

Mathematics Formula Sheet & Explanation

The 2014 GED® Mathematical Reasoning test contains a formula sheet, which displays formulas relating to geometric measurement and certain algebra concepts. Formulas are provided to test-takers so that they may focus on *application*, rather than the *memorization*, of formulas.

Area of a:

square	$A = s^2$
rectangle	$A = lw$
parallelogram	$A = bh$
triangle	$A = \frac{1}{2}bh$
trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
circle	$A = \pi r^2$

Perimeter of a:

square	$P = 4s$
rectangle	$P = 2l + 2w$
triangle	$P = s_1 + s_2 + s_3$
Circumference of a circle	$C = 2\pi r$ OR $C = \pi d$; $\pi = 3.14$

Surface area and volume of a:

rectangular prism	$SA = 2lw + 2lh + 2wh$	$V = lwh$
right prism	$SA = ph + 2b$	$V = bh$
cylinder	$SA = 2m\pi r + 2\pi r^2$	$V = \pi r^2 h$
pyramid	$SA = \frac{1}{2}ps + b$	$V = \frac{1}{3}bh$
cone	$SA = m\pi r + \pi r^2$	$V = \frac{1}{3}\pi r^2 h$
sphere	$SA = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$

(p = perimeter of base with area b ; $\pi = 3.14$)

Data

mean	mean is equal to the total of the values of a data set, divided by the number of elements in the data set
median	median is the middle value in an odd number of ordered values of a data set, or the mean of the two middle values in an even number of ordered values in a data set

Algebra

slope of a line	$m = \frac{y_2 - y_1}{x_2 - x_1}$
slope-intercept form of the equation of a line	$y = mx + b$
point-slope form of the equation of a line	$y - y_1 = m(x - x_1)$
standard form of a quadratic equation	$y = ax^2 + bx + c$
quadratic formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Pythagorean theorem	$a^2 + b^2 = c^2$
simple interest	$i = Prt$ (i = interest, P = principal, r = rate, t = time)
distance formula	$d = rt$
total cost	total cost = (number of units) \times (price per unit)

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Table of Contents Njask 2014 Formula Sheets

1. Understanding the eBook Njask 2014 Formula Sheets
 - The Rise of Digital Reading Njask 2014 Formula Sheets
 - Advantages of eBooks Over Traditional Books
2. Identifying Njask 2014 Formula Sheets
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Njask 2014 Formula Sheets
 - User-Friendly Interface
4. Exploring eBook Recommendations from Njask 2014 Formula Sheets
 - Personalized Recommendations
 - Njask 2014 Formula Sheets User Reviews and Ratings
 - Njask 2014 Formula Sheets and Bestseller Lists
5. Accessing Njask 2014 Formula Sheets Free and Paid eBooks
 - Njask 2014 Formula Sheets Public Domain eBooks
 - Njask 2014 Formula Sheets eBook Subscription Services
 - Njask 2014 Formula Sheets Budget-Friendly Options
6. Navigating Njask 2014 Formula Sheets eBook Formats
 - ePub, PDF, MOBI, and More
 - Njask 2014 Formula Sheets Compatibility with Devices
 - Njask 2014 Formula Sheets Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Njask 2014 Formula Sheets
 - Highlighting and Note-Taking Njask 2014 Formula Sheets
 - Interactive Elements Njask 2014 Formula Sheets

8. Staying Engaged with Njask 2014 Formula Sheets
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Njask 2014 Formula Sheets
9. Balancing eBooks and Physical Books Njask 2014 Formula Sheets
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Njask 2014 Formula Sheets
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Njask 2014 Formula Sheets
 - Setting Reading Goals Njask 2014 Formula Sheets
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Njask 2014 Formula Sheets
 - Fact-Checking eBook Content of Njask 2014 Formula Sheets
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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