

## Language of Mathematics

### *English*

Bolt, B., Hobbs, D.: *A Mathematical Dictionary for Schools*. Cambridge University Press, 1998.

James, C., James, T.: *Mathematics Dictionary*. Litton Educational Publishing, New York 1968.

Nelson, D.: *Dictionary of Mathematics*. Penguin Books Ltd., London 1998.

### *Mathematical concepts*

#### *1. Numbers and arithmetic*

Add	Adder
Multiply	Multipliser
Subtract	Subtraher
Divide	Divider
Power	Potens
Square	Kvadrer
Bracket	Parentes
Sign	Tegn
Fraction	Brøk
Numerator	Teller
Denominator	Nevner
Equal	Lik
Equivalent	Ekvivalent
Cancel	Forkorte
Common denominator	Fellesnevner

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Counting number	Naturlig tall
Zero	Null
Integers	Heltall
Set of rational numbers	Mengden av rasjonale tall
Set of real numbers	Mengden av reelle tall
Prime number	Primtall
Equation	Likning
Solution	Løsning
Graph	Graf
Dependent variable	Avhengig variabel
Independent variable	Uavhengig variabel
Origin	Origo
Straight line	Rett linje
Coordinate	Koordinat
Steepness or gradient	stigningstall
Sketching a graph	Skissere en graf
Perpendicular	Vinkelrett

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### *2. Functions*

Graph	Graf
Dependent variable	Avhengig variabel
Independent variable	Uavhengig variabel
Origin	Origo
Straight line	Rett linje
Coordinate	Koordinat
Steepness or gradient	Stigningstall
Sketching a graph	Skissere en graf
Perpendicular	Vinkelrett
Quadratic equation	Andregradslikning / kvadratisk likning
Parabola	Parabel
Root	Rot
U-shape	U-form
Upside-down U	Omvendt U
Direct proportion	Proporsjonalitet
Partial direct proportion	Rette linjer som ikke går gjennom origo
Inverse proportion	Omvendt proporsjonalitet
Domain	Definisjonsmengde
Range	Verdimengde
Inverse function	Invers funksjon
Exponential	Ekspontiell

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### *3. Geometry*

Area	Areal
Rectangle	Rektangel
Triangle	Trekant
Circle	Sirkel
Angle	Vinkel
Right-angled	Rettvinkla
Opposite	Omvendt
Adjacent	Tilstøtende / hosliggende
Hypotenuse	Hypotenus
The two smaller sides of a right-angled triangle	Kateter
Degree	Grad
Length	Lengde
Square	Kvadrat
Width	Bredde
Perimeter	Omkrets / perimeter
Diagonal	Diagonal
Corner	Hjørne
Base	Grunnlinje
Height	Høyde
Isosceles	Likebeina
Equilateral	Likesida
Similar	Likeforma

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Congruent	Kongruent
Parallelogram	Parallelogram
Rhombus	Rombe
Trapezium	Trapes
Circumference	Omkrets
Radius / Diameter	Radius / Diameter
Quadrilateral	Firkant
Pythagoras' Theorem	Pythagoras' læresetning
Centre	Sentrum
Median	Median
Box	Rett prisme
Can, cylinder	Sylinder
Cone	Kjedge
Sphere	Kule
Obtuse angle	Stump vinkel
Acute angle	Spiss vinkel

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### *4. Probability*

Probability	Sannsynlighet
Tree diagram	Valgtre
Multiplication rule	Multiplikasjonsregelen
Possible outcome	Mulige utfall
Sample space	Utfallsrom
Empty set	Den tomme mengde
Event	Hendelse
Be mutually exclusive	Være innbyrdes uavhengige
Forming union	Utgjør unionen
Complement	Komplement
Intersection	Snitt
Permutation	Permutasjon
Factorial notation	Fakultet
Combination	Kombinasjon
All possible outcomes are equally likely	Alle mulige utfall er like sannsynlige (uniform modell)
Favourable	Gunstig
Special addition rule	Den spesielle addisjonsregelen
Conditional probability	Betinget sannsynlighet
Independent	Uavhengig
Binomial distribution	Binomisk fordeling
Random sample	Tilfeldig utvalg
Particular arrangement/ order of object	Ordnet utvalg

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### *5. Statistics*

Frequency	Frekvens
Relative frequency	Relativ frekvens
Percentage	Prosentandel
Cumulative frequency	Kumulativ frekvens
Grouped frequency	Gruppert frekvens (klasser)
Sample	Utvalg
Mean	Gjennomsnitt
Median	Median
Mode	Typetall
Bar-chart	Stolpediagram
Histogram	Histogram
Ogive	Frekvensfordelingskurve
Standard deviation	Standardavvik
First quartile	Første kvartil
Second quartile (median)	Andre kvartil (median)
Third quartile	Tredje kvartil
Example: 50th percentile	Eksempel: 50. prosentil
Minimum	Minimum
Maximum	Maksimum
Range	Variasjonsbredde