

Glossary

Intermediate School Level

Mathematics Glossary

English / Chinese Traditional



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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| GRADES 6,7,8 COMPILED LIST | 6、7 和 8 年級數學用語彙編 (Chinese) |
|--|-----------------------------------|
| absolute value | 絕對值 |
| accurately label work | 準確標示作業 |
| adapt | 適應；改寫 |
| additive inverse | 加法反元素 |
| adjacent | 鄰接的；鄰近的 |
| adjacent side of a triangle | 三角形之鄰邊 |
| algebra | 代數 |
| algebraic equation | 代數方程式 |
| algebraic expression | 代數表達式 |
| algebraic inequalities | 代數不等式 |
| algebraic pattern | 代數模式 |
| algebraic solution | 代數解 |
| algebraically | 用代數方法；在代數上 |
| alternate exterior angles | 外錯角 |
| alternate interior angles | 內錯角 |
| altitude | 高 |
| analyze | 分解；分析 |
| angle bisector | 角等分線；角平分線 |
| angle pairs | 相關的一對角 |
| apply | 應用 |
| apply a variety of strategies | 應用各種方法 |
| appropriate mathematical terms | 適當的數學術語 |
| approximation | 近似（值） |
| arc | 弧 |
| area | 面積 |
| area of a circle | 圓的面積 |
| argument | 自變量；論證；輻角 |
| arithmetically | 用算術方法；在算術上 |
| associative property of addition | 加法結合性 |
| associative property of multiplication | 乘法結合性 |
| base (of percent) | 基數；底數（百分比的） |
| base of a 2-dimensional shape | 二維形狀的底邊 |
| base of a 3-dimensional shape | 三維形狀的底邊 |
| base ten number system | 基數十進制系統 |
| binomial | 二項式 |
| bisector | 等分線；平分線 |
| calculate | 計算 |

| | |
|--|------------|
| calculate distance | 計算距離 |
| calculate unit price | 計算單位價格 |
| calculate volume | 計算容積/體積 |
| Celsius | 攝氏 |
| central angle | 圓心角 |
| chord | 弦 |
| circle | 圓 |
| circle graph | 圓形圖 |
| circumference | 周長；圓周 |
| clarifying questions | 澄清式問題 |
| coefficient | 係數 |
| coherent | 一致的；連貫的 |
| collaboration | 合作；協作 |
| combine like terms | 合併同類項 |
| commission | 委任；傭金 |
| commutative property of addition | 加法可交換性 |
| commutative property of multiplication | 乘法可交換性 |
| compare strategies | 比較方法 |
| compare unit prices | 比較單位價格 |
| compass | 圓規 |
| complementary angles | 餘角 |
| compound events | 複合事件 |
| comprehend | 理解 |
| conclusion | 結論 |
| conduct | 進行；處理 |
| congruent | 相等的；全等的 |
| conjecture (noun) | 猜想；推測（名詞） |
| conjecture (verb) | 猜想；推測（動詞） |
| connections | 連接關係；關聯 |
| consecutive integers | 連續整數 |
| consolidate | 合併 |
| constraints | 約束（條件） |
| construction | 作圖；構造 |
| convert money | 換算/兌換貨幣 |
| convert capacity within a given system | 在給定系統中轉換容積 |
| convert mass within a given system | 在給定系統中轉換體積 |

| | |
|--------------------------------------|---------------|
| convert volume within a given system | 在給定系統中轉換容積/體積 |
| convert within a given system | 在給定系統中進行轉換 |
| coordinate geometry | 坐標幾何 |
| coordinate plane | 坐標平面 |
| corresponding angles | 對應角 |
| corresponding sides | 對應邊 |
| counterexample | 反例；反證 |
| counting (natural) numbers | 自然數；正整數 |
| counting numbers | 自然數；正整數 |
| cup | 杯 |
| customary units of capacity | 習慣容量單位元 |
| customary units of mass | 習慣體積單位 |
| data | 數據 |
| decode | 解碼；解釋 |
| defend | 辯護 |
| degree of a polynomial | 多項式的次數 |
| density | 密度；稠密度 |
| dependent events | 相依/相關事件 |
| describe | 描述；描寫 |
| develop formulas | 推導分式 |
| diameter | 直徑 |
| differentiate | 求.....的微分；微分 |
| dilate | 擴張；擴大 |
| dilation | 擴張；擴大（名詞） |
| dimensions | 維（數）；度（數）；次；元 |
| discuss | 討論；論述 |
| distance | 距離 |
| distinguish | 區分；分別 |
| distributive property | 分配法 |
| domain | 域；定義域 |
| double bar graph | 雙條形圖 |
| double line graphs | 雙折線圖 |
| draw a graph | 畫一個圖 |
| draw a picture | 畫一幅畫 |
| draw conclusions | 得出結論 |
| equation | 方程（式） |
| equation of a line | 線方程 |
| equidistant | 等距的 |

| | |
|--|--------------------|
| equivalent customary units of capacity | 等值/等價習慣容量單位元 |
| equivalent fractions | 等值分數 |
| equivalent numerical expressions | 等值數值表示式 |
| equivalent ratios | 等值比 |
| estimate | 估量；估計值；估計 |
| area | 面積 |
| circumference | 周長；圓周 |
| volume | 容積；體積 |
| evaluate | 估計；求.....值 |
| evaluate conjectures | 計算猜想值 |
| evaluate efficiency | 估算效率 |
| exchange rate table | 匯率表 |
| expenses | 支出 |
| explain | 解釋 |
| explore | 探求 |
| exponent | 指數 |
| exponential form | 指數式 |
| extend | 延伸，延展 |
| exterior angle | 外角 |
| extremes (of a proportion) | 外項（比例的） |
| faces and bases | 面和底 |
| of cones | 錐體的 |
| of cylinders | 圓柱體的 |
| of prisms | 棱柱體的 |
| of pyramids | 棱錐體的；角錐體的 |
| factor | 因數；因式；因式分解 |
| Fahrenheit | 華氏 |
| favorable outcomes | 所要的結果 |
| fixed distance | 固定距離 |
| formally | 正式地；用正規方式 |
| formula | 分式 |
| formulate | 將.....公式化；用公式表示 |
| formulate mathematical questions | 用公式表示數學問題；將數學問題公式化 |
| fraction | 分數；分式 |
| frequency | 頻率；頻數 |
| frequency table | 頻率表 |
| function | 函數 |
| function notation | 函數符號 |

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|-------------------------------------|----------------|
| function rule | 函數規則 |
| fundamental counting principle | 基本乘法原理 |
| gallon | 加侖 |
| generalizations | 普遍化；推廣 |
| geometric shape | 幾何形狀 |
| geometry | 幾何 |
| graphically | 在圖形上；用圖形 |
| gratuity | 小費；補助 |
| greatest common factor | 最大公因式（數） |
| height | 高 |
| histogram | 直柱圖 |
| hypotenuse | 斜邊 |
| ideas | 思想；概念 |
| identity | 恒等式；恒等；等（式）；同一 |
| identity element | 單位（素）；單位元；麼元 |
| identity property of addition | 加法恒等性 |
| identity property of multiplication | 乘法恒等性 |
| image | 影像 |
| impossible outcomes | 不可能結果 |
| income | 所得；收益；收入 |
| indirect | 間接 |
| inductive reasoning | 歸納推理 |
| inequality | 不等式 |
| informally | 非正式地 |
| input values | 輸入值 |
| integer | 整數 |
| integer coefficients | 整數係數 |
| integral | 整數的；積分的 |
| integral exponents | 整指數 |
| interconnect | 互聯；互相連接 |
| interest | 利息 |
| interest rates | 利率 |
| interior angle | 內角 |
| interpret | 解釋；理解 |
| interpret graphs | 對圖作解釋 |
| invalid approach | 無效方法；無效近似值 |
| inverse element | 反（函數）的元素 |
| inverse operation | 逆運算 |
| investigate | 調查；審查 |
| investigate conjectures | 對猜想作調查 |

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|-------------------------------------|---------------|
| irrational numbers | 無理數 |
| irregular polygon | 不規則多邊形 |
| irrelevant information | 無關信息 |
| justify | 證明 |
| language of logic (and, or, not) | 邏輯語言（和，或，不） |
| law of exponents for division | 除法指數定律 |
| law of exponents for multiplication | 乘法指數定律 |
| laws of exponents | 指數定律 |
| legs of a right triangle | 直角三角形的（兩條）直角邊 |
| length | 長度 |
| levels of precision | 精確度 |
| like (common) denominators | 相同（公）分母 |
| like terms | 同類項 |
| line | 線；軸 |
| line graph | 折線圖 |
| line symmetry | 軸對稱；線對稱 |
| linear equation | 一次方程；線性方程 |
| linear inequalities | 一次不等式；線性不等式 |
| linear relationship | 線性關係式 |
| liter | 公升 |
| logic | 邏輯 |
| logical argument | 邏輯論證 |
| logical reasoning | 邏輯推理 |
| lowest terms | 最簡式 |
| magnitude | 量；數量；長度；大小 |
| make conjectures | 作猜想；進行推測 |
| manipulative(s) | 操作材料；動手材料 |
| map scale | 地圖比例尺 |
| mathematical argument | 數學自變量；數學論證 |
| mathematical ideas | 數學概念 |
| mathematical language | 數學語言 |
| mathematical phenomena | 數學現象 |
| mathematical relationships | 數學表達式 |
| mathematical statement | 數學陳述；數學語句 |
| mean | 平均；平均數；中數 |
| means (of a proportion) | 內項（比例的） |
| measure capacity | 測量容積 |
| measures of central tendency | 集中趨勢的測量 |
| median | 中位數；中線 |
| methods of proof | 證明法 |

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|-------------------------------------|-----------|
| metric system | 公制 |
| metric units of capacity | 公制容量單位元 |
| metric units of mass | 公制體積單位 |
| milliliter | 毫升 |
| misleading | 誤讀的；令人誤解的 |
| mixed number | 混合數 |
| mode | 眾數 |
| model (noun) | 例；模型（名詞） |
| model problems | 例題 |
| model situations | 模型情境 |
| model using manipulatives | 使用操作材料的模型 |
| model(s) | 例；模型 |
| models | 例；模型（複數） |
| monitor | 監控；監測 |
| monomial | 單項式 |
| multiple | 倍數；多重 |
| multiple representations | 多重表述式 |
| multiplicative inverse (reciprocal) | 乘法反元素（倒數） |
| multiply (multiplication) | 乘以；乘法（乘法） |
| natural numbers | 自然數 |
| negative | 負的 |
| nonadjacent side of a triangle | 三角形之不相鄰邊 |
| nonlinear equation | 非線性方程 |
| nonlinear relationship | 非線性關係式 |
| non-perfect squares | 不完全平方 |
| non-repeating decimal | 非循環小數 |
| nonstandard representations | 非標準表達式 |
| non-terminating decimal | 非盡小數；無窮小數 |
| not preserved | 不保持的 |
| number line | 數軸 |
| number system | 數系；記數制 |
| numeric (arithmetic) expression | 數值（算術）表示式 |
| numerical problem | 數值題 |
| numerically | 用數值，在數值上 |
| observe patterns | 觀測圖形/模式 |
| operation | 運算 |
| operations with polynomials | 多項式運算 |
| order (verb) | 定序（動詞） |
| order of operations | 運算次序 |
| ordered pair | 有序對；有序偶 |

| | |
|---------------------------------------|--------------|
| organize work | 排列次序 |
| organized chart | 有序圖表 |
| organized list | 有序列表 |
| parallel lines | 平行線 |
| percent | 百分率；百分數；百分比 |
| percent decrease | 百分率下降 |
| percent increase | 百分率增長 |
| percent of quantity | 數量百分比 |
| perfect square | 完全平方 |
| perimeter | 周長 |
| perpendicular bisector | 垂直平分線 |
| personal references for capacity | 容積個別參考/參照/基準 |
| personal references for units of mass | 體積單位個別基準 |
| physical phenomena | 物理現象 |
| pi (π) | 圓周率 |
| pint | 品特 (1/8 加侖) |
| plot | 畫；作畫；繪圖 |
| point | 點 |
| polygon | 多邊形 |
| polynomial | 多項式 |
| population | 總體；人口 |
| positive | 正的 |
| possible outcomes | 可能結果 |
| power | 冪；乘方 |
| predict | 預言；預料 |
| pre-image | 原像；先備影像 |
| preserved | 保留的 |
| prime factorization | 質因數分解 |
| probability | 概率；幾率；或然率 |
| procedures | 程式；步驟 |
| process of elimination | 消元過程 |
| profit | 利潤 |
| properties of real numbers | 實數性質 |
| proportion | 比例；比例式 |
| proportional reasoning | 比例推理 |
| proportionality | 比例 (性) |
| protractor | 量角器；分度規 |
| Pythagorean theorem | 畢氏定理 |
| quadrant | 象限；四分之一圓周 |

| | |
|------------------------------|-------------------|
| quadratic equation | 二次方程（式） |
| quadratics | 二次方程式 |
| quadrilateral | 四邊形 |
| quart | 誇脫；四分之一加侖 |
| radius | 半徑（單數） |
| range | 區域；範圍；值域；極差；量程；排列 |
| rate | 速率；速度 |
| rate | 速率；速度 |
| rate of change | 變化率 |
| rate of interest | 利（息）率 |
| ratio | 比；比率 |
| rational number | 有理數 |
| rationale | 邏輯依據；原理闡述 |
| real numbers | 實數 |
| reasonableness of a solution | 解的合理性 |
| recognize connections | 找出關聯性 |
| record data | 記錄數據 |
| rectangle | 長方形；矩形 |
| rectangular prism | 矩形棱柱 |
| reflect | 反射（動詞） |
| reflection | 反射（名詞） |
| refute | 反駁；否認……真實性 |
| regular polygon | 規則多邊形 |
| relation | 關係 |
| relative error | 相對誤差 |
| relevant information | 相關信息 |
| repeating decimal | （無窮）循環小數 |
| results | 結果 |
| rhombus | 菱形；斜方塊 |
| right angle | 直角 |
| rotate | 旋轉（動詞） |
| rotation | 旋轉（名詞） |
| rotational symmetry | 旋轉對稱 |
| round (verb) | 四捨五入（動詞） |
| rule | 規則 |
| sale price | 售價 |
| sales | 銷售量 |
| sampling | 抽樣 |
| scientific notation | 科學記數法 |
| sector | 扇形 |

| | |
|-------------------------------|-----------|
| segment bisector | 線段平分線 |
| similar triangles | 相似三角形 |
| simple interest | 單利 |
| simplify | 化簡；簡化 |
| simplify expressions | 化簡/簡化表達式 |
| slope | 坡度；斜率 |
| slope-intercept form | 斜率截距式；斜截式 |
| social contexts | 社會背景/環境 |
| social phenomena | 社會現象 |
| solution | 解 |
| solution set | 解集 |
| solution set of an equation | 方程/等式的解集 |
| solution set of an inequality | 不等式的解集 |
| solutions | 解（複數） |
| solve | 解；解決；解答 |
| solve a simpler problem | 解答簡單題 |
| spatial reasoning | 空間推理 |
| special case(s) | 特例 |
| square | 平方；正方形 |
| square root | 平方根 |
| standard form of a number | 數值標準式 |
| standard representations | 標準表達式 |
| statistics | 統計學 |
| straight edge | 直邊；直尺 |
| strategies | 策略；方法 |
| strategy selection | 策略（方法）選擇 |
| subset | 子集 |
| substitute | 置換；代替；代入 |
| supplementary angles | 補角 |
| supportive argument | 支持性論證 |
| surface area of prisms | 棱柱體的表面積 |
| surface area of cylinders | 圓柱體的表面積 |
| symbols in verbal form | 言語形式的符號 |
| symbols in written form | 書面形式符號 |
| symmetry | 對稱性 |
| system of equations | 方程組 |
| system of inequalities | 不等式組 |
| table of values | 數值表 |
| tax | 稅 |
| technical writing | 技術寫作 |

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|---------------------------------|-----------------|
| term | 項 |
| terminating decimal | 有盡小數 |
| transformation | 變換；轉換；變形 |
| transformational geometry | 圖形變換幾何 |
| translate | 平移；翻譯（動詞） |
| translation | 平移；翻譯（名詞） |
| transversal | 橫截的；橫向的；截線 |
| trapezoid | 梯形 |
| trial and error | 嘗試錯誤；試錯法；試誤法 |
| triangle | 三角形 |
| trinomial | 三項式 |
| unlike denominators | 異分母 |
| valid approach | 有效方法/途徑 |
| validity of sample methods | 樣本法/抽樣法的有效性 |
| variable | 變量 |
| Venn diagram | （維恩）邏輯圖；溫氏圖；範氏圖 |
| verbal expression | 言語表達 |
| verbal form | 言語形式 |
| verbal sentence | 文字語句 |
| verbal symbols | 言語符號 |
| verbally | 用文字；在文字上；在言語上 |
| verify claims of others | 驗證/檢驗其他斷言 |
| verify results | 驗證/檢驗結果 |
| vertex | 頂點 |
| vertical | 垂直的；垂線；鉛垂；重面 |
| vertical angles | 上仰角；對頂角；頂角 |
| vertical line test | 鉛垂線測試 |
| vertical lines | 鉛垂線；縱線 |
| visualization | 直觀化 |
| volume | 容積；體積 |
| volume of a cylinder | 圓柱體體積 |
| volume of a prism | 棱柱體體積 |
| whole number | 正整數及零；整數 |
| width | 寬度 |
| work backwards | 逆向操作/運算 |
| write an equation | 寫等式/方程 |
| written symbols | 書面記號/符號 |
| y-intercept | Y 截距 |
| zero property of multiplication | 乘法的零性質 |