

# Glossary

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## Elementary School Level

# Mathematics Glossary

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## English | Fulani

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

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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	FULANI
about	badoo
above	keeroo
absolute value	bote fuu
accurate	fottida
accurately label work	buugal tinndinaangal foti
act it out	gollu
acute angle	sobbundu bidfiindu
acute triangle	sobbundu yaajundu
add	hawta
addend	besdaari
addition	hawtuki
addition fact	hawtuki tabbutuki
addition sentence	hawtuki nder jumla
addition sign	alaama hawtuki
additive inverses	kawtol kippol
after	baawo
afternoon	ñalawma
algebra	aljabar
algebraic expression	jahargal aljabar
algebraic patterns	noone aljabar
algebraic relationship	nanndalla aljabar
algebraically	ko aljabarna
algorithm	algoritm
alike	nanndu
all	fuu
all together	fuu hawtii
almost	badake
amount	duudal

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
analog clock	njamndi hiindi
analyze	laabina
angle	sobbundu
angles, adjacent	cobbuli, kuccutudi
answer	nootogol
ante meridian (a.m.)	subaka
apex	dow
application	huuwuki
apply	naftira
approach	tokkirol
appropriate mathematical language	wolde limle haandunde
appropriate mathematical language organize work	taskana kuugal wolde limle haandunde
arc	wuurande
area	njayri
argument	yeddootiro
argument / conjecture / counter example	Yeddootiro / tammunde / yeru yeddo
arithmetic (numeric) expression	kollol limle (lima)
arithmetic expression	kollol limle
arithmetic fact	goonga nder limle
arrange	jeerindira
array	jeerindiro
as long as	juutira
associative property	nanndalla
attribute	wooda
autumn (fall)	ndunngu
average	hakkunde
axis (axes)	dadol (dadi)

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
bar graph	diidol lekkon
base	tekkere
base of a 3-dimensional figure	tekkere huunde cobbuli-3
base of a parallelogram	tekkere lelo cobbuli nayijji
base of a polygon	tekkere duudi cobbuliire
base of a polyhedron	tekkere duudi cobbuliire heelaande
base of a rectangle	tekkere soorooruha
base of a triangle	tekkere kaataneha
base ten number system	datal limngal tekkere sappo
before	ndenno
below	les
beside between on	haade hakkunde dow
big/bigger/biggest	mawdo/burdo mawnude/buri mawnude
bisect	fota
calculate	lima
calendar	limlebbiwol
capacity	keewal
cardinal numbers (1-10)	limngal limde (1-10)
cent	teemerre
centimeter (cm)	sentimeeta (cm)
chance	teema
charts	diidi
circle	tarde
circle graph	diidol tardewol
circumference	kowaangol
clarify	labina
classify triangles	hennda kaataneeye
closed figure	suura mabbiika

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
coin	yamnde
collaborate	hawta
collection	moobuki
common	nannda
common denominator	nanndungal gootal
common multiple	cowirgal gootal
commutative property of addition	sumpootiral hawtuki
commutative property of multiplication	sumpootiral sowuki
compare	nanndindira
compare numbers	nanndindira limde
compatible numbers	limde jaadooje
compensation	yobuki
complementary angles	cobbuli kuccindirdi
compose a number	aaw limngal
compose shapes	aaw suuraaji
composite number	limngal jeerngal
concentric circles	tarde tekkude
conclusion	mabbirka
concrete representations	kollol jamol
cone	konuwal
congruent	jaadol
congruent triangles	kaataneje jaadooje
conjecture	fotootiro
connect	jokka
consecutive	tokkootira
consecutive angles	cobbuli tokkootirdi
constant	joodoo
construct	maha

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
contrast	feerootinira
conversion fact	goonga wayluki
convert	wayla
coordinate	jokkindira
coordinate grid	jokkindira jokkere
coordinate plane	jokkindira baaliidum
corner	celol
corresponding angles	cobbuli nannduɗi
corresponding sides	buttuli nannduɗi
count back	lima baawo
count backwards	limira baawo
count on	lima
counterexample	yeru yedduki
counting numbers	limuki limɗe
cube	kiwal
cubic centimeter (cm <sup>3</sup> )	semtimeeta kiwal (cm <sup>3</sup> )
cubic unit	poondirgel kiwal
cup (c)	nyedirde (c)
currency symbols	alaamaaji cede
customary measurement system	ɗatepoondol ɗe ndenno
data	kebal
data frequency table	alluhal ɗuudal kebal
day	ñalawma
daylight	ñalawma
decagon	sappoore
decimal fraction	tobbere feccere
decimal number	limngal tobbere
decimal point	tobbere

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
decimeter	desimeetar
decompose a number	bortu limngal
decompose shapes	bortu suuraaji
decrease	ustu
decreasing sequences	ustude yaho
degree	tilas
degree measure of an angle	poondol tilas sobbundu
denominator	leswal
density	ɗuudal
design	wanngina
diameter	peccungol
differences	peerootiral
digit	suudu
digital clock	njamndi moyyoori
digits	cuudi
dime	yamnde
dimension	fotuki
discuss	yewta
distributive property	woodana
divide	seernda
dividend	denndiigu
divisibility test	foondo cenndiigu
divisible	seerndoto
divisible by	seerndirto
division	seerndude
divisor	seernondiroowo
dodecahedron	sappo e ɗidiha
dollar (\$)	dolaar (\$)



## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
doubles minus one	cowe didi itta go'o
doubles plus one	cowe didi hawta go'o
doubling	sowuki didi
draw a graph	diid diidol
draw a picture	diida footowol
drawings	diidi
edge	keerol
eight	jeetaati
elapsed time	wakkati yabbiidum
ellipse	ɲappere
endpoint	darorde
equivalent equations	potudude
equal (=)	woni (=)
equal to (=)	woni bano (=)
equation	fotuki
equidistant marks	kollooje foto wodɗuki
equilateral polygon	ɗuuda cobbuli pottududi
equilateral triangle	kaataneha pottuduka
equivalent	foti
equivalent decimals	tobbe pottudude
equivalent fractions	cennde pottudude
equivalent numerical expressions	limde pottudude
equivalent ratios	yaadooji pottududi
estimate	teyol
estimation	tayuki
estimation strategies	tayirde
evaluate	raarta
even number	limngal koppiingal

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
evening	alaasara
event	fe'aano
examine	maandoo
example	yeru
expanded form	jaajinaadum
experimental results	batte poondol
explain	laabina
explain mathematical relationships	laabina sumpooji limle
explore	tefa
explore mathematical relationships	tefa sumpooji limle
exponential notations	bannginooje
extend a pattern	forta mbaadi
extend models	forta suuraaji
extended fact	goonga portaaka
face	yeeso
fact	goonga
fact family (related facts)	goonga besngu (goonga nannduka)
factor (noun)	dokkal
factor (verb)	rokkude
factorial	dokkalku
fair share	cenndiigu laabngu
fewer	sedda
fewer than	hewtaayi
fifths	njoyobe
first	arannde
five	joy
flip (reflection)	wurna (raartaaki)
foot (ft.)	yaabannde

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
formula	laawol
formulate conclusions from graphs	wanngina ko tabbiti gila diidi
formulate predictions from graphs	wanngina ko tammetee gila diidi
four	nayi
four-digit number	limngal cuudi nayiwal
fourth	noyobere
fraction	feccere
frequency table	alluhal duudal
front-end estimation	fonduki heenyira yeeso
gallon (gal)	faandu (gal)
generate solutions	wurtina kuugal
geometric fact	goonga joomeetiri
geometric figure	limngal joometiri
geometric pattern	mbaadi joomeetiri
geometric solid	tamre joomeetiri
geometry	joomeetiri
gram (g)	giramre (g)
graphical representations	diidi kollooji
graphs	diidi
greater	huri
greater than (>)	huri (>)
greatest	huri foy
greatest common divisor (GCD)	cenndal burdungal foy (GCD)
greatest common factor (GCF)	limngal burdungal dokkwal
grid	jokkere
group how many	kasa noye e noye
guess	seka
half hour	senndere awa

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
halves	cennde
halving	sennduki
heavier	ɓuri teddude
height	darnde
height of a 3-dimensional figure	darnde suura koyde-3
height of a parallelogram	darnde cobbuli nayiji
height of a rectangle	darnde soorooruha
height of a triangle	darnde kaatane
heptagon	cobbuli joweediha
hexagon	cobbuli joweego'oha
higher	ɓuri toowde
horizontal	baaliingal
hour	wahtu
hour hand	junngel wahtu
hundred chart	diidol teemerre
hundred thousands	ujuneeje teemerre
hundred thousand million	miliyonre ujuneere teemerre
hundreds	teemedɗe
hundreds places	bigeenje teemedɗe
hundredths	teemehon
hypotenuse	ñaamru
icosahedron	noogasreha
identify	heɓta
identify the problem	heɓta fergere nden
element for addition	huunde hawtuki
Identify element for multiplication	heɓta huunde soweteende
impossible outcome	bannginol wadataakowol
improper fraction	feccere keeriinde

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
inch (in)	insiyal (in)
increase	besdoo
increasing sequences	besdaaki jahaaje
inequality	peerootiral
input values	bote nastude
Inscribed polygon	duufa cobbuli binndaaka
inside	nder
integer	hewnde
interior angles	cobbuli nderji
interpret	firta
interpret models	firta suuraaji
intersect	fota
intersecting lines	diidi potooji
invalid approach	datal yottataakowal
inverse operations	jahargal guuraangal
inverse property	njawdi nguuraandi
investigate	lincita
irrational numbers	limde guuriide
irregular polygon	cobbuli duufdi peerootirdi
irregular shape	suura peerootirka
irrelevant information	habaru wunnyiniingu
isosceles triangle	kaataneha woodididijji
justify	tabbitin
key sequence	hoore yaho
key to a graph	tinndinoore diidol
kilogram (kg)	kilogiram (kg)
kilometer (km)	kilomiitar (km)
kite	ciilal

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
label work	kuugal kollaangal
language of logic (and, or, not)	wolde maando (e, malla, naa)
large / larger / largest	yaaja/burwdo yaajde/buri yaajde
last	sakitoo
least common denominator (LCD)	limngal burdungal famduki (LCD)
least common multiple (LCM)	limngal sowuki burdungal famduki
leg of a right triangle	koyngal kaataneha nyaamal
length	juutal
less	fotaayi
less than (<)	fotaayi
lighter	buri koyol
like (common denominator)	bano limngal (burndungal)
likely	teema
line	diggol
line graph	diggol diidol
line of symmetry	diggol nanndalla
line plot	tigguki diidol
line segment	yebre diggol
line symmetry	diggol nanndalla
listen	fekkinoo
liter (L)	liitaar (L)
logical reasoning	numo hewtungo
long / longer / longest	juutdo/burdo juutuki/buri juutuki
longer	burdo juutuki
longer than	burdo juutuki
look for a pattern	tefa mbaadi
lower	lestina
lowest terms (simplest form)	burdi lestuki (mbaadi hoyundi)

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
make a chart	diida diidol
make a diagram	winnda sura
make an organized chart	winnda suura moobaaka
make an organized list	winnda inde moobaade
make conjectures	hawta numooji
make observations	haynoo fiiji
map legend	diidol lesdi
map scale	poondol diidol lesdi
mass	teddeenga
match	hawtindita
mathematical statements	haalaaji limle
mathematics	limle
mean	hakkunde
measure	foonda
measurement	poondol
median	caka
mental math	limle ngaandi
meter (m)	miitaare (m)
metric system of measurement	poondirgol miitaaje
metric units of measure	foondira cuudi miitaare
mile	maayil
milliliter (ml)	mililiitaare (ml)
millimeter (mm)	milimeetaare (mm)
millions	miliyongaaji
minuend	to ittete
minus	itta
minus sign	alaama ittol
minute	mintaare

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
minute hand	junngel mintaare
mixed number	limngal kawtiingal
mode	darorde
money	ceede
months of the year	lebbi hitaande
more	besdaari
more than (>)	burii (>)
more / most	besda/burii
morning	subaka
multiple	sowirgal
multiple representations	kollaade cowe
multiplicand	sowirgal
multiplication	sowuki
multiplicative inverses	cowi kippi
multiplier	sowirgal
multiply	sowa
negative number	limngal yidaaka
negative rational numbers	limde hakkillo yidaakaje
next	yeeso
nickel	yamnde
night	jamma
nine	joweenayi
nonagon	joweenayiir
nonstandard measure	foondol ngol fotidaayi
nonstandard representations	kollooji di potidaayi
nonstandard units	cuudi di potidaayi
noon	ñalawma
not equal to (!)	fotaayi e (!)



## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
not equal ( $\neq$ )	fotaayi ( $\neq$ )
number	limngal
number in words	limngal nder wolde
number line	diggol limngal
number model	mbaadi limngal
number sentence	jumlawol limngal
number system	datal limngal
numeral	limngalku
numeration	limuki
numerator	limoowal
numeric expression	bayaanu limngal
numeric patterns	baale limngal
numerical problems	perge limngal
numerically	limuki
objects	kuuje
objects created using technology	kuuje mbaawirka waddi
obtuse angle	sobbundu weediindu
obtuse triangle	kaataneha mbeediika
octagon	joweetatiire
octagon parallel lines	diggi joweetatiire leltiidi
odd number	limngal jooral
one	go'to
one-digit number	limngal suudu go'o
ones	go'ooji
one's place	wigeere go'o
open figure	huunde yaajunde
open sentence	jumlawol mabbitiingol
operation	kuugal

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
operational method / operation	datal kuugal/kuugal
oral representations	waddira wolde
order	ooda
order of operations	kuude godde
ordered number pair	yahoo limngal oodal
ordinal number	limngal tokkootirngal
organize	siryoo
organize work	kuugal siryangal
organize chart	diido siryaango
organize list	limta siryoo
origin	asungol
ounce (oz.)	awun (oz.)
over	dow
pan balance	ello taasawo
parabola	paraboolal
parallel lines	diggi leliidi
parallelogram	fofnayiwal
part	fecco
part-to-part ratio	yaado fecco e fecco
part-to-whole ratio	yaado fecco e hewnde
pattern	mbaadi
penny	njula
pentagon	jowiha
percent	nder teemerre
perimeter	njaayri
perpendicular lines	diggi baaliifi
personal references	dow neddo
per-unit rate	dow limngal suudu

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
physical models	baale tagdi
pi	pi
pictograph	footowal
pictorial representations	hollirki footooji
pint (pt)	poondirgal
place value	maana tobbere
plane	laabka
plane figure	sifa laabka
plot	poondol
plus	hawta
point	tobbere
poll	hoyyudu
polygon	duudi cobbuliire
polyhedron	duudi cobbuliire
positive number	limngal jabaangal
positive power of 10	jabaangal yeenjungal 10
positive rational numbers	limde anndaade jabaade
possible outcomes	ko tammetee
post meridian (p.m.)	nyalawma
pound (lb.)	pam (lb.)
power	sembe
power of 10	yeerja 10
predict	tammoo
prediction	tammuye
prime factorization	sennduki keyude
prime number	limngal keyungal
prism	pirism
probability	teema

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
problem solving strategies	date bo'inol fergere
process of elimination	datal wirguki
product	kebaangal cowol
proper fraction	peccol joodoowol
property	goodanal
protractor	pootirakkal
pyramid	daalaare
Pythagorean Theorem	anndal paatagooran
quadrangle	cobbinayiha
quadrant	nayiire
quadrilateral	buttuli-nayiha
quart (qt)	nayi (qt)
quarter	sappo e jowi
questions	namde
quotient	wattam
radius	njuutirdi
random number	limngal subaangal
randomly	subol
range	yaho
rate	kiima
ratio	yaado
rational number	limngal kewtungal
rationale	kewtum
ray	njayawri
real number	limngal goongawal
real world math	limle duuniyaaru
real world situation	ko duuniyaaru wontiri
reasonable estimates	foondo jabaango

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
reasonableness	jabeeki
reasonableness of a solution	jabuki bo'inol
recognize	hebta
rectangle	soorooruha
reference frame	suura nafooha
regroup (regrouping)	hawndira (hawndirki)
regular polygon	duudi cobbuliire anndaande
regular polyhedron	duudi cobbuliire anndaande
related facts	haalaaji nanndudfi
relation symbol	alaama nanndudum
relevant information	habaru nanndudum
remainder	horaano
repeated addition	hawti-hawtina
repeated subtraction	itti-ittina
repeating decimal	tobbi-tobbina
rhombus	nayiha
right angle	sobbundu nyaama
rotation	yilaaki
round a number	hebbitina limngal
rounding	hebbitinki
rule	diida
ruler	diidirgal
same	nanndi
sample space	yeru njaayri
scale drawing	diidirki poondirgal
scale on a graph	poondirgal dow diidol
scale to measure mass	poondirgal teddeenga
scalene triangle	kaataneha cenndirka

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
scientific notation	inde kiimiiyaaku
seasons in relation to the months	sarde e lebbi
second	dɗɗabre
sector	yebre
semicircle	tarde heewidaayi
set of data	keɓal
set of objects	kuuje
seven	joweedifi
shape	suura
share	yeeda
shorter	famɗana
shorter than	famɗana
show	holla
side	wuttudu
similar figures	suuraaji nanndudi
similar triangles	kaataneehaaji nanndudi
similar triangles square	sukoya kaataneeki nanndudi
similarities	nanndudi
simplest form	ɓuri hoyuki fuu
simplify an expression	hoytina tinndinol
simplify fractions	hoytina pecce
single event	huunde wo'oyre
single-event experiment	poondol huunde wo'oyre
six	joweego'o
sixth	njoweego'on
size	mawngu
skip count	lima e diwa
slide (translation)	sedɗa (pirtol)

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
small / smaller / smallest	sedda
solid figure	tamre
solution	hebuki
solutions	kebe
solve	huuwa
solve a simpler problem	huuwa pergal koyngal
some	godde
sort	hennda
special case	huunde himminiinde
special case (s)	kuuje kimminiide
speed	jaawal
sphere	nanndibolre
spring	setto
square	sukoya
square array	nyargu sukoya
square number	limngal sukoyawal
square of a number	sukoyawal limngal
square root of a number	sukoyawal fudfoode ngal limngal
square unit	sukoyawal suudu
standard measure	poondirgal jabaangal
standard notation	limirgal jabaangal
standard representation	kolliral jabaangal
standard representations	kolle jabaade
standard units	cuudi jabaadi
stem-and-leaf plot	darnol banndu e haako
step graph	diidol yaabannde
straight angle	sobbundu fortiindu
strategies	dabareeji

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
substitute	dow darnde
substitution	darninki
subtract	itta
subtraction	ittuki
subtraction fact	goonga ittuki
subtraction sentence	jumlawol ittuki
subtraction sign	alaama ittuki
subtrahend	ittaangal
sum	kawtal
summer	ñaamnde
supplementary angles	cobbuli keddudi
survey	sewtoo
symbols	alaamaaji
symbols in verbal form	alaamaaji nder wolde
symbols in written form	alaamaaji binndaadi
table	teeburuhi
take away	itta
tall /taller / tallest	juutdo/burdo juutde/buri juutde
tallies	yahida
tally mark	alaama jaadol
ten	sappo
ten thousands	ujuneeje sappo
tens	sappooji
tens place	njaayri sappo
tenth	sappoyel
term	innde
terminating decimal	tobbere daraaki
tessellation	jeerindirki



## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
theorem	teworem
third	tatabre
thought process	datal numo
thousands	ujuneeje
thousandth	ujuneeron
three	tati
three-digit number	limngal cuudi tatiwal
three-dimensional figure	suura geese tatiha
tiling	irtuki
time	wakkatiire
to challenge thinking	finndina numo
to clarify thinking	waytina numo
to elicit thinking	walla numo
to extend thinking	fooda numo
together	wonnda
ton	tonre
translate	firta
trapezoid	tiraapajoyya
trial and error	ladol e juumki
triangle	kaataneha
true / false	goonga/fewre
turn (rotation)	waylitoo (yiiloo)
two	didi
two-digit number	limngal cuudi didiwal
two-dimensional figure	suura geese didiha
types of representations	noone holluki
under	les
understand	hebta

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
unit	suudu
unit fraction	suudu fecco
unlike denominators	lesje lurrude
unlikely	nanndaayi wadoto
use manipulatives	naftira jogotoode
valid approach	laawol jahoowol
value	bote
variable	fergere
Venn diagram	diidol ben
verbal expression	wi'a
verbal form of reasoning	numa wolwa
verbal language	wolde
verbal process	laawol wolde
verbal symbols	alaamaaji wolde
verify claims of others	tabbitina bi'ol wobbe
verify results	tabbina wattam
vertex	towa
vertical	waaloo
vertical angles	cobbuli baaliidi
volume	reedu
week	asaweere
whole	fuu
whole number	limngal kewngal
whole numbers	limde keewde
whole unit	suudu heewndu
width	jaajal
winter	ndunngu
work backwards	yaatira baawo

## MATHEMATICS - GRADE 3, 4, 5

ENGLISH	FULANI
write an equation	winndu nanndudi
written form of reasoning	numo winndaango
written language	wolde winndaande
written representations	binndi kollaadi
written symbols	alaamaaji binndaadi
yard (yd)	yaadiwol (yd)
year	hitaande
zero	hownde
zero as the identify element in addition	holluki hownde heftetee to hawtuki
zero property of addition	hownde nder hawtuki
zero property of multiplication	hownde nder sowuki