

# Math Reference Sheet

## Metric Conversions (King Henry Died Unusually Drinking Chocolate Milk)

Kilo-	Hecto-	Deca-	UNIT	Deci-	Centi-	Milli-
1000 units	100 units	10 units	Base Unit Meters, Jars, Years	0.1 units	0.01 units	0.001 units

Divide numbers by 10 if you are converting to a bigger unit - or move decimal to the left

Multiply numbers by 10 if you are converting to a smaller unit - or move decimal to the right

### Area Formulas

Triangle	$A = \frac{1}{2}bh$
Rectangle	$A = lw$
Trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
Parallelogram	$A = bh$
Circle	$A = \pi r^2$

### Angle Facts

- Right Angle:  $90^\circ$
- Acute: less than  $90^\circ$
- Obtuse: larger than  $90^\circ$
- Complementary: Two angles with a sum of  $90^\circ$
- Supplementary: Two angles with a sum of  $180^\circ$

### Pythagorean Theorem



$$c^2 = a^2 + b^2$$

c is always the hypotenuse

### Integer Rules

when adding and subtracting integers with like signs add and keep the sign.

$$[-4 + (-3) = -7] \quad [5 + 4 = 9] \quad [4 - 3 = 1]$$

when adding and subtracting integers with unlike signs subtract and keep the sign of the higher number.

$$[-7 + 3 = -4] \quad [4 + (-2) = 2]$$

when subtracting a negative, it turns into a positive.

$$[8 - (-2) = \text{becomes } 8 + 2 = 10]$$

when multiplying and dividing with same signs the product is always positive.

$$[4 \times 5 = 20] \quad [-4 \times -4 = 16] \quad [-4 \div -4 = 1]$$

if the signs are different, the product is always negative.

$$[-4 \times 5 = -20] \quad [4 \div 2 = 2] \quad [4 \div -2 = -2]$$

### Slope-Intercept Form

$$y = mx + b \quad \text{or} \quad y = b + mx$$

m = slope and b = y-intercept

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1} \quad \text{where } x_1 \neq x_2$$

$$\text{y-intercept} = \left( \frac{y_1 - y_2}{x_2 - x_1} \right)$$

$$\text{distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Sum of degree measures of all the interior angles of a polygon

$$180(n - 2)$$

Degree measure of one interior angle of a regular polygon

$$\frac{180(n - 2)}{n}$$

n is the number of sides of the polygon

### Perfect Squares

$1^2 = 1$	$6^2 = 36$
$2^2 = 4$	$7^2 = 49$
$3^2 = 9$	$8^2 = 64$
$4^2 = 16$	$9^2 = 81$
$5^2 = 25$	$10^2 = 100$

Multiplication Rule	$a^m \cdot a^n = a^{m+n}$
Division Rule	$\frac{a^m}{a^n} = a^{m-n}$
Power of a Power Rule	$(a^m)^n = a^{mn}$
Power of a Product Rule	$(ab)^n = a^n b^n$
Power of a Fraction Rule	$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$
Zero Exponent	$a^0 = 1$
Negative Exponent	$a^{-n} = \frac{1}{a^n}$
Fractional Exponent	$a^{\frac{1}{n}} = \sqrt[n]{a}$

## Percent - Decimal - Fraction Conversions

Percent to decimal - Pass over the percent symbol and divide by 100.

Percent to fraction - Pass over percent symbol, use as the numerator over 100, reduce fraction

Decimal to percent - Multiply by 100, add percent symbol

Decimal to fraction - Pass over decimal point and make that the numerator over 100, reduce fraction

Fraction to decimal - Divide numerator by denominator

Fraction to percent - Divide numerator by denominator, multiply by 100, add percent symbol

# Middle School Math Reference Sheet

**National Information Center for  
Special Education Materials**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

## **Middle School Math Reference Sheet:**

*Achieving Your Best in Math Class* Charles P. Kost II, 2013-02-28 This collection of self guided lessons includes the essential skills that are needed to be successful in any mathematics class at the middle school high school and post secondary levels Students who are struggling in math class as well as students who want to maximize their abilities in class will find these easy to implement strategies effective and practical Each lesson includes practice problems to master the concepts and employ them into everyday practice The strategies are divided into three units each focusing on different aspects of achievement The first unit includes organization note taking and techniques to study mathematics Unit II includes problem solving techniques that can be applied in any mathematics class and the last unit provides techniques to maximize scores on any assessment from quizzes to final exams and even the SATs

**Achieving Your Best on Math Tests** Charles P. Kost II, 2013-08-21 Students who apply these techniques will score better on mathematics assessments In the current world of high stakes testing these strategies are essential in maximizing test scores and developing skills that can be used in other disciplines and beyond Back cover *Resources in Education* ,1992 Mathematics Teaching in the Middle School ,2008-08 **The Teachers Journal and Abstract** ,1927 El-Hi Textbooks & Serials in Print Bowker Editorial Staff,2004-02 **Teaching Teens with ADD and ADHD** Chris A. Zeigler Dendy,2000 From the author of the highly acclaimed *Teenagers with ADD* comes a new book especially for teachers of teenagers with attention deficit disorder This book contains concise summaries of over fifty key issues related to ADD and school success From understanding the basics of ADD to using effective interventions everything a teacher needs to know is included in this book Busy teachers and administrators will appreciate the ease of using this quick reference Parents who see their children struggling can use this book at home especially when faced with homework difficulties and to help to co ordinate efforts with teachers Particularly helpful for the home school partnership are the many blank forms and checklists suitable for photocopying An invaluable tool this book gives teachers what they need to know in order to support their students and help them to succeed in school

**Resources in Education** ,1997 **Reading to Learn in the Content Areas** Judy S. Richardson,Raymond F. Morgan,2003 Book helps teachers promote reading for understanding and enable their students to become autonomous learners Combining discussion of theory with successful strategies and practical applications Richardson and Morgan show how to develop children s appreciation of reading as an active learning tool for every subject they study

Computer-integrated Instruction Inservice Notebook, Elementary School David Moursund,1989 The purpose of this notebook is to assist educators who are designing and implementing inservice education programs to facilitate the effective use of computer integrated instruction CII in schools It is divided into the following five sections 1 Effective Inservice a brief summary of inservice literature focused on inservice dimensions and design principles 2 Background Information an overview of computers in education and a discussion of the roles of computers in problem solving 3 Initiating Planning an

Inservice suggestions for preliminary planning and activities and a sample timeline for those activities 4 An Eight Session Elementary School Inservice 2 hour sessions on interpreting data with graphs integrating graphing software with existing materials unstructured and structured data structuring and analyzing data database and word processing prewriting activities with word processing process writing conferences and Formula Vision and revising and editing with a word processor and 5 Instruments and Evaluation a variety of instruments for needs assessment formative evaluation and summative evaluation Each 2 hour elementary school inservice session contains some or all of the following narrative overview script topics objectives materials activities timeline handouts and readings Also included are appropriate articles from issues of The Computing Teacher and a Macintosh diskette References are listed in the first three sections DB

**Teaching Reading in Today's Middle Schools** Betty D. Roe, Sandy H. Smith, 2004-10 This text combines a research based approach to reading instruction with the theories issues and strategies most relevant to prospective middle school teachers The authors promote a balanced approach to literacy instruction that includes active learning cooperative learning and critical thinking strategies These strategies and their applications empower teachers to become key decision makers in their students literacy programs *Oregon Administrative Rules Compilation* ,2004 *Praxis Middle School Mathematics (5164) Formula Sheet and Key Points* Abolfazl Nazari, 2024-07-27 [Oregon Administrative Rules](#) ,2001 [Carolina Science and Math](#) Carolina Biological Supply Company, 2003 **Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed** National Information Center for Special Education Materials, 1978 *Dictionary of the English and German Languages for Home and School* Felix Flügel, 1902 **Ruppert Notes** Eric Ruppert, 2015-07-27 Common Core Revealed The absolute BEST study guide booklet for 7th grade Common Core math you can buy Period 35 pages of stripped down right to the point step by step explanations This material is teacher created with insider tips and tricks that only a middle school math teacher would know Many examples are provided with every section and sub section of the Common Core Out Smart your teacher with advanced math knowledge Get a serious leg up help with this step by step Quick Reference Guide for 7th grade math **Associations' Publications in Print** ,1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index Acronym index Key to publishers and distributors abbreviations *Teaching Children Mathematics* ,1999

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