

8th Grade Math Review

NC EOG IMPORTANT TOPICS

FORMULAS

- Volume of a Cylinder: $\pi r^2 h$
- Volume of a Cone: $\frac{1}{3} \pi r^2 h$
- Volume of a Sphere: $\frac{4}{3} \pi r^3$
- Slope-Intercept Form: $y = mx + b$
- Slope Formula: $\frac{y_2 - y_1}{x_2 - x_1}$
- Area of a Square: $A = s^2$
- Area of a Rectangle: $A = l \times w$
- Area of a Triangle: $A = \frac{1}{2}bh$

APPROXIMATING IRRATIONAL NUMBERS

$$\sqrt{27} \approx \sqrt{25} = 5$$

$$\sqrt{27} \approx \sqrt{36} = 6$$

$$\sqrt{27} \approx 5.2$$

Pythagorean Theorem

Pythagorean Theorem: $\sqrt{a^2 + b^2} = c$

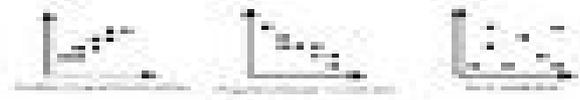
Pythagorean Triple: $a^2 + b^2 = c^2$

Pythagorean Identity: $\sqrt{c^2 - a^2} = b$

SYSTEM OF EQUATIONS



SCATTERPLOT RELATIONSHIPS



WRITING LINEAR EQUATIONS

Find the Slope, Pick a Point, Plug it in.

Pythagorean Theorem

Pythagorean Theorem: $a^2 + b^2 = c^2$

Pythagorean Triple: $a^2 + b^2 = c^2$

Pythagorean Identity: $\sqrt{c^2 - a^2} = b$

INTERIOR & EXTERIOR ANGLES OF TRIANGLES



INVERSE OPERATIONS



TRANSFORMATIONS

Graphing Slope

Types of Slope: Positive, Negative, Zero, Undefined

Graphing Slope: $y = mx + b$

Graphing Slope: $y = mx + b$

8th Grade Study Guide

Lei Shi



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Table of Contents 8th Grade Study Guide

1. Understanding the eBook 8th Grade Study Guide
 - The Rise of Digital Reading 8th Grade Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 8th Grade Study Guide
 - 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 8th Grade Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 8th Grade Study Guide
 - Personalized Recommendations
 - 8th Grade Study Guide User Reviews and Ratings
 - 8th Grade Study Guide and Bestseller Lists
5. Accessing 8th Grade Study Guide Free and Paid eBooks
 - 8th Grade Study Guide Public Domain eBooks
 - 8th Grade Study Guide eBook Subscription Services
 - 8th Grade Study Guide Budget-Friendly Options

6. Navigating 8th Grade Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - 8th Grade Study Guide Compatibility with Devices
 - 8th Grade Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 8th Grade Study Guide
 - Highlighting and Note-Taking 8th Grade Study Guide
 - Interactive Elements 8th Grade Study Guide
8. Staying Engaged with 8th Grade Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 8th Grade Study Guide
9. Balancing eBooks and Physical Books 8th Grade Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 8th Grade Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 8th Grade Study Guide
 - Setting Reading Goals 8th Grade Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 8th Grade Study Guide
 - Fact-Checking eBook Content of 8th Grade Study Guide
 - 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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