediso (nkyεn)
adjacent side of a triangle	traiangil fa bi nkyεn
algebra	nkonta a wɔde agyiraehyεde di dwuma
algebraic equation	nkonta fa a wɔde agyiraehyεde aye afanu pεrεερε
algebraic expression	nkonta fa a wɔmmfa nɔma nni dwuma
algebraic inequalities	nkonta fa a wɔde agyiraehyεde ye afanu a εnyε pε
algebraic pattern	nkonta fa a agyiraehyεde wom wɔ kwan bi so
algebraic solution	nkonta fa a agyiraehyεde wɔmu no anoyie
algebraically	kwan a wɔmmfa nɔma ankasa nni dwuma
alternate exterior angle	angil a edi nsesa wɔ abɔnten/adiwo
alternate interior angles	angil a edi nsesa wɔ mu
altitude	ne tenten(ne korɔn)
analyze	hwehwε mu/pεnsεnρεnsεn mu/feefee mu
angle bisector	deε εkyε angil mu pεrεε
angle pairs	angil no afanu
apply	fa di dwuma
apply a variety of strategies	fa nhεyεhεes ahorow di dwuma
appropriate mathematical terms	nkontabude a εfata
approximation	dodow a εbεyε se
arc	kanko ntwhaho fa bi
area	beae
area of a circle	kanko bi mu kεse
argument	anodisεm (ntεase/adwenkyere)
arithmetically	εnam nɔma adaneadane so (akontaabu so)
associative property of addition	nkabom fa a wosesa nɔma akwan miεnsa so a wonya mmuaεε kρo no ara
associative property of multiplication	mmɔho fa a wosesa nɔma akwan mieεnsa so a, wonya muaεε kρo no ara
base (of percent)	aseε ( ɔha nkyemu ho)
base of a 2-dimensional shape	nfonin a εwɔ afa 2 ase
base of a 3-dimensional shape	nfonin a εwɔ afa 3 ase
base ten number system	nɔma nhεyεhεes ase du (nɔma a ennu du ho nhεyεhεe)
binomial	nkonta fa a wɔka afanu mienu bom a anaa wɔte frimu
bisector	εkyε adeε mu mienu pεrεερε
calculate	sese (bu/kyere)
calculate distance	sese kwan no tenten (bu/kyere kwan no tenten)
calculate unit price	sese (bu/kyere) ankorankore boɔ
calculate volume	sese (bu/kyere) emu kεseε
Celsius	Selsiɔs
central angle	angil a εhyε mfinmfin
chord	nsaneε a εka mmeae abien wɔ mfonin bi mu

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<b>ENGLISH</b>	<b>TWI</b>
circle	kanko (kurukuruwa/kɔntɔnkrɔn)
circle graph	kanko ho nfonin
circumference	kanko ho tenten
clarifying questions	nsemmissa a εma nkyerεmu
coefficient	nɔma a yede ye mmɔho
coherent	esisiso (εtoatoam)
collaboration	nkabom (koroyε/biakoyε)
combine like terms	keka neεma a εyε ne seso bom
commission	mfasɔn
commutative property of addition	nkabom fa a wosesa nɔma akwan mmienu so a wonya muaeε kɔ no ara
commutative property of multiplication	mmɔho fa a wosesa nɔma akwan mmienu so a wonya muaeε kɔ no ara
compare strategies	fa nhyehyε ahorow toto ho
compare unit price	fa ankorankore boɔ toto ho
Compass	Afidie a εkyerε faako a wogyna (afiri a εkyerε kwan)
complementary angles	angil mmienu a εka bom ye 90
compound events	dwumadie a muaeε ahodɔɔ pii tumi fri mu ba
comprehend	te aseε
conclusion	n'awieε/awieι
conduct	ye (hwε so/suban)
congruent	tumi da so pεrεεpε (εsε/εyε pε)
conjecture (noun)	agyinasie a ne nyinsɔɔ sua (nea wɔde adwene abu)
conjecture (verb)	sε woresi gyinaeε a ne nyinasɔɔ sua (fa w'ani/w'adwene bu biribi)
connections	nkitahodi ahorow
consecutive integers	nɔma a εtoatoaso
consolidate	ka bom na εnyε mu
constraints	akwanside ahorow
construction	adesie (adansi/biribi a wɔyε)
convert money	sesa sika
convert capacity within a given	sesa tumi a εwɔ adeε mu
convert mass within a given system	sesa mass a εwɔ nhyehyεε bi mu
convert volume within a given system	sesa nhyehyεε bi mu kεsε
convert within a given system	sesa wɔ nhyehyεε bi mu
coordinate geometry	geomεtri akontaabu a wɔde ahyεnsode di dwuma
corresponding angles	angil ahorow a edi nse
corresponding sides	afa a εwɔ baabi kɔ
counterexample	mfatohoh a etwa foforo mu
counting (natural) numbers	nɔma ankasa a yεkenkan
counting numbers	nɔma a yεkenkan
cup	kuruwa
customary units of capacity	agyiraehyεdee a yede sese tumi
customary units of mass	agyiraehyεdee a yede sese ade mu duru
data	nsem

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<b>ENGLISH</b>	<b>TWI</b>
decode	kyerε ase
defend	bɔban (bɔ ho ban)
degree of a polynomial	pɔlinomial no mpremprensos
density	emu duro
dependent events	dwumadie a enya nsunsuanso
describe	kyeremu (kyerε senea ete)
develop formulas	yeyε kwan a wɔde di ho dwuma ahodo
diameter	nsaneε a εkyε kanko mu mienu pεreεre
differentiate	kyerε nsonsonoe
dilate	huhuru (bue mu/trεw mu/kyerε mu)
dilation	εhuhuru (ntrew mu/nkyerεkyerε mu)
dimensions	n'akaseε/afa ahorow tenten
discuss	di ho nkɔmmɔ
distance	kwan no tenten
distinguish	kyerε nea εda nso (kyerε nsonsonoe a εwɔ mu)
distributive property	nkonta fa a εma wo de nneεma de mmɔho nɔma di dwuma nkonkoro
domain	ne deε mu (nea εwom)
double bar graph	mmaa a εbɔ ho mmienu nkonta nfonin
double line graphs	nsaneε a εbɔ ho mmienu nkonta nfonin
draw a graph	dwi nkonta nfonin
draw a picture	dwi nfonin ankasa
draw conclusions	kyerε ase/nea efi mu aba
equation	afanu a pεrepεre da ntam
equation of a line	nsaneε a wɔde nɔma ahorow akyerεw
equidistant	kwan abien no tenten yε pe
equivalent customary units of	nea εne agyiraehyεdeε a yεde susu yε pe
equivalent fractions	nɔma sini a εye pe
equivalent numerical expressions	nɔma ntwerεεε a εye pe
equivalent ratios	nkyekyemu a εye pe
estimate	fa w'ani susu (fa w'ani bu)
evaluate	pεnsεnpεnsεn mu (kyerε/bu senea ete)
evaluate conjectures	pεnsεnpεnsεn agyinasie a ne nyinasos sua
evaluate efficiency	pεnsεnpεsn n'ahoden mu
exchange rate table	nea yegyinaso de yε nsesa pono
expenses	ka ahorow
explain	kyerεkyerε mu
explore	wurewura mu (hwewhε mu)
exponent	nɔma bi ankasa mmɔho agyiraehyεde
exponential form	adepegya ho tebea
extend	tene mu
exterior angle	angil a εwɔ mfonin bi akyi
extremes (of a proportion)	mmoroso
faces and bases	anim ne aseε ahodo
of cones	kones de

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<b>ENGLISH</b>	<b>TWI</b>
of cylinders	silinda de
of prisms	prisim de
of pyramids	piramid de
factor	nɔma a etumi kye foforo mu pεpεεpε
Fahrenheit	fahrenheit
favorable outcome	nea efri mu ba a eye
fixed distance	kwan tenten a yεatwa ato hɔ
formally	nea eye/nea wogye tom
formula	nea wonam so nya mmuaεε
formulate	nwene
formulate mathematically	nwene no nkonta kwan so
fraction	nɔma sini (nkyekyεmu)
frequency	berε dodoč (mpεn dodow)
frequency table	berε dodoč pono/nhyehyεε
function	adeyč (akontaabu aseм)
function notation	adeyč nsiananmu (akontaabu aseм nkyerεwde)
function rule	adeyč ho mmara (akontaabu aseм bi ho mmara)
fundamental counting principle	adekenkan nhyeaseε ho mmara
gallon	galɔn
generalizations	ma ne mfa ade biara ho
geometric shape	geometri ho abosuo
geometry	geometri
Graphically	ɛho mfonin twa (mfonin kwan so)
gratuity	nnaseε sika
greatest common factor	nɔma a etumi kye mu a εso sen biara
height	ne tenten kɔ sorø (ne sorokɔ)
histogram	histogram mfonin
hypotenuse	haipotenus
ideas	adwenepeč ahorow
identity	nɔma a εmfa nsakrae mma foforo so
identity element	nea εmfa nsakrae mma foforo so
identity property of addition	nkabom mu nsakrae a εmma
identity property of multiplication	mmøho mu nsakrae a εmma
image	mfonin
impossible outcomes	nea efri mu ba a εnnyε yie
income	akatua
Indirect	εnnyε pɔtee/tee
inductive reasoning	adwenefa a εwɔ nnyinaso
inequality	afanu a εnnyε pe
informally	cɔncɔp kwan so
input values	mma a yεde hye mu
integer	intiga nɔma
integer coefficients	nɔma ahorow a etwa intiga mmøho
integral	ehia paa
integral exponents	mmøho ahyεnsode ahorow a ehia

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<b>ENGLISH</b>	<b>TWI</b>
interconnect	abusuabɔ dedadeda mu
interest	nsiho
interest rates	nsiho dodoɔ
interior angles	angil a εwɔ mu
interpret	kyerɛ aseɛ
interpret graphs	kyerɛ nkonta nfonin no ase
invalid approach	kwan a yɛfa so a εnnyɛ yie
inverse element	emu ade a εma nnane
inverse operation	dwumadi a adi adane
investigate	hwehwɛ mu
investigate conjectures	hwehwɛ tirimbɔ ahorow mu
irrational numbers	nɔma a ntiasiε nnim
irregular polygon	poligɔn a n'abosua ho nna hɔ
irrelevant information	asɛm a enhia
justify	kyerɛ nea enti
language of logic (and, or, not)	nyansa kasa(ne, anaa, εnyɛ)
law of exponents for division	nɔma ankasa mmɔho mmara a εfa nkyekyemu ho
law of exponents for multiplication	mmɔho mmara a εfa mmɔho ho
law of exponents	mmɔho mmara
legs of a right triangle	traiangil a ekura ɔfa 90 ase
length	tenten
levels of precision	ne pɛrepɛreyɛ gyinabea (senea ne pɛyɛ te)
like (common) denominators	nɔma a wotumi de hyɛ nɔma biara ase
like terms	nea εwɔ ha wɔ ha
line	nsesaneɛ
line graph	akontaabu mu nsesaneɛ ho nfonin
line symmetry	nsesaneɛ a etwa sɛso
linear equation	nsesaneɛ a wɔde nɔma akyerɛw a pɛyɛ wom
linear inequalities	nsesaneɛ a wɔde nɔma akyerɛw a pɛyɛ nnim
linear relationship	nsesaneɛ mu twaka
liter	lita
logic	nyansa/nτeasɛ
logical argument	anodisɛm a nyansa wɔ mu
logical reasoning	nyansa ho adwenefa (nsusuwho a nτeasɛ wom)
lowest terms	nea εwɔ fam koraa
magnitude	ne kesɛɛ
make conjectures	yɛ tirimbɔ
manipulative (s)	nea wɔde dannan
map scale	asase mfonin susude
mathematical argument	nkonta mu asɛm
mathematical ideas	nkonta ho adwene ahorow
mathematical language	nkonta kasa
mathematical phenomena	nkonta mu ahγɛnsoode
mathematical relationships	nkonta mu abusuabɔ ahorow
mathematical statement	nkonta asɛm

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<b>ENGLISH</b>	<b>TWI</b>
mean	nea wɔhwε kwan
mean (of a proportion)	nea wɔhwε kwan (nkyekyem mu)
measure capacity	susu tumi/kεseyε
measures of central tendency	susude ahorow a wɔde hwε nsem bi mu
median	nɔma ahodoo mu nea εwɔ mfinfini
methods of proof	akwan ahodoɔ a yεnam de ma adansiedie
metric system	mεtrik nhyehyεες
metric units of capacity	mεtrik kεseyε ho susude ahorow
metric units of mass	mεtrik ade mu duru ho susude ahorow
milliliter	mililita
misleading	εyε nnaadaa
mixed numbers	nɔma a adi afra
mode	nɔma a epue kεse
model (noun)	adenhwεsɔɔ (nhwεsode)
model problems	ɔhaw nhwεsɔɔ (nhwεsode haw ahorow)
model situations	nhwεsode tebea ahorow
model using manipulatives	nhwεsode a wɔde adannande di dwuma
model (s)	nhwεsodeε
models	nhwεsodeεε
monitor	fa w'ani di akyire
monomial	nkyerεwde biako
multiple	mmɔho
multiple representations	nsenkyerεnne ahorow
multiplicative inverse (reciprocal)	mmɔho a etumi di nsesa
multiply (multiplication)	yε no mmɔho
natural numbers	nɔma ankasa
negative	abirabɔ
nonadjacent side of a triangle	traiangil fa a εnsan so
nonlinear equation	pεyε asem a ne mfonin nkɔ tee
nonlinear relationship	twaka a ne mfonin nnkɔ tee
non-perfect squares	nɔma a ne mmɔho nnsi so
non-repeating decimal	akyiripɔ nɔma a εntoa so
nonstandard representations	asiananmu a enni susudua
non-terminating decimal	akyiripɔ a eso ntwa
not preserved	yεn koraa so
number line	nsesaneε a nɔma hyehyε so
number system	nɔma nhyehyεες
numeric (arithmetic) expression	akontaabu asem
numerical problem	akontaabu mu haw
numerically	nɔma kwan so
observe patterns	hwε nhwεsode ahorow
operation	oprehyεn/dwumadi
operations with polynomials	pɔlinomial dwumadi ahorow
order (verb)	hyehyε
order of operations	sεnea wɔahyehyε dwumadi ahorow

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<b>ENGLISH</b>	<b>TWI</b>
ordered pair	adeε mmienu a y'ahyehyε
organize work	hyehyε adwuma
organized chart	mfonin a wɔahyehyε
organized list	ade nnidisonnidiso a wɔahyehyε
parallel lines	nsesaneε mmienu a enni nhiamu da
Percent	ɔha nkyemu
percent decrease	ɔha nkyemu a εso ate
percent increase	ɔha nkyemu a akɔ soro
percent of quantity	dodow ɔha nkyemu
perfect square	nɔma krɔ no ara mmɔho a esisis o
perimeter	kyinhyia tenten
perpendicular bisector	abaa a εkyε adeε mu mmienu pεreεερε ne tenten mu
personal references for capacity	ankorankore nsɛm a wɔde kyere kεseyε
personal references for units of	ankorankore nsɛm a wɔde kyere susude ahorow ma
physical phenomena	dwumadi a wohu
Pi(TT)	Pi(TT)
pint	Pint
plot	Yε/twa
point	Osipɔw
polygon	Pɔligon
polynomial	pɔlinomial
population	dodoɔ
positive	Nea εkɔ anim
possible outcomes	nea ebetumi afri mu aba
power	tumi
predict	fa w'adwene ka (bɔ wo tirim ka)
pre-image	nfonin nnianim
preserved	y'akora
prime factorization	Nɔma a n'ankasa ne biako nkutoo kyem a woyi fi mu
probability	ebetumi asi
procedures	akwan
process of elimination	kwan a yεnam so yi bi fri mu
profit	Mfasoɔ
properties of real numbers	Nɔma ankasa su ahorow
proportion	kyεfa
proportional reasoning	kyεfa ho nsusuwiι
proportionality	nkyekyemu
protractor	angil susude
Pythagorean theorem	Pythagoras akontaabu
quadrant	nkyekyem anan mu baako
quadratic equation	kwadratik pεyε asem
quadratics	kwadratik ahorow
quadrilateral	afanan
quart	kwɔt
radius	kanko mu tenten fa

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<b>ENGLISH</b>	<b>TWI</b>
range	nsonsonε a εda nɔma kεse paa ne ketewa ntam
rate	adeε a yεde kari
rate	adeε a yεde kari
rate of change	dee yεde kari deye nsesa (sεnea εsesa)
rate of interest	dee yεde kari yε nsiho (nsiho dodow)
ratio	nkyekyemu
rational numbers	nɔma a nteaseε wɔ mu
rationale	adwene a εtae akyire
real numbers	nɔma ankasa
reasonableness of a solution	anoylie mu nyansa/ntrase
recognize connections	hyε abusuabɔ ahorow nsow
record data	yε nsem ho kyerewtohɔ
rectangle	rεktangil
rectangular prism	rεktangil prisim
reflect	yi ne seso
reflection	ne seso
refute	bɔ gu
regular polygon	ɔɔlɔgɔn a εho da hɔ
relation	twaka/abusuabɔ
relative error	mfomsoɔ a yεde atoto ho
relevant information	nsem a εfa ho
repeating decimal	akyiripɔ a εtɔatoa so
results	nsunsuanso
rhombus	rombɔs
right angle	angil a εyε 90
rotate	di ntwaho
rotation	ntwaho/kyinhyia
rotational symmetry	ntwaho a etwa seso
round (verb)	twa kanko
rule	mmara/ahyεde
Sale price	bɔ a yεde tɔn ade
Sales	adetɔn
sampling	dodow mu kakra a woyi
scientific notation	nkyerewde a wɔagye atom
sector	kanko fa bi
segment bisector	nsesaneε a εfa baabi
similar triangles	traiangil ahorow a εsesε
simple interest	nsiho a εmmobɔ ho
simplify	ma mu εnyε mmere (ma εmmra fam koraa)
simplify expressions	nsem a y'ama aba fam
slope	nea esian
slope-intercept form	kwan a etwa nea esian mu
social contexts	egyina asetena mu nsem so
social phenomena	asetena mu nsem
solution	anoylie

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<b>ENGLISH</b>	<b>TWI</b>
solution set	nea efi mu ba kuw
solution set of an equation	peye asem anoyie kuw
solution set of an inequality	nea peye nnim anoyie kuw
solutions	anoyie ahodoɔ
solve	di haw ho dwuma
solve a simpler problem	di ɔhaw ketewa ho dwuma
spatial reasoning	wim adesusuw
special case (s)	asem soronko
square	nea ɛwɔ afa nan
square root	nɔma bi ase a wɔabu abɔ ho
standard form of a number	nɔma a wɔakyerew no kwan a y'agye atom
standard representations	senkyerenne ahorow a wɔagye atom
statistics	akontaabu mu amaneɛbɔ
straight edge	ntweaso a etene
strategies	kwan a wɔfa so
strategy selection	kwan a wɔfa so a wɔpaw
subset	ɔfa bi
substitute	nsiananmu
supplementary angles	angil ahorow a ɛka bom yε 180
supportive argument	anodisem a yede boa
surface area of prisms	prisim no ho nyinaa kese
surface area of cylinders	silinda no ho nyinaa kese
symbols in verbal form	agyiraehyedee a yede ano ka
symbols in written form	agyiraehyedee a y'atwerε
symmetry	emukyε mmienu pεrεερε
system of equations	peye nsɛm ahorow
system of inequalities	nsɛm ahorow a peye nnim
table of values	mma a ɛhyehyε pono mu
tax	ɛtoɔ
technical writing	nimdeε pɔtee bi ho ntwerεε
term	asɛmfua/asem
terminating decimal	akyiripɔ a entoa so
transformation	nsesae
transformational geometry	geometri mu nsesaeε
translate	kyerε kasa aseε
translation	kasa nkyerεaseε
transversal	ɛtwam
Trapezoid	trapisɔid
Trial and error	nea wɔye hwε
triangle	traiangil
trinomial	trinomial
unlike denominators	nɔma a yede hyε ɔfɔforɔ ase a εnse
valid approach	kwan a wonam so a ebεyε yie
validity of sample methods	senea dodow mu kakra a woyi di mu fa
variable	aba a etumi sesa

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<b>ENGLISH</b>	<b>TWI</b>
Venn diagram	Venn nfonin wɔ nkonta mu
verbal expression	anokasa nsem
verbal form	anokasa kwan so
verbal sentence	anokasa ɔkasamu/kasasin
verbal symbols	anokasa mu agyiraehyedee
verbally	anokasa mu
verify claims of others	hwehwe nsem a nkɔfɔ aka mu nokore
verify results	hwehwe se nsunsuanso no ye nokore
vertex	mpsondumcpod
vertical	ne tenten nyinasoo
vertical angles	angil abien a edi nhwəanim
vertical line test	nsesaneε a egylina hɔ nschhwɛ
vertical lines	nsesaneε a egylina hɔ
visualization	adwene a wode bu biribi
volume	emu ksesε
volume of a cylinder	selinda mu ksesε
volume of a prism	prisim mu ksesε
whole number	nɔma mua
width	tetrεtε
work backwards	di dwuma kɔ akyi
write an equation	twere pεye asem
Y-intercept	Y-ntwamu
zero property of multiplication	wode nɔma biara bɔ hwee ho a, εye hwee