

Glossary

Elementary School Level

Mathematics Glossary

English | Swahili

Translation of Mathematics Terms Based on the Coursework
for Mathematics Grades 3 to 5.



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.

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MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
about	takribani
above	juu ya
absolute value	thamani kamili
accurate	sahihi
accurately label work	tambulisha kazi kwa usahihi
act it out	ifanye
acute angle	pembe kali
acute triangle	pembe tatu kali
add	jumlisha
addend	-a kuongezwa
addition	kujumlisha
addition fact	ukweli wa kujumlisha
addition sentence	sentensi ya kujumlisha
addition sign	alama ya kujumlisha
additive inverses	vinyume jumlishi
after	baada
afternoon	mchana
algebra	algebra
algebraic expression	mlinganyo wa kialgebra
algebraic patterns	ruwaza za kialgebra
algebraic relationship	uhusiano wa kialgebra
algebraically	-a kialgebra
algorithm	kanuni
alike	sawa
all	zote
all together	zote pamoja
almost	nusura
amount	kiwango
analog clock	saa ya analojia
analyze	changanua
angle	pembe
angles, adjacent	pembe, -a kupakana
answer	jibu
ante meridian (a.m.)	asubuhi
apex	upeo
application	matumizi
apply	tumia
approach	mbinu
appropriate mathematical language	lugha muafaka ya kihisabati
appropriate mathematical language	lugha muafaka ya kihisabati
organize work	kupanga kazi
arc	safu
area	eneo
argument	hoja
argument / conjecture / counterexample	hoja/kisio/mfano jibizo
arithmetic (numeric) expression	mlinganyo wa hesabu (namba)

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
arithmetic expression	mlinganyo wa hesabu
arithmetic fact	ukweli wa hesabu
arrange	panga
array	valia
as long as	maadam
associative property	sifa ambatani
attribute	tabia
autumn (fall)	msimu wa kupukutika
average	wastani
axis (axes)	jira (majira)
bar graph	grafu pau
base	kitako
base of a 3-dimensional figure	kitako cha umbo la pande 3
base of a parallelogram	kitako cha msambamba
base of a polygon	kitako cha poligoni
base of a polyhedron	kitako cha cha polihedroni
base of a rectangle	kitako cha mstatili
base of a triangle	kitako cha pembe tatu
base ten number system	mfumo wa namba wa kizio cha kumi
before	kabla
below	chini ya
beside between on	kando katikati ya
big/bigger/biggest	kubwa/kubwa zaidi/kubwa kabisa
bisect	gawakati
calculate	kokotoa
calendar	kalenda
capacity	ujazo
cardinal numbers (1-10)	namba kamili (1 – 10)
cent	senti
centimeter (cm)	sentimeta
chance	nafasi
charts	chati
circle	duara
circle graph	grafu ya duara
circumference	mzingo
clarify	fafanua
classify triangles	ainisha pembe tatu
closed figure	umbo funge
coin	sarafu
collaborate	shirikiana
collection	mkusanyiko
common	kawaida
common denominator	namba asili ya kawaida
common multiple	namba zidisha ya kawaida
commutative property of addition	tabia ya mabadiliko ya kujumlisha
commutative property of multiplication	tabia ya mabadiliko ya kuzidisha

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ENGLISH	SWAHILI
compare	linganisha
compare numbers	linganisha namba
compatible numbers	namba tangamanifu
compensation	fidia
complementary angles	pembe za nyongeza
compose a number	andika namba
compose shapes	tengeneza maumbo
composite number	namba mseto
concentric circles	duara zenye senta moja
conclusion	hitimisho
concrete representations	uwakilishaji thabiti
cone	pia
congruent	lingana
congruent triangles	pembe tatu linganifu
conjecture	kisio
connect	unganisha
consecutive	mfuatano
consecutive angles	pembe mfuatano
constant	-a kudumu
construct	unda
contrast	tofauti
conversion fact	ukweli wa kubadili
convert	badilisha
coordinate	unganisha/kiunganishi
coordinate grid	kiunganishi cha mraba fito
coordinate plane	ubapa kiunganishi
corner	kona
corresponding angles	pembe linganifu
corresponding sides	pande linganifu
count back	hesabu nyuma
count backwards	hesabu kurudi nyuma
count on	hesabu kwenda mbele
counterexample	mfano jibizo
counting numbers	kuhesabu namba
cube	mche mraba
cubic centimeter (cm ³)	sentimita za ujazo
cubic unit	kitengo ujazo
cup (c)	kikombe
currency symbols	alama za fedha
customary measurement system	mfumo wa vipimo vilivyozoeleka
data	data
data frequency table	jedwali la idadi ya data
day	siku
daylight	mchana
decagon	pembekumi
decimal fraction	sehemu ya desimali

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ENGLISH	SWAHILI
decimal number	namba ya desimali
decimal point	nukta ya desimali
decimeter	desimita
decompose a number	changanua namba
decompose shapes	changanua maumbo
decrease	punguza
decreasing sequences	kupunguza mifuatano
degree	nyuzi
degree measure of an angle	kipimo cha nyuzi cha pembe
denominator	namba asili
density	msongamano/uzito
design	sanifu
diameter	kipenyo
differences	tofauti
digit	tarakimu
digital clock	saa ya kidijiti
digits	tarakimu
dime	sarafu
dimension	kipimo
discuss	jadili
distributive property	sifa ya ugavi
divide	gawa
dividend	kigawanyo
divisibility test	jaribio la ugawanyikaji
divisible	-a kugawanyika
divisible by	inagawanyika kwa
division	kugawanya
divisor	kigawanyo
dodecahedron	umbo lenye sura kumi na mbili
dollar (\$)	dola (\$)
doubles minus one	maradufu toa moja
doubles plus one	maradufu kujumlisha moja
doubling	kuongeza maradufu
draw a graph	chora grafu
draw a picture	chora picha
drawings	michoro
edge	pembe
eight	nane
elapsed time	muda uliotumika
ellipse	duaradufu
endpoint	kituo cha mwisho
equivalent equations	milinganyo sawa
equal (=)	sawa sawa (=)
equal to (=)	sawa sawa na (=)
equation	milinganyo
equidistant marks	alama za nafasi ya kati

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ENGLISH	SWAHILI
equilateral polygon	poligoni sawa
equilateral triangle	pembe tatu sawa
equivalent	sawa na
equivalent decimals	desimali sawa
equivalent fractions	sehemu sawa
equivalent numerical expressions	miliganyo wa namba sawa
equivalent ratios	uwiano sawa
estimate	kadiria
estimation	kadirio
estimation strategies	mikakati ya ukadiriaji
evaluate	tathmini
even number	namba shufwa
evening	jioni
event	tukio
examine	chunguza
example	mfano
expanded form	njia ya kupanulia
experimental results	majibu ya jaribio
explain	elezea
explain mathematical relationships	eleza mahusiano ya kihisabati
explore	chunguza
explore mathematical relationships	chunguza mahusiano ya kihisabati
exponential notations	nukuu za kipeo
extend a pattern	panua ruwaza
extend models	panua muundo
extended fact	kweli iliyopanuliwa
face	uso
fact	ukweli
fact family (related facts)	familia ya ukweli (ukweli unaohusiana)
factor (noun)	gawo (nomino)
factor (verb)	gawa (kitenzi)
factorial	igawikayo
fair share	mgao wa haki
fewer	chache
fewer than	chache kuliko
fifths	-a hamsini
first	-a kwanza
five	tano
flip (reflection)	pindua (aksi)
foot (ft.)	futi
formula	fomula
formulate conclusions from graphs	unda hitimisho kutoka kwenye grafu
formulate predictions from graphs	unda makisio kutoka kwenye grafu
four	nne
four-digit number	namba yenye tarakimu nne
fourth	-a nne

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
fraction	sehemu
frequency table	jedwali la idadi
front-end estimation	kadirio kutoka mbele mpaka nyuma
gallon (gal)	galoni
generate solutions	toa majawabu
geometric fact	ukweli wa kijiometri
geometric figure	umbo la kijiometri
geometric pattern	ruwaza ya kijiometri
geometric solid	yabisi ya kijiometri
geometry	jiometri
gram (g)	gramu (g)
graphical representations	uwaklishi wa grafu
graphs	grafu
greater	kubwa
greater than (>)	kubwa kuliko (>)
greatest	kubwa kabisa
greatest common divisor (GCD)	kigawanyo kikubwa cha shirika
greatest common factor (GCF)	zao mtiririko kubwa la shirika
grid	mraba fito
group how many	panga ni ngapi
guess	kisia
half hour	nusu saa
halves	nusu
halving	kugawanya nusu
heavier	nzito
height	urefu
height of a 3-dimensional figure	urefu wa umbo la pande 3
height of a parallelogram	urefu wa msambamba
height of a rectangle	urefu wa mstatili
height of a triangle	urefu wa pembetatu
heptagon	pembe saba
hexagon	pembe sita
higher	juu zaidi
horizontal	-a mlalo
hour	saa
hour hand	mkono wa saa
hundred chart	chati mia
hundred thousands	mamia elfu
hundred thousand million	milioni mamia elfu
hundreds	mamia
hundreds places	nafasi za mamia
hundredths	-a mamia
hypotenuse	kiegana
icosahedron	umbo la pande ishirini
identify	bainisha
identify the problem	bainisha tatizo

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
element for addition	elementi kwa ajili ya kujumlisha
Identify element for multiplication	tambua elementi kwa ajili ya kuzidisha
impossible outcome	matokeo yasiyowezekana
improper fraction	sehemu isiyofaa
inch (in)	inchi
increase	ongeza
increasing sequences	mfuatano unaoongezeka
inequality	kutokuwa sawa
input values	thamani ya taarifa
Inscribed polygon	poligoni iliyochorwa
inside	ndani
integer	namba kamili
interior angles	pembe za ndani
interpret	tafsiri
interpret models	tafsiri mifano
intersect	kutana
intersecting lines	mistari inayokutana
invalid approach	njia batili
inverse operations	mahesabu ya kinyume
inverse property	sifa ya kinyume
investigate	dadisi
irrational numbers	namba witiri
irregular polygon	poligoni lisilolinganifu
irregular shape	umbo lisilolinganifu
irrelevant information	habari zisizohusika
isosceles triangle	pembetatu pacha
justify	halalisha
key sequence	mfuatano wa msingi
key to a graph	ufunguo wa grafu
kilogram (kg)	kilogramu (kg)
kilometer (km)	kilomita (km)
kite	kishada
label work	tambulisha kazi
language of logic (and, or, not)	lugha ya mantiki (na, au, la)
large / larger / largest	kubwa/kubwa zaidi/ kubwa kabisa
last	mwisho
least common denominator (LCD)	kigawe kidogo cha shirika (KDS)
least common multiple (LCM)	kigao kikubwa cha shirika (KKS)
leg of a right triangle	mguu wa pembetatu mraba
length	urefu
less	pungufu
less than (<)	pungufu kuliko (<)
lighter	nyepesi
like (common denominator)	kama (kigawanyo cha kawaida)
likely	uwezekano
line	mstari

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ENGLISH	SWAHILI
line graph	grafu ya mstari
line of symmetry	mstari wa ulinganifu
line plot	mstari wa mpango
line segment	mstari wa sehemu
line symmetry	mstari linganifu
listen	sikiliza
liter (L)	lita (L)
logical reasoning	fikra za kimantiki
long / longer / longest	refu/refu zaidi/ refu kabisa
longer	refu zaidi
longer than	refu kuliko
look for a pattern	tafuta ruwaza
lower	chini
lowest terms (simplest form)	sehemu za chini kabisa (muundo rahisi kabisa)
make a chart	tengeneza chati
make a diagram	tengeneza mchoro
make an organized chart	panga chati nadhifu
make an organized list	panga orodha nadhifu
make conjectures	tengeneza makisio
make observations	bainisha kwa kutazama
map legend	maandishi ya ramani
map scale	kipimo cha ramani
mass	uzito
match	oanisha
mathematical statements	kauli za kihisabati
mathematics	hisabati
mean	wastani
measure	pima
measurement	kipimo
median	wastani
mental math	hisabati ya akili
meter (m)	mita (m)
metric system of measurement	mfumo wa mita wa vipimo
metric units of measure	vizio vya mita vya kupima
mile	maili
milliliter (ml)	mililita (ml)
millimeter (mm)	milimita (mm)
millions	mamilioni
minuend	namba ya toleo
minus	kutoa
minus sign	alama ya kutoa
minute	dakika
minute hand	mkono wa dakika
mixed number	namba mchanganyiko
mode	modi
money	pesa

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
months of the year	miezi ya mwaka
more	zaidi
more than (>)	zaidi kuliko (>)
more / most	zaidi/mno
morning	asubuhi
multiple	-enye sehemu nyingi
multiple representations	uwakilishi wenye sehemu nyingi
multiplicand	kizidishio
multiplication	kuzidisha
multiplicative inverses	vinyume vya kuzidishwa
multiplier	kizidishi
multiply	zidisha
negative number	namba hasi
negative rational numbers	namba wiano hasi
next	inayofuata
nickel	nikeli
night	usiku
nine	tisa
nonagon	pembetisa
nonstandard measure	kipimo kisicho rasmi
nonstandard representations	uwakilishi usio rasmi
nonstandard units	vizio visivyoo na kiwango
noon	adhuhuri
not equal to (!)	isiyo sawa na (!)
not equal (≠)	isiyo sawa (≠)
number	namba
number in words	namba kwa maneno
number line	mstari wa namba
number model	modeli ya namba
number sentence	sentensi ya namba
number system	mfumo wa namba
numeral	tarakimu
numeration	hesabu
numerator	kiasi cha sehemu
numeric expression	mlinganyo wa kitarakimu
numeric patterns	ruwaza za kitarakimu
numerical problems	matatizo ya kitarakimu
numerically	-a kitarakimu
objects	vitu
objects created using technology	vitu vilivyoundwa kwa kutumia teknolojia
obtuse angle	pembe butu
obtuse triangle	pembetatu butu
octagon	pembe nane
octagon parallel lines	mistari sambamba ya pembe nane
odd number	namba witiri
one	moja

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
one-digit number	namba ya tarakimu moja
ones	mamoja
one's place	nafasi ya mamoja
open figure	umbo wazi
open sentence	sentensi wazi
operation	ukokotoaji
operational method / operation	kanuni ya ukokotoaji/ukokotoaji
oral representations	uwakilishi wa maneno
order	mpangilio
order of operations	mpangilio wa ukokotoaji
ordered number pair	jozi ya namba zilizopangiliwa
ordinal number	namba za mpango
organize	panga
organize work	panga kazi
organize chart	panga chati
organize list	panga orodha
origin	asili
ounce (oz.)	wakia
over	juu ya
pan balance	mizani ya chombo
parabola	parabola
parallel lines	mistari sambamba
parallelogram	msambamba
part	sehemu
part-to-part ratio	uwiano wa sehemu kwa sehemu
part-to-whole ratio	uwiano wa sehemu kwa kitu kizima
pattern	ruwaza
penny	sarafu
pentagon	pembetano
percent	asilimia
perimeter	mzingo
perpendicular lines	mistari wima
personal references	marejeo binafsi
per-unit rate	kiwango kwa kizio
physical models	miundo ya kimwili
pi	pai
pictograph	grafu ya picha
pictorial representations	uwakilishaji wa picha
pint (pt)	painti
place value	thamani ya sehemu
plane	bapa
plane figure	umbo bapa
plot	chora
plus	ongeza
point	ncha
poll	kata ncha za pembe

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
polygon	poligoni
polyhedron	polihedroni
positive number	namba chanya
positive power of 10	kipeo chanya cha 10
positive rational numbers	namba wiano chanya
possible outcomes	matokeo yanayowezakutokea
post meridian (p.m.)	aduhuri
pound (lb.)	ratili
power	kipeo
power of 10	kipeo cha 10
predict	bashiri
prediction	ubashiri
prime factorization	mgawanyo wa namba tasa
prime number	namba tasa
prism	mche
probability	uwezekano
problem solving strategies	mbinu za kutatua tatizo
process of elimination	mchakato wa kuondoa
product	zao
proper fraction	sehemu sahihi
property	tabia
protractor	kipimapembe
pyramid	piramidi
Pythagorean Theorem	kanuni za kipaithegorasi
quadrangle	pembenne
quadrant	roboduara
quadrilateral	pembenne sawa
quart (qt)	kwati
quarter	robo
questions	maswali
quotient	hisa
radius	nusukipenyo
random number	namba nasibu
randomly	bila utaratibu
range	safu
rate	kiwango
ratio	uwiano
rational number	namba wiano
rationale	urazini
ray	mwale
real number	namba halisi
real world math	hisabati ya ulimwengu halisi
real world situation	hali halisi ya dunia
reasonable estimates	makadirio ya kimantiki
reasonableness	umantiki
reasonableness of a solution	umantiki wa jawabu

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
recognize	tambua
rectangle	mstatili
reference frame	fremu ya marejeo
regroup (regrouping)	kusanya (kukusanyika)
regular polygon	poligoni yenye umbo linaloeleweka
regular polyhedron	polihedroni yenye umbo linaloeleweka
related facts	ukweli unaohusiana
relation symbol	alama ya uhusiano
relevant information	habari faafu
remainder	baki
repeated addition	ongezeko la kurudiwa
repeated subtraction	kutoa kwa kurudiwa
repeating decimal	desimali inayojirudia
rhombus	msambamba sawa
right angle	pembe mraba
rotation	mzunguko
round a number	kadiria namba
rounding	kukadiria
rule	kanuni
ruler	rula
same	ileile
sample space	nafasi ya sampuli
scale drawing	mchoro wa kipimo
scale on a graph	kipimo katika grafu
scale to measure mass	kipimo cha kupima uzito
scalene triangle	pembetatu mshazari
scientific notation	nukuu ya kisayansi
seasons in relation to the months	misimu kwa kuhusianisha na miezi
second	sekunde
sector	sekta
semicircle	nusu duara
set of data	seti ya data
set of objects	seti ya vitu
seven	saba
shape	umbo
share	mgao
shorter	fupi
shorter than	fupi kuliko
show	onyesha
side	upande
similar figures	maumbo pacha
similar triangles	pembetatu pacha
similar triangles square	pembetatu mraba pacha
similarities	ufanano
simplest form	muundo rahisi kabisa
simplify an expression	rahisisha mlinganyo

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
simplify fractions	rahisisha sehemu
single event	tukio moja
single-event experiment	jaribio la tukio moja
six	sita
sixth	-a sita
size	ukubwa
skip count	ruka kuhesabu
slide (translation)	teleza (tafsiri)
small / smaller / smallest	ndogo/ndogo zaidi/ndogo kabisa
solid figure	umbo yabisi
solution	jawabu
solutions	majawabu
solve	tatua
solve a simpler problem	tatua tatizo rahisi
some	baadhi
sort	panga
special case	suala maalum
special case (s)	masuala maalum
speed	kasi
sphere	tufe
spring	majira ya kuchipua
square	mraba
square array	mkusanyiko wa mraba
square number	namba mraba
square of a number	mraba wa namba
square root of a number	kipeuo cha pili cha namba
square unit	kizio mraba
standard measure	kipimo rasmi
standard notation	nukuu rasmi
standard representation	uwakilishi rasmi
standard representations	uwakilishi rasmi
standard units	vizio rasmi
stem-and-leaf plot	mchoro wa shina na jani
step graph	grafu ya hatua
straight angle	pembe nyoofu
strategies	mikakati
substitute	weka mbadala
substitution	mbadala
subtract	toa
subtraction	kutoa
subtraction fact	ukweli wa kutoa
subtraction sentence	sentensi ya kutoa
subtraction sign	alama ya kutoa
subtrahend	kitoleo
sum	jumla
summer	kiangazi

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
supplementary angles	pembe nyongeza
survey	hojaji
symbols	ishara
symbols in verbal form	ishara katika muundo wa maneno ya mdomo
symbols in written form	ishara katika muundo wa maandishi
table	jedwali
take away	chukua
tall /taller / tallest	refu/refu zaidi/refu kabisa
tallies	hesabu
tally mark	alama ya hesabu
ten	kumi
ten thousands	kumi maelfu
tens	kumi
tens place	nafasi ya makumi
tenth	-a kumi
term	sehemu
terminating decimal	kuondoa desimali
tessellation	kigae
theorem	kanuni
third	-a tatu
thought process	mchakato uliofikiriwa
thousands	maelfu
thousandth	-a elfu
three	tatu
three-digit number	namba yenye tarakimu tatu
three-dimensional figure	umbo la pande tatu
tiling	kupangilia maumbo
time	muda
to challenge thinking	kupinga wazo
to clarify thinking	kufafanua wazo
to elicit thinking	kushawishi wazo
to extend thinking	kupanua wazo
together	pamoja
ton	tani
translate	tafsiri
trapezoid	msambamba tenge
trial and error	majaribio na makosa
triangle	pembe tatu
true / false	ukweli/uongo
turn (rotation)	zunguka (mzunguko)
two	mbili
two-digit number	namba yenye tarakimu mbili
two-dimensional figure	umbo la pande mbili
types of representations	aina ya uwakilishi
under	chini
understand	elewa

MATHEMATICS - GRADE 3, 4, 5

ENGLISH	SWAHILI
unit	kizio
unit fraction	sehemu ya kizio
unlike denominators	namba asili zinazotofautiana
unlikely	isowezekana
use manipulatives	tumia viendeshi
valid approach	mbinu halali
value	thamani
variable	kigeugeu
Venn diagram	mchoro wa Veni
verbal expression	mlinganyo wa maneno ya mdomo
verbal form of reasoning	aina ya maneno ya mdomo ya mantiki
verbal language	lugha ya maneno ya mdomo
verbal process	mchakato wa meneno ya mdomo
verbal symbols	ishara za maneno ya mdomo
verify claims of others	thibitisha madai ya wengine
verify results	thibitisha matokeo
vertex	kilele
vertical	wima
vertical angles	pembe wima
volume	ujazo
week	wiki
whole	kamili
whole number	namba kamili
whole numbers	namba kamili
whole unit	kizio kamili
width	upana
winter	kipupwe
work backwards	fanya kazi kurudi nyuma
write an equation	andika mlinganyo
written form of reasoning	mantiki ya katika maandishi
written language	lugha ya maandishi
written representations	uwakilishi wa maandishi
written symbols	ishara za maandishi
yard (yd)	yadi
year	mwaka
zero	sufuri
zero as the identify element in addition	sufuri kama kipengele cha utambulisho katika kujumlisha
zero property of addition	sifa ya sufuri ya kujumlisha
zero property of multiplication	sifa ya sufuri ya kuzidisha