

Unit 1 Test Study Guide (Geometry Basics)

Name: _____

Date: Jan 11, 2022

Per: 1

Topic 1: Points, Lines & Planes

Use the diagram to the right to answer questions 1-4.

1. Name two points collinear to point K . J, L
2. Give another name for line b . HK
3. Name the intersection of line c and plane R . K
4. Name a point non-coplanar to plane R . N, M



Use the diagram to the right to answer questions 5-8.

5. How many planes are shown in the figure? 5
6. Give another name for plane W . plane DCB
7. Name the intersection of plane ADE and plane W . AD
8. Name a point non-collinear to points A and B . C



Topic 2: Segment Addition Postulate

9. If $DF = 42$, find DE .

$$\begin{array}{c} D \quad E \quad F \\ 7x+1 \quad 4x-3 \\ 7x+1+4x-3=42 \end{array}$$

$$11x - 2 = 42$$

$$11x = 44 \quad x = 4$$

$$DE = 7(4) + 1 = 29$$

10. In the diagram below, if $JL = 10x - 2$, $JK = 5x - 8$, and $KL = 7x - 12$, find KL .

$$\begin{array}{c} J \quad K \quad L \\ 10x - 2 = 5x - 8 + 7x - 12 \\ 10x - 2 = 12x - 20 \\ 18 = 2x \\ x = 9 \end{array}$$

$$KL = 7(9) - 12 = 51$$

11. If S is the midpoint of RT , $RS = 5x + 17$, and $ST = 8x - 31$, find RS .

$$5x + 17 = 8x - 31$$

$$48 = 3x$$

$$x = 16$$

$$RS = 5(16) + 17 = 97$$

12. If line y bisects $\overline{AC}$, $AB = 4 - 5x$, and $BC = 2x + 25$, find AC .

$$\begin{array}{c} C \\ | \\ B \\ | \\ A \end{array}$$

$$4 - 5x = 2x + 25$$

$$4 = 7x + 25$$

$$-21 = 7x$$

$$x = -3$$

$$AB = 4 - 5(-3) = 19$$

$$AC = 2(19) = 38$$

13. If B is the midpoint of $\overline{AC}$, $AC = CD$, $AB = 3x + 4$, $AC = 11x - 17$, and $CE = 49$, find DE .



$$2(3x + 4) = 11x - 17$$

$$6x + 8 = 11x - 17$$

$$25 = 5x$$

$$x = 5$$

$$AC = 11(5) - 17 = 38$$

$$DE = 49 - 38 = 11$$

Geometry Cst Study Guide

Lauren Gardner



Geometry Cst Study Guide:

Barron's Math 360: A Complete Study Guide to Geometry with Online Practice Barron's Educational Series, Lawrence S. Leff, Elizabeth Waite, 2021-09-07 Barron's math 360 provides a complete guide to the fundamentals of geometry Whether you are a student or just looking to expand your brain power this book is your go to resource for everything geometry

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Table of Contents Geometry Cst Study Guide

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

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

- Fact-Checking eBook Content of Geometry Cst 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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