

# 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, Grams, Seconds	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.

$$[-4 + (-3) = -7] \quad [5 + 4 = 9] \quad [5 - 3 = 2]$$

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.

$$[4 \times 5 = 20] \quad [-4 \times -4 = 16] \quad [-8 \div -4 = 2]$$

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

$$[-4 \times 5 = -20] \quad [12 \div (-3) = -4]$$

### Slope-Intercept Form

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

m = slope and b = y-intercept

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

$$\text{y-intercept} = \left( \frac{y_1 - mx_1}{1} \right)$$

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

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 Study Guides

**Sasha Hu**



## **Middle School Math Study Guides:**

MTEL Middle School Mathematics (47) Study Guide Trivium Test Trivium Test Prep, 2013-09-27 Think all MTEL Middle School Math study guides are the same Think again With easy to understand lessons and practice test questions designed to maximize your score you'll be ready You don't want to waste time and money retaking an exam You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the MTEL Middle School Math test but realize too late when they get their score back that they were not ready at all They weren't incapable and they certainly did their best but they simply weren't studying the right way There are a variety of methods to prepare for the MTEL Middle School Math exam and they get a variety of results Trivium Test Prep's Middle School Math study guide provides the information secrets and confidence needed to get you the score you need the first time around Losing points on the MTEL Middle School Math exam can cost you precious time money and effort that you shouldn't have to spend What is in the book In our MTEL Middle School Math study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and have fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam MTEL Math practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package

Praxis Middle School Math 5169 Study Guide Test Prep Books Math Exam Team, 2018-07-19 Test Prep Books's Praxis Middle School Math 5169 Study Guide Praxis II Middle School Mathematics 5169 Test Prep Practice Test Questions Developed by Test Prep Books for test takers trying to achieve a passing score on the Middle School Math Praxis exam this comprehensive study guide includes Quick Overview Test Taking Strategies Introduction Arithmetic and Algebra Geometry and Data Practice Questions Detailed Answer Explanations Disclaimer Praxis R and Praxis II Middle School Mathematics R are registered trademarks of the Educational Testing Service R which was not involved in the production of and does not endorse this product Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the Praxis II Middle School Mathematics 5169 test The Test Prep Books Praxis Middle School Math practice test questions are each followed by detailed answer explanations If you miss a question it's important that you are able to understand the nature of your mistake and how to avoid making it again in the future The answer explanations will help you to learn from your mistakes and overcome them Understanding the latest test taking strategies is essential to preparing you for what you will expect on the exam A test taker has to not only understand the material that is being covered on the test but also must be familiar with the strategies that are necessary to properly utilize the time provided and get through the test without making any avoidable errors Test Prep Books has drilled down the

top test taking tips for you to know Anyone planning to take the Praxis 5169 should take advantage of the review material practice test questions and test taking strategies contained in this Test Prep Books study guide **Praxis 5169 Middle School Math Study Guide** Tpb Publishing,2020-09-10 Test Prep Books Praxis 5169 Middle School Math Study Guide Praxis II Middle School Mathematics 5169 Exam Prep and Practice Test Questions 2nd Edition Made by Test Prep Books experts for test takers trying to achieve a great score on the Praxis 5169 Praxis II Middle School Math exam This comprehensive study guide includes Quick Overview Find out what s inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what s on it Arithmetic and Algebra Operations and Properties of the Real Number System Fractions Decimals and Percents Algebra Functions and Their Graphs Geometry and Data Geometry and Measurement Probability Statistics and Discrete Mathematics Practice Questions Practice makes perfect Detailed Answer Explanations Figure out where you went wrong and how to improve Studying can be hard We get it That s why we created this guide with these great features and benefits Comprehensive Review Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the test Practice Test Questions We want to give you the best practice you can find That s why the Test Prep Books practice questions are as close as you can get to the actual Praxis 5169 Praxis II Middle School Math test Answer Explanations Every single problem is followed by an answer explanation We know it s frustrating to miss a question and not understand why The answer explanations will help you learn from your mistakes That way you can avoid missing it again in the future Test Taking Strategies A test taker has to understand the material that is being covered and be familiar with the latest test taking strategies These strategies are necessary to properly use the time provided They also help test takers complete the test without making any errors Test Prep Books has provided the top test taking tips Customer Service We love taking care of our test takers We make sure that you interact with a real human being when you email your comments or concerns Anyone planning to take this exam should take advantage of this Test Prep Books study guide Purchase it today to receive access to Praxis 5169 study guide Praxis II Middle School Math 5169 review materials Praxis 5169 practice test Praxis II Middle School Math practice questions Test taking strategies **Praxis II Middle School Mathematics (0069) Study Guide** Trivium Test Trivium Test Prep,2013-10-07 Think all Praxis II Middle School Math study guides are the same Think again With easy to understand lessons and practice test questions esigned to maximize your score you ll be ready You don t want to waste time and money retaking an exam You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the Praxis II Middle School Math exam but realize too late when they get their score back that they were not ready at all They weren t incapable and they certainly did their best but they simply weren t studying the right way There are a variety of methods to prepare for the Praxis II Middle School Math test and they get a variety of results Trivium Test Prep s Praxis II Middle School Math study guide provides the

information secrets and confidence needed to get you the score you need the first time around Losing points on the Praxis II Middle School Math exam can cost you precious time money and effort that you shouldn't have to spend What is in the book In our Praxis II Middle School Math study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and have fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam Praxis II Middle School Mathematics practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package     Praxis II Middle School Mathematics (5169) Study Guide Trivium Test Trivium Test Prep,2013-10-07 Think all Praxis II Middle School Mathematics study guides are the same Think again With easy to understand lessons and practice test questions designed to maximize your score you'll be ready You don't want to waste time and money retaking an exam You want to accelerate your education not miss opportunities for starting your future career Every year thousands of people think that they are ready for the Praxis II Middle School Mathematics exam but realize too late when they get their score back that they were not ready at all They weren't incapable and they certainly did their best but they simply weren't studying the right way There are a variety of methods to prepare for the Praxis II Middle School Math test and they get a variety of results Trivium Test Prep's Praxis II Middle School Mathematics study guide provides the information secrets and confidence needed to get you the score you need the first time around Losing points on the Praxis II Middle School Math exam can cost you precious time money and effort that you shouldn't have to spend What is in the book In our Praxis II Middle School Math study guide you get the most comprehensive review of all tested concepts The subjects are easy to understand and have fully explained example questions to ensure that you master the material Best of all we show you how this information will be applied on the real exam Praxis II Middle School Mathematics practice questions are included so that you can know without a doubt that you are prepared Our study guide is streamlined and concept driven so you get better results through more effective study time Why spend days or even weeks reading through meaningless junk trying to sort out the helpful information from the fluff We give you everything you need to know in a concise comprehensive and effective package     *Praxis II Middle School Mathematics Study Guide* Philip Martin McCaulay,2015-05 Praxis II Middle School Mathematics Study Guide contains sample questions of the type that are most likely to appear in the mathematics test designed to measure the math skills and knowledge equivalent to a middle school course of study These practice questions will help improve scores on the Praxis II math test The categories of questions include Number Operations and Number Sense Measurement and Geometry Data Analysis Statistics and Probability and Algebra Functions and Patterns     *Eureka Math Grade 6 Study Guide* Great Minds,2016-04-04 Eureka Math is a comprehensive content rich PreK-12 curriculum that

follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 6 provides an overview of all of the Grade 6 modules including Ratios and Unit Rates Arithmetic Operations Including Dividing by a Fraction Rational Numbers

Expressions and Equations Area Surface Area and Volume Problems Statistics **How to Survive Middle School: Math** Concetta Ortiz, Matt Fazio, 2022-05-03 MYSTIFIED BY MATH Make learning easy with this do it yourself study guide that includes everything kids need to know to tackle middle school math Learning is an adventure both inside and outside of the classroom with the How to Survive Middle School study guide series These colorful highly visual books cover all the essential info kids need to ace important middle school classes Large topics are broken down into easy to digest chunks and reflective questions help kids check understanding and become critical thinkers Written by middle school teachers and vetted by curriculum experts this series is the perfect school supplement or homeschool resource and a great way to help create independent learners HTSMS Math includes key facts and super helpful illustrations tables diagrams and vocab that explore topics including Fractions and Decimals Ratio and Proportions Positive and Negative Integers The Pythagorean Theorem Solving Equations and Inequalities Graphing Systems and Functions Statistics and Probability Area and Volume and more Books also available for World History English Science and U S History *Eureka Math Grade 7 Study Guide* Great Minds, 2016-04-25 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives

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includes 30 Topics with Detailed Summaries 30 Challenging Tests 30 Worksheets Total 800 Practice Questions This book brings together everything you need to know for the Middle school math PRE ALGEBRA It will help you to cover all the math topics CHAPTER I ARITHMETIC The Number System Order of Operations Prime Composite Numbers Divisibility Rules Least Common Multiple Greatest Common Factor Absolute Value Fractions Operations with Fractions Decimal Numbers Rounding Numbers Laws of Exponents Laws of Radicals Scientific Notation CHAPTER II ALGEBRA Algebraic Expressions Equations with Two Variables Solving Equations Inequalities Ratios Proportional Relations Variations Functions Linear Equations Slope Unit Rate Percentages CHAPTER III GEOMETRY Angles Distance Midpoint Triangles Type of Triangles Similarity Theorem Pythagorean Theorem Coordinate Plane Area Perimeter Circles Circumference Area Volume CHAPTER IV PROBABILITY STATISTICS Mean Median Mode Range Probability Challenge Tests Answers Keys

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This book delves into Middle School Math Study Guides. Middle School Math Study Guides is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Middle School Math Study Guides, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Middle School Math Study Guides
- Chapter 2: Essential Elements of Middle School Math Study Guides
- Chapter 3: Middle School Math Study Guides in Everyday Life
- Chapter 4: Middle School Math Study Guides in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Middle School Math Study Guides. This chapter will explore what Middle School Math Study Guides is, why Middle School Math Study Guides is vital, and how to effectively learn about Middle School Math Study Guides.
3. In chapter 2, this book will delve into the foundational concepts of Middle School Math Study Guides. The second chapter will elucidate the essential principles that need to be understood to grasp Middle School Math Study Guides in its entirety.
4. In chapter 3, this book will examine the practical applications of Middle School Math Study Guides in daily life. This chapter will showcase real-world examples of how Middle School Math Study Guides can be effectively utilized in everyday scenarios.
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6. In chapter 5, this book will draw a conclusion about Middle School Math Study Guides. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Middle School Math Study Guides.

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