

2023 STAAR 8th Grade Math Review!

8TH GRADE STAAR REVIEW (READINESS STANDARDS)

GRAPHING LINEAR EQUATIONS

Steps to Graphing a Line

1. Write the equation in slope-intercept form: $y = mx + b$
2. Identify the slope (m) and y-intercept (b)
3. Plot the y-intercept on the y-axis
4. Use the slope to find another point
5. Draw a straight line through the points

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SOVING EQUATIONS

Example 1: $3x + 5 = 2x + 10$

Subtract the $2x$ from both sides of the equation.

$$3x + 5 - 2x = 2x + 10 - 2x$$

$$x + 5 = 10$$

Subtract 5 from both sides of the equation.

$$x + 5 - 5 = 10 - 5$$

$$x = 5$$

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PYTHAGOREAN THEOREM

Example 1: Find the length of the hypotenuse c .

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

Substitute the values: $3^2 + 4^2 = c^2$

Simplify: $9 + 16 = c^2$

Add: $25 = c^2$

Take the square root of both sides: $5 = c$

The length of the hypotenuse is 5.

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RATE OF CHANGE

Example 1: Find the rate of change for the line passing through the points $(1, 2)$ and $(3, 6)$.

Use the formula: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Substitute the values: $m = \frac{6 - 2}{3 - 1}$

Simplify: $m = \frac{4}{2}$

The rate of change is 2.

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SIMPLE INTEREST

Example 1: Find the simple interest earned on a deposit of \$1000 at a rate of 5% for 3 years.

Use the formula: $I = prt$

Substitute the values: $I = 1000 \cdot 0.05 \cdot 3$

Simplify: $I = 150$

The simple interest earned is \$150.

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TRANSFORMATIONS

Translation: A translation moves a shape up, down, left, or right.

Reflection: A reflection creates a mirror image of a shape across a line of symmetry.

Rotation: A rotation turns a shape around a fixed point.

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COMPOUND INTEREST

Example 1: Find the compound interest earned on a deposit of \$1000 at a rate of 5% for 3 years.

Use the formula: $A = P(1 + r)^t$

Substitute the values: $A = 1000(1 + 0.05)^3$

Simplify: $A \approx 1157.63$

The total amount after 3 years is approximately \$1157.63.

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DILATIONS

Example 1: A dilation with a scale factor of 2 maps a triangle with vertices $(1, 1)$, $(2, 1)$, and $(2, 2)$ to a larger triangle with vertices $(2, 2)$, $(4, 2)$, and $(4, 4)$.

Examples, Vocabulary, and Helpful Tips!

IDENTIFYING FUNCTIONS

Table of Values: A table of values is a function if each input has exactly one output.

Graph: A graph is a function if it passes the vertical line test.

VOLUME

Cylinder: $V = \pi r^2 h$

Cone: $V = \frac{1}{3} \pi r^2 h$

Sphere: $V = \frac{4}{3} \pi r^3$

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RD Boyd



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Table of Contents Grade 8 Staar Math Study Guide

1. Understanding the eBook Grade 8 Staar Math Study Guide
 - The Rise of Digital Reading Grade 8 Staar Math Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 8 Staar Math 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 Grade 8 Staar Math Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 8 Staar Math Study Guide

- Personalized Recommendations
 - Grade 8 Staar Math Study Guide User Reviews and Ratings
 - Grade 8 Staar Math Study Guide and Bestseller Lists
5. Accessing Grade 8 Staar Math Study Guide Free and Paid eBooks
 - Grade 8 Staar Math Study Guide Public Domain eBooks
 - Grade 8 Staar Math Study Guide eBook Subscription Services
 - Grade 8 Staar Math Study Guide Budget-Friendly Options
 6. Navigating Grade 8 Staar Math Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 8 Staar Math Study Guide Compatibility with Devices
 - Grade 8 Staar Math Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 8 Staar Math Study Guide
 - Highlighting and Note-Taking Grade 8 Staar Math Study Guide
 - Interactive Elements Grade 8 Staar Math Study Guide
 8. Staying Engaged with Grade 8 Staar Math Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 8 Staar Math Study Guide
 9. Balancing eBooks and Physical Books Grade 8 Staar Math Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 8 Staar Math Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Grade 8 Staar Math Study Guide
 - Setting Reading Goals Grade 8 Staar Math Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Grade 8 Staar Math Study Guide

- Fact-Checking eBook Content of Grade 8 Staar Math 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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