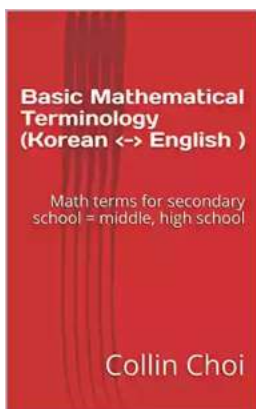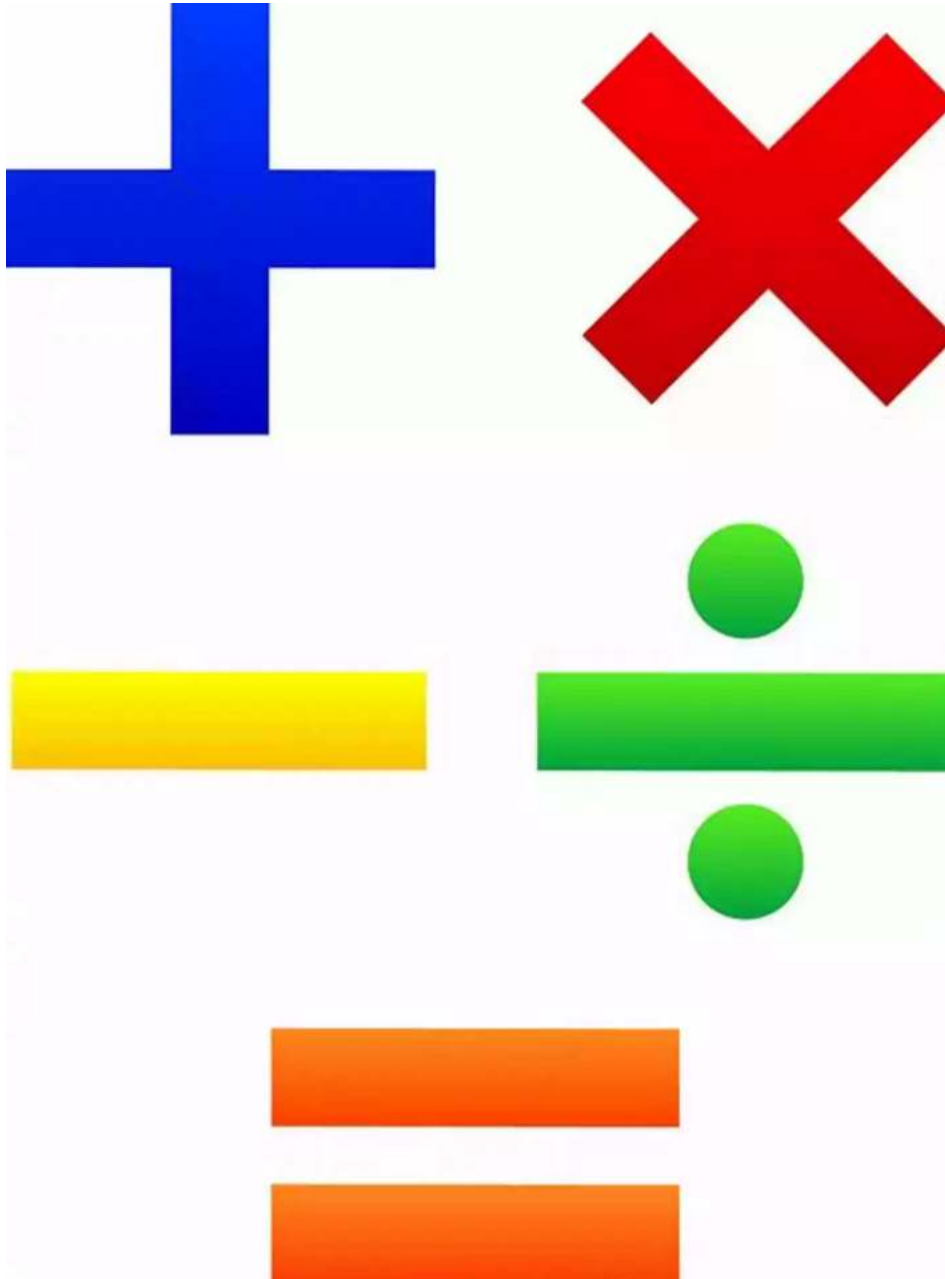# Unlocking the Mysteries: Math Terms for Secondary School Middle High School

Mathematics is a universal language that forms the foundation of numerous academic disciplines and professions. It is crucial for students to not only understand math concepts, but also to be familiar with the relevant terminology. In this article, we will explore a comprehensive list of math terms commonly encountered in secondary schools and middle high schools. Equipped with this knowledge, students can confidently navigate the challenges of their math courses.

1. Addition

One of the basic arithmetic operations, addition involves combining two or more numbers to find their total sum.

Basic Mathematical Terminology (Korean <-> English): Math terms for secondary school = middle, high school by Collin Choi(Kindle Edition)

★★★★★ 5 out of 5

Language	: English
File size	: 10368 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Lending	: Enabled

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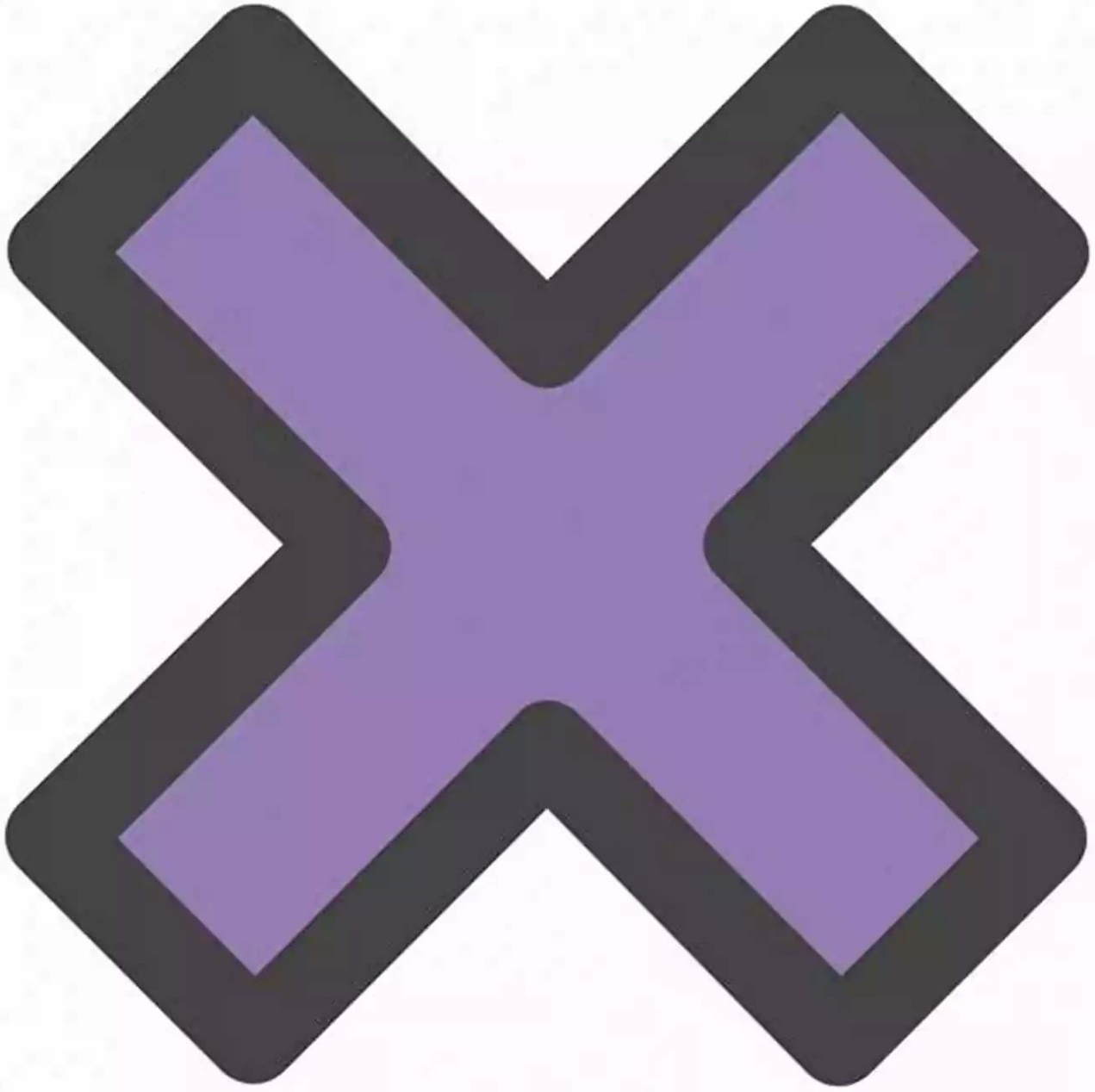
2. Subtraction

This operation is the reverse of addition, where a number is subtracted from another to find the difference between them.
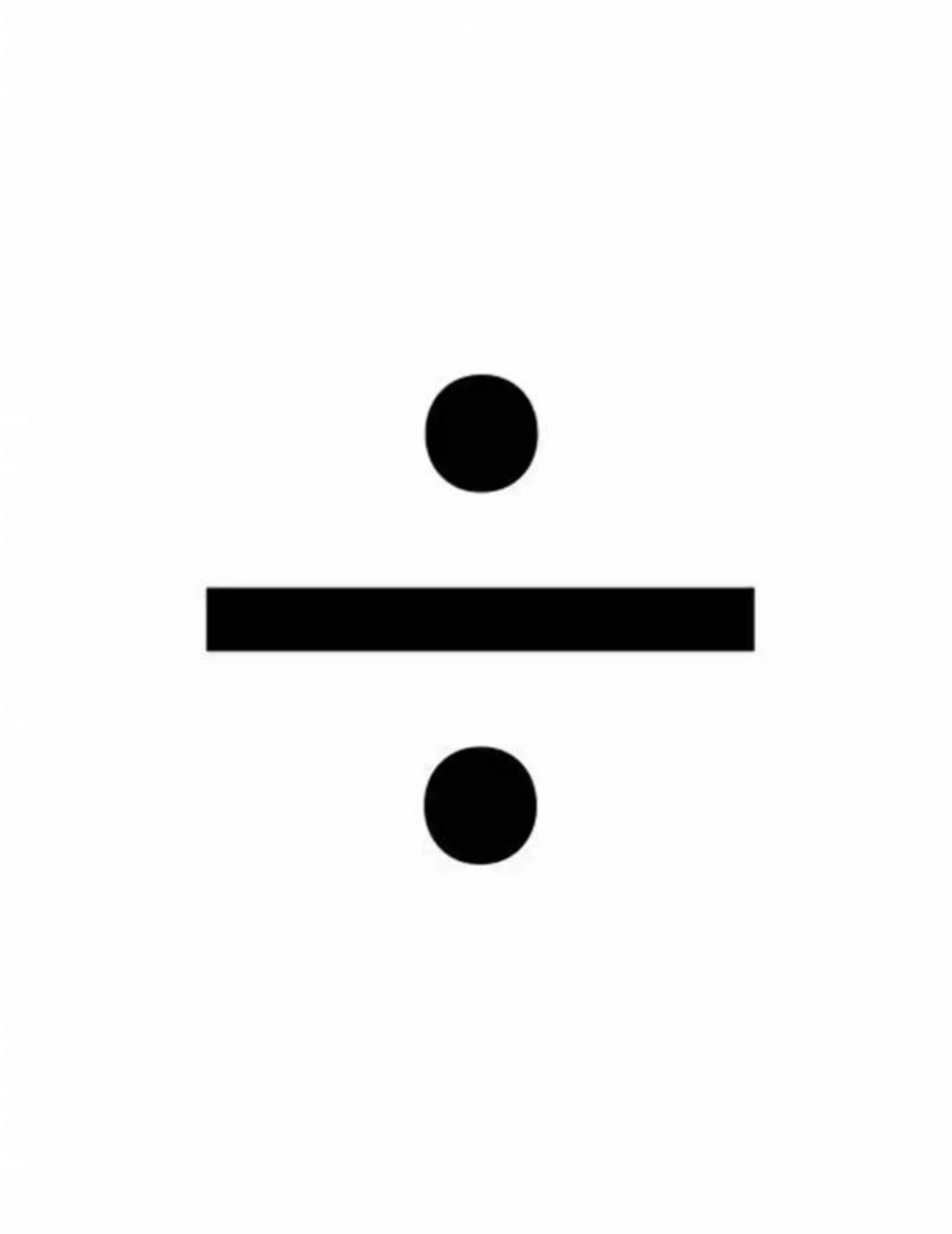
3. Multiplication

Multiplication refers to the process of repeated addition. It involves multiplying two or more numbers to obtain their product.
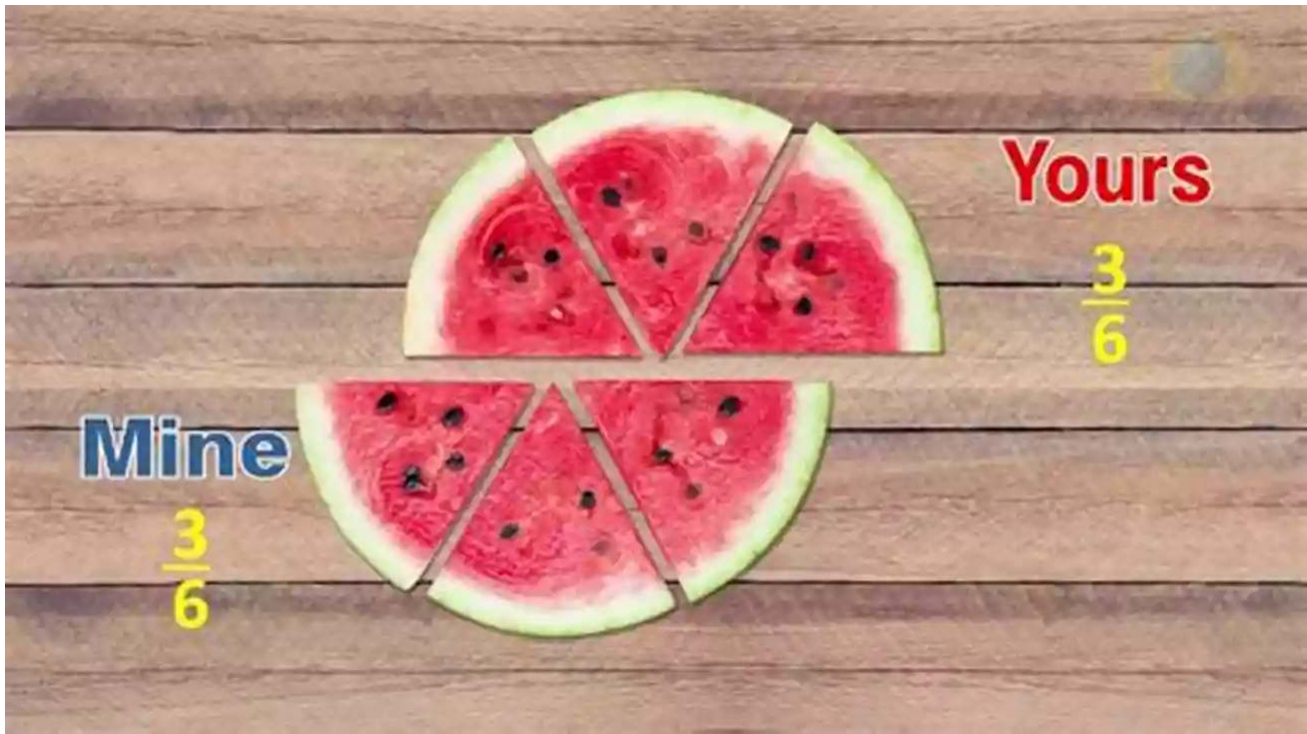
4. Division

The inverse operation of multiplication, division involves splitting a number into equal parts or groups.
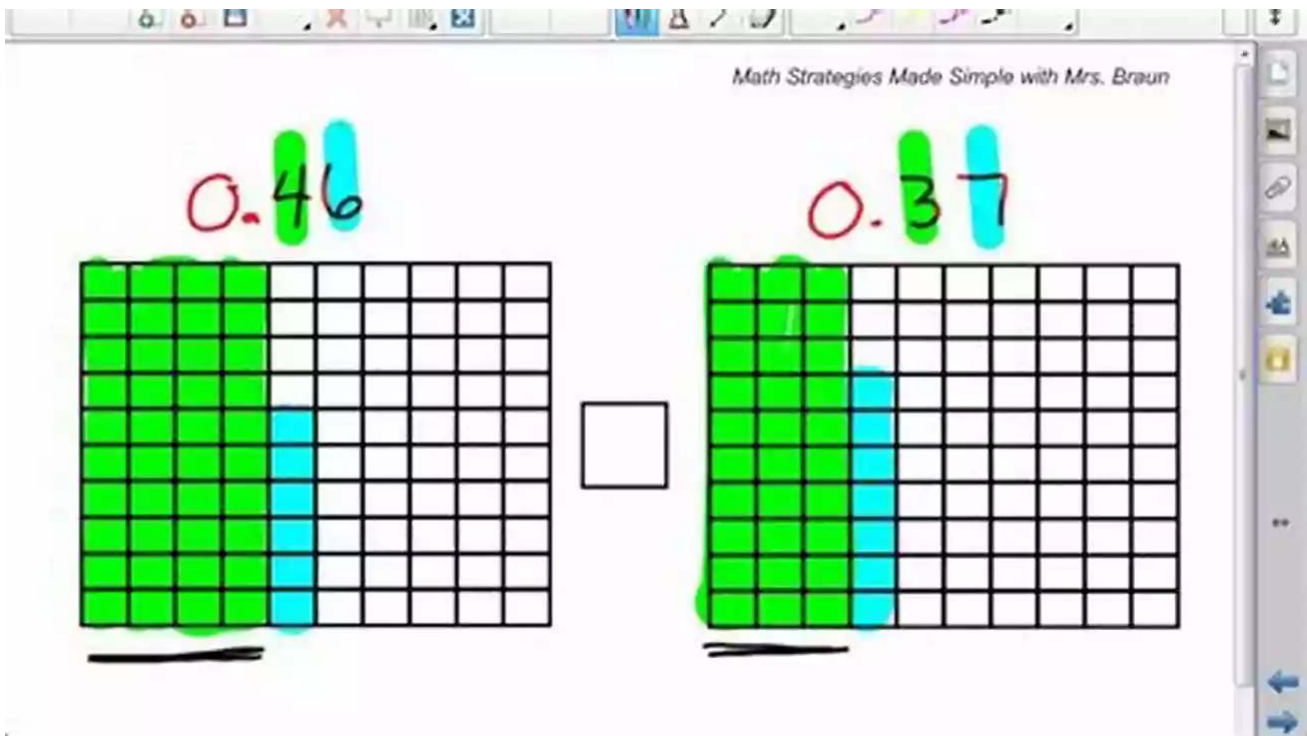
5. Fractions

Fractions represent a part of a whole or a ratio of two numbers. They consist of a numerator (the top number) and a denominator (the bottom number).

6. Decimals

Decimals are a way to represent numbers that fall between two whole numbers. They consist of a decimal point and digits to the right of it.

7. Percentages

Percentages represent a part or a fraction of 100. They are often used to express ratios or proportions.

8. Algebra

Algebra is a branch of mathematics that deals with symbols, variables, and equations, enabling us to solve problems by manipulating these elements.

MATH VOCABULARY IN KOREAN

수학
(su-hak)
Math

더하기
(deo-ha-gi)
addition

빼기
(bbae-gi)
subtraction

곱하기
(gob-ha-gi)
multiplication

나누기
(na-nu-gi)
division

은/는
(eun/neun)
equals

무한대
(mu-han-dae)
infinity

원주율
(weon-ju-yul)
Pi

계산기
(gye-san-gi)
calculator

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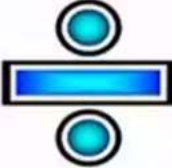facebook.com/DomHyo   domandhyo.com   twitter.com/DomHyo

9. Geometry

Geometry involves the study of shapes, sizes, and properties of figures in both two and three dimensions.

MATH KEYWORDS

+	• add • altogether • both • combined	• how many? • in all • increase • join	• plus • sum • together • total
−	• decrease by • deduct • difference • fewer than • how many left?	• fewer than • left over • less than • minus • reduce	• remains • remove • subtract • take away
X	• altogether • as much • by • equal groups	• groups of • lots of • multiply • multiplied by	• of • per • product of • times
÷	• average • divide • each • equal parts	• evenly • every • out of • over	• quotient • ratio • shared equally • split
=	• costs • is	• is equal to • totals	• was • will be
<	• is less than	• is smaller than	• is fewer than
>	• is greater than	• is larger than	• is more than
≤	• is at most	• is less than or equal to	• is no more than
≥	• is at least	• is greater than or equal to	• is no less than
$\frac{a}{b}$	• a divided by b (a ÷ b) • a for every b	• a out of b • a out of every b	• a over b • what percentage?

10. Trigonometry

Trigonometry focuses on the relationships between angles and sides of triangles.

It finds application in various fields, including engineering and physics.

The Key Word in Word Problems

Add	**Multiply**
Sum	Product
Total	Times
All together	Twice
Plus	Total
In all	Multiplied by
Subtract	**Divide**
Remain	Quotient
Difference	Goes into
Less than	Split Equally
Fewer	Each
How many more	
Minus	

11. Probability

Probability deals with the likelihood of an event occurring. It helps us quantify uncertain situations and make informed decisions.

MATH KEYWORDS

+	add altogether both combined	how many? in all increase join	plus sum together total
−	decrease by deduct difference fewer than how many left?	fewer than left over less than minus reduce	remains remove subtract take away
X	altogether as much by equal groups	groups of lots of multiply multiplied by	of per product of times
÷	average divide each equal parts	evenly every out of over	quotient ratio shared equally split
=	costs is	is equal to totals	was will be
<	is less than	is smaller than	is fewer than
>	is greater than	is larger than	is more than
≤	is at most	is less than or equal to	is no more than
≥	is at least	is greater than or equal to	is no less than
$\frac{a}{b}$	a divided by b (a ÷ b) a for every b	a out of b a out of every b	a over b what percentage?

12. Statistics

Statistics involves collecting, organizing, analyzing, interpreting, and presenting data. It aids in understanding patterns and drawing meaningful s.

MATH SYMBOLS

Symbol	Meaning	Symbol	Meaning
✖	Multiplied by	±	Plus or minus
÷	Divided by	≠	Not equal to
+	Plus	√	Square root of
−	Minus	%	Percent
=	Equal to	∞	Infinity
≈	Approximately equal to	∫	Integral
>	Greater than	Σ	Sum of
<	Less than	⇔	Equivalent to
≥	Greater than or equal	⇒	Implies
≤	Less than or equal	∀	For all
[ ]	Square brackets	∈	Belongs to
( )	Parentheses	π	Pi
{ }	Curly brackets	∅	Empty set
$\overline{ab}$	Segment ab	$\overrightarrow{ab}$	Ray ab
∉	Not belong to	$\sqrt[3]{}$	Cube root of
∠ Angle ∟ Right angle		$\sqrt[4]{}$	Fourth root of

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13. Exponents

Exponents are used to express repeated multiplication. They consist of a base number raised to a certain power.

$$10\,000 = 10^4$$
$$1\,000 = 10^3$$
$$100 = 10^2$$
$$10 = 10^1$$
$$1 = 10^0$$
$$0.1 = 10^{-1}$$
$$0.01 = 10^{-2}$$
$$0.001 = 10^{-3}$$
$$0.0001 = 10^{-4}$$

14. Equations

Equations involve stating that two expressions are equal. They help us find unknown values using a combination of operations.

MATH SYMBOLS

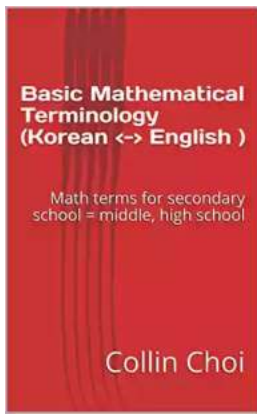| Symbol	Meaning	Symbol	Meaning
×	Multiplied by	±	Plus or minus
÷	Divided by	≠	Not equal to
+	Plus	√	Square root of
−	Minus	%	Percent
=	Equal to	∞	Infinity
≈	Approximately equal to	∫	Integral
>	Greater than	Σ	Sum of
<	Less than	⇔	Equivalent to
≥	Greater than or equal	⇒	Implies
≤	Less than or equal	∀	For all
[ ]	Square brackets	∈	Belongs to
( )	Parentheses	π	Pi
{ }	Curly brackets	Ø	Empty set
$\overline{ab}$	Segment ab	$\overrightarrow{ab}$	Ray ab
∉	Not belong to	$\sqrt[3]{}$	Cube root of
∠ Angle ∟ Right angle		$\sqrt[4]{}$	Fourth root of

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15. Word Problems

Word problems provide real-world scenarios that require the application of mathematical concepts to solve. They enhance critical thinking and problem-solving skills.

MATH KEYWORDS

+	• add • altogether • both • combined	• how many? • in all • increase • join	• plus • sum • together • total
−	• decrease by • deduct • difference • fewer than • how many left?	• fewer than • left over • less than • minus • reduce	• remains • remove • subtract • take away
X	• altogether • as much • by • equal groups	• groups of • lots of • multiply • multiplied by	• of • per • product of • times
÷	• average • divide • each • equal parts	• evenly • every • out of • over	• quotient • ratio • shared equally • split
=	• costs • is	• is equal to • totals	• was • will be
<	• is less than	• is smaller than	• is fewer than
>	• is greater than	• is larger than	• is more than
≤	• is at most	• is less than or equal to	• is no more than
≥	• is at least	• is greater than or equal to	• is no less than
$\frac{a}{b}$	• a divided by b (a ÷ b) • a for every b	• a out of b • a out of every b	• a over b • what percentage?

Mathematics forms an integral part of our lives, and getting well-versed in math terms allows students to embark on a fruitful journey in their academic and professional pursuits. By understanding the definitions and visual representations of these math concepts, students will be well-equipped to tackle complex problems and connect various mathematical ideas. Practicing these terms will help solidify their understanding and boost their overall performance in math-related subjects.

Basic Mathematical Terminology (Korean <-> English): Math terms for secondary school = middle, high school by Collin Choi(Kindle Edition)

⭐⭐⭐⭐⭐ 5 out of 5

Language	: English
File size	: 10368 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Lending	: Enabled
Print length	: 126 pages
Screen Reader	: Supported

Over 100 pages of math exercise notebook is added

Objective of this book) Korean students who enter a secondary school (middle or high school) or universities will suffer from difficulty to understand the mathematical terms in English.

This short hand book can help them to easily understand the basic terms and then they can keep having interest in mathematics.

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[Index]

Part I. How to study math abroad

Part II. □□□ □□□ (□□□ -> □□)

Chapter 1: □□, □□ □ (Set, Numbers and Expressions)

Chapter 2: □□□□ □□□, □□(Equations and Inequalities, functions)

Chapter 3: □□□ □□ (Geometry and Locus)

Chapter 4: □□□ □□, □□□, □□ (Exponent and Logarithm, Trigonometric ratio, probability)

Chapter 5: □□, □□, □□□(Sequences, Series, calculus)

Part III. □□ □□

Part IV. □□ -> □□□ □□

+ □□ □□ □□□(Math exercise notebook) over 100 pages

*From the book

In a limited environment, with a limited method of teaching, increasing children's ability to concentrate on math is key.

1. Let them sleep well. Simply let them take a nap during break time and concentrate on the class later.

2. Quality rather than quantity! There is no chance of bettering the math skills of children in class when they have sleepy brains.

3. Prevention of severe exercise before sleeping! Do not let them watch movies or soap operas before sleeping!

4. No computer games, phone usage in the two hours before bed time

5. The common computer shall be moved to the living room. Downgrade to a 2G phone. I would like to write a book on the subject of whether a smart-phone is really necessary for children. A 2G phone is enough.
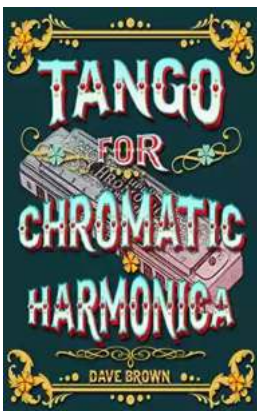
6. Dress code is also important! When children study in sleeping clothes, the sleep will come to them. A little bit uncomfortable or even tight clothes will be better.

7.Hang a white board in the children's room or study room. They will write one English word or one mathematical formula on the board, in order to memorize.

8.Can you buy a standing desk? Standing while studying can help children concentrate. At the same time, leg strength can be increased, and belly fat will be reduced.*

*Strengths of this book

When Korean students want to have a good score at SAT test, IB or IGSCE math test, they would better study math terminology in Korean and English simultaneously. This book also can be applicable to the students who want to participate in math competitions globally.

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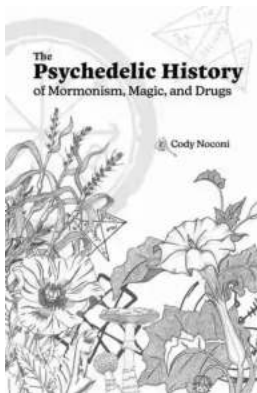
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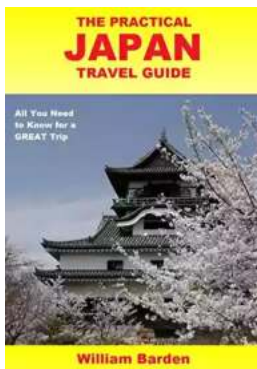
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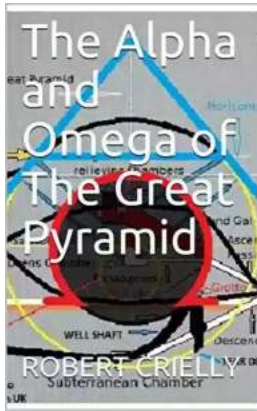
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