

Glossary

Intermediate School Level

Mathematics Glossary

English / Kinyarwanda



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

ENGLISH	KINYARWANDA
absolute value	agaciro ndakuka
accurately label work	kuranga umurimo nyabyo
adapt	guhuza
additive inverse	icurika teranya
adjacent	zegeranye
adjacent side of a triangle	impande zegeranye za mpandeshatu
algebra	alijebure
algebraic equation	inganyagaciro y'alijebure
algebraic expression	inyandiko y'alijebure
algebraic inequalities	ubusumbane bw'alijebure
algebraic pattern	imiterere y'alijebure
algebraic solution	igisubizo cy'alijebure
algebraically	mu buryo bw'alijebure
alternate exterior angle	indi mfuruka yo hanze
alternate interior angles	izindi mfuruka z'imbere
altitude	ubutumburuke
analyze	gusesengura
angle bisector	imfuruka icyemo kabiri
angle pairs	imfuruka y'inyabubiri
apply	gukoresha
apply a variety of strategies	gukoresha ingamba zinyuranye
appropriate mathematical terms	ibigize imibare bikwiriye
approximation	igereranya
arc	agaheto
area	ubuso
area of a circle	ubuso bw'uruziga
argument	ingingo
arithmetically	mu buryo bw'imihiriko
associative property of addition	ikiranga mpuza k'igiteranyo
associative property of multiplication	ikiranga mpuza k'ikuba
base (of percent)	ishingiro (ry'ijanisha)
base of a 2-dimensional shape	ishingiro ry'ishusho mpande 2
base of a 3-dimensional shape	ishingiro ry'ishusho mpande 3
base ten number system	uburyo bw'imibare ishingiyeye ku icumi
binomial	mibare ibiri
bisector	icamo kabiri
calculate	kubara
calculate distance	kubara intera
calculate unit price	kubara igiciro shingiro
calculate volume	kubara ubunini
Celsius	Serisiyusi
central angle	imfuruka yo hagati
chord	umurongo mpuzampembe
circle	uruziga
circle graph	imbonerahamwe ruziga

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ENGLISH	KINYARWANDA
circumference	umuzenguruko
clarifying questions	gusobanura ibibazo
coefficient	umubare nkubishwa
coherent	bisobanutse
collaboration	ubufatanye
combine like terms	guhuza imibare isa
commission	komisiyo
commutative property of addition	iteranya rikomatanya
commutative property of multiplication	ikuba rikomatanya
compare strategies	kugereranya ingamba
compare unit price	kugereranya igicro shingiro
Compass	Idira
complementary angles	imfuruka zuzuzanya
compound events	ibikorwa bishamikiranye
comprehend	gusobanukirwa
conclusion	umwanzuro
conduct	gutegura
congruent	bimeze kimwe
conjecture (noun)	ukwibwira
conjecture (verb)	kwibwira
connections	amahuriro
consecutive integers	imibare ishyitse ikurikirana
consolidate	guhuza
constraints	imbogamizi
construction	iyubakwa
convert money	guhindura amafaranga
convert capacity within a given	guhindura ubushobozi mu
convert mass within a given system	guhindura uburemere mu buryo runaka
convert volume within a given system	guhindura ubunini mu buryo runaka
convert within a given system	guhindura mu buryo runaka
coordinate geometry	guhuza jewometiri
corresponding angles	imfuruka zihura
corresponding sides	impande zihura
counterexample	ihakanarugero
counting (natural) numbers	kubara imibare ishyitse
counting numbers	kubara imibare
cup	igikombe
customary units of capacity	ingero zisanzwe z'ubushobozi
customary units of mass	ingero zisanzwe z'uburemere
data	amakurushingiro
decode	gusobanura
defend	gushyigikira
degree of a polynomial	dogere y'igiteranyo cy'imibare irenze umwe
density	ireme bwite
dependent events	ibitigenga

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ENGLISH	KINYARWANDA
describe	gusobonura
develop formulas	gushyiraho ihinamvugo
diameter	umurambararo
differentiate	gutandukanya
dilate	kwikanyura
dilation	ikanyura
dimensions	ibipimo
discuss	kuganira
distance	intera
distinguish	gutandukanya
distributive property	ubushobozi bwo gukwirakwiza
domain	urwego
double bar graph	imbonerahamwe y'inkingi ebyiri
double line graphs	imbonerahamwe z'imirongo ibiri
draw a graph	shushanya imbonerahamwe
draw a picture	shushanya ifoto
draw conclusions	fata imyanzuro
equation	inganyagaciro
equation of a line	inganyagaciro y'umurongo
equidistant	intera ingana
equivalent customary units of	ingero zisanzwe zingana za
equivalent fractions	imigabane ingana
equivalent numerical expressions	inyandiko y'imibare bingana
equivalent ratios	ibipimo bingana
estimate	kugereranya
evaluate	gusuzuma
evaluate conjectures	gusuzuma ibyibwirwa
evaluate efficiency	gusuzuma imikorere myiza
exchange rate table	guhinduranya imbonerahamwe y'ibipimo
expenses	ibyishyuwe
explain	gusobanura
explore	kurondora
exponent	ubwikube
exponential form	uburyo bw'ubwikube
extend	kwagura
exterior angle	impembe yo hanze
extremes (of a proportion)	impera (z'umuhuro)
faces and bases	amashusho n'ishingiro
of cones	by'imitemeri
of cylinders	by'imyiburungushure
of prisms	bya purisime
of pyramids	by'imitemeri nyamigongo
factor	umubare
Fahrenheit	Farineyiti
favorable outcome	igisubizo kiza

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ENGLISH	KINYARWANDA
fixed distance	intera yagenwe
formally	mu buryo nyabwo
formula	ihinamvugo
formulate	kwandika inzira
formulate mathematically	kwandika inzira mu buryo bw'imibare
fraction	umugabane
frequency	ubwisubire
frequency table	imbonerahamwe y'ubwisubire
function	imikorere
function notation	inyandiko y'imikorere
function rule	itegeko ry'imikorere
fundamental counting principle	ihame shingiro ryo kubara
gallon	galo
generalizations	amahitamo rusange
geometric shape	ishusho ya jewometiri
geometry	jewometiri
Graphically	mu mbonerahamwe
gratuity	imperekeza
greatest common factor	umubare munini uhuriweho
height	uburebure
histogram	hisitogaramu
hypotenuse	umubereranguni
ideas	ibitekerezo
identity	umwirondoro
identity element	ikiranga umwirondoro
identity property of addition	ibiranga umwirondoro wo guteranya
identity property of multiplication	ibiranga umwirondoro wo gukuba
image	ishusho
impossible outcomes	ibisubizo bidashoboka
income	umusaruro
Indirect	iziguye
inductive reasoning	inyurabitekerezo
inequality	ubusumbane
informally	mu buryo butemewe
input values	uduciro twongerwamo
integer	umubarwa wuzuye
integer coefficients	imibare nkubishwa y'umubare wuzuye
integral	integarare
integral exponents	imibarwa nkubishwa yuzuye
interconnect	guhuriza hamwe
interest	inyungu
interest rates	ibipimo by'inyungu
interior angles	imfuruka z'imbere
interpret	gusonura
interpret graphs	gusobanura imbonerahamwe

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ENGLISH	KINYARWANDA
invalid approach	uburyo butari bwo
inverse element	gucurika igice
inverse operation	gucurika igikorwa
investigate	kugenzura
investigate conjectures	kugenzura ibyibwirwa
irrational numbers	imibare itari iy'ukuri
irregular polygon	ikinyampande kitaranganiye
irrelevant information	amakuru atari ingenzi
justify	kuringaniza
language of logic (and, or, not)	imvugo y'inyurabwenge (na, cyangwa, oya)
law of exponents for division	itegeko ry'ubwikube mu kugabanya
law of exponents for multiplication	itegeko ry'ubwikube mu gukuba
law of exponents	itegeko ry'ubwikube
legs of a right triangle	amaguru ya mpandeshatu ndinganire
length	uburebure
levels of precision	inzego zo kurasa ku ntego
like (common) denominators	ibyita (rusange) bimwe
like terms	imibare imwe
line	umurongo
line graph	imbonerahamwe y'imirongo
line symmetry	ukuringanira kw'imirongo
linear equation	inganyagaciro murongo
linear inequalities	ubusumbane murongo
linear relationship	isano murongo
liter	litiro
logic	inyurabwenge
logical argument	ingingo nyurabwenge
logical reasoning	imitekerereze nyurabwenge
lowest terms	ingero ntoya cyane
magnitude	ubunini
make conjectures	kwibwira
manipulative (s)	ibihindurwa
map scale	ingero z'ikarita
mathematical argument	ingingo y'imibare
mathematical ideas	ibitekerezo by'imibare
mathematical language	imvugo y'imibare
mathematical phenomena	ibijyanye n'imibare
mathematical relationships	amasano y'imibare
mathematical statement	ingingo y'imibare
mean	impuzandengo
mean (of a proportion)	impuzandengo (y'umuhuro)
measure capacity	ubushobozi bwo gupima
measures of central tendency	ibipimo by'umurongo rwagati
median	impuzampembe
methods of proof	uburyo bw'umugabo

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ENGLISH	KINYARWANDA
metric system	uburyo bwo gupima
metric units of capacity	ingero zo gupima ubushobozi
metric units of mass	ingero zo gupima uburemere
milliliter	mililitiro
misleading	iyobya
mixed numbers	imibare ivanze
mode	umubare ngaruka
model (noun)	ikitegererezo
model problems	ibibazo by'ikitegererezo
model situations	uburyo bw'ikitegererezo
model using manipulatives	ikitegererezo gikoresha ibihinduka
model (s)	ibyitegererezo
models	ibyitegererezo
monitor	kugenzura
monomial	umubare umwe
multiple	myinshi
multiple representations	ukugaragaza kwinshi
multiplicative inverse (reciprocal)	icurika rikuba (magirirane)
multiply (multiplication)	gukuba (ikuba)
natural numbers	imibare karemano
negative	kuramo
nonadjacent side of a triangle	impande zitegeranye za mpandeshatu
nonlinear equation	inganyagaciro itari ku murongo
nonlinear relationship	isano ritari ku murongo
non-perfect squares	kare zitaboneye
non-repeating decimal	ibinyacumi bitisubiramo
nonstandard representations	ukugaragaza kutemewe
non-terminating decimal	ibinyacumi bidasoza
not preserved	bitabitswe
number line	umurongo w'imibare
number system	uburyo bw'imibare
numeric (arithmetic) expression	inyandiko y'imibare (imihiriko)
numerical problem	ikibazo k'imibare
numerically	mu buryo bw'imibare
observe patterns	kugenzura imiterere
operation	ihurizo
operations with polynomials	amahurizo y'imibare myinshi
order (verb)	gutunganya
order of operations	imiterere y'amahurizo
ordered pair	inyabubiri itunganyije
organize work	gutegura umurimo
organized chart	imbonerahamwe iteguye
organized list	urutonde ruteguye
parallel lines	imirongo iringaniye
Percent	ljanisha

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ENGLISH	KINYARWANDA
percent decrease	igabanyuka ry'ijanisha
percent increase	ubwiyongere bw'ijanisha
percent of quantity	ijanisha ry'ingano
perfect square	kare iboneye
perimeter	umuzenguruko
perpendicular bisector	ibice bibiri binyuranamo
personal references for capacity	ibishingirwaho bwite mu bushobozi
personal references for units of	ibishingirwaho bwite mu binyabumwe bya
physical phenomena	ibigaragara
Pi(π)	Pi(π)
pint	pinte
plot	ipfundo ry'inkuru
point	akadomo
polygon	ikinyampande
polynomial	imibare myinshi
population	abaturage
positive	teranya
possible outcomes	ibisubizo bishoboka
power	ubushobozi
predict	guteganya
pre-image	ishushombanza
preserved	yabitswe
prime factorization	ibyiciro ry'imibare shingiro
probability	icungamahirwe
procedures	inzira
process of elimination	inzira yo kvanamo
profit	inyungu
properties of real numbers	ibiranga imibare nyakuri
proportion	umuhuro
proportional reasoning	imitekerereze ihuye
proportionality	ukuringaniza
protractor	agapimisho k'impembe
Pythagorean theorem	lhame rya Pitagore
quadrant	icyakane cy'uruziga
quadratic equation	inganyagaciro y'imibarwa ine
quadratics	imibarwa ine
quadrilateral	ibinyampandenye
quart	icyakane
radius	akarambararo
range	uruhererekane
rate	igipimo
rate	igipimo
rate of change	igipimo k'impinduka
rate of interest	igipimo cy'inyungu
ratio	igipimo

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ENGLISH	KINYARWANDA
rational numbers	imibare fatizo
rationale	ishingiro
real numbers	imibare nyakuri
reasonableness of a solution	ugushoboka kw'igisubizo
recognize connections	kumenya amahuriro
record data	gufata amakuru
rectangle	urukiramende
rectangular prism	purisime y'urukiramende
reflect	kugaragaza
reflection	igaragaza
refute	guhakana
regular polygon	ikinyampande gisanzwe
relation	isano
relative error	ikosa risanzwe
relevant information	amakuru y'ingenzi
repeating decimal	ikinyacuni kisubiramo
results	ibisubizo
rhombus	umwashi
right angle	imfuruka igororotse
rotate	kuzungurutsa
rotation	izungurutsa
rotational symmetry	iringaniza rizunguruka
round (verb)	kuburungushura
rule	itegeko
Sale price	Igiciro cy'ibyacurujwe
Sales	Ibyacurujwe
sampling	guhitemo ikitegererezo
scientific notation	ikimenyetso cya siyansi
sector	ikiciro
segment bisector	uruhande rw'ibice bibiri
similar triangles	mpandeshatu zisa
simple interest	inyungu yoroshye
simplify	koroshya
simplify expressions	koroshya imvugo
slope	agacuri
slope-intercept form	imiterere iberamye–inyuranamo
social contexts	uburyo bw'imibanire
social phenomena	ibijyanye n'imibanire
solution	igisubizo
solution set	ibisubizo
solution set of an equation	ibisubizo by'inganyagaciro
solution set of an inequality	ibisubizo by'ubusumbane
solutions	ibisubizo
solve	gusubiza
solve a simpler problem	gusubiza ihurizo ryoroshye cyane

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ENGLISH	KINYARWANDA
spatial reasoning	imitekerereze sura
special case (s)	ingingo zihariye
square	kare
square root	ubwikubekabiri
standard form of a number	inyandiko yemewe y'umubare
standard representations	ukugaragaza kwemewe
statistics	ibarurishamibare
straight edge	uruhande rugorotse
strategies	ingamba
strategy selection	guhitemo ingamba
subset	agatsinda
substitute	insimbura
supplementary angles	imfuruka zunganira
supportive argument	ingingo ishyigikira
surface area of prisms	ubuso bwa purisime
surface area of cylinders	ubuso bw'umwiburungushure
symbols in verbal form	ibimenyetso mu magambo
symbols in written form	ibimenyetso mu nyandiko
symmetry	ukuringanira
system of equations	uburyo bw'inganyagaciro
system of inequalities	uburyo bw'ubusumbane
table of values	imbonerahamwe y'uduciro
tax	imisoro
technical writing	imyandikire ya tekini
term	umubare
terminating decimal	ikinyacumi gisoza
transformation	impinduka
transformational geometry	jewometiri izana impinduka
translate	gusemura inyandiko
translation	isemuranyandiko
transversal	ndengampembe
Trapezoid	Tarapezi
Trial and error	Igerageza n'ikosa
triangle	mpandeshatu
trinomial	imibare itatu
unlike denominators	ibyita bidashoboka
valid approach	uburyo bwemewe
validity of sample methods	kwemeza uburyo bw'ikitegererezo
variable	impinduragaciro
Venn diagram	imborehamwe ya Venn
verbal expression	inyandiko nyemvugo
verbal form	ifishe nyemvugo
verbal sentence	interuro nyemvugo
verbal symbols	ibimenyetso nyemvugo
verbally	mu magambo

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ENGLISH	KINYARWANDA
verify claims of others	kugenzura ibirego by'abandi
verify results	kugenzura ibisubizo
vertex	ihuriro ry'imirongo ibiri
vertical	mpagarike
vertical angles	imfuruka zihagaze
vertical line test	isuzuma ry'umurongo uhagaze
vertical lines	imirongo ihagaze
visualization	iroramashusho
volume	ubunini
volume of a cylinder	ubunini bw'umwiburungushure
volume of a prism	ubunini bwa purisime
whole number	umubare ushyitse
width	ubugari
work backwards	kora usubira inyuma
write an equation	andika inganyagaciro
Y-intercept	inyuraniramo ry'imirongo
zero property of multiplication	ikuba ry'imibare irimo zero