

# Unit 1 Test Study Guide (Geometry Basics)

Name: \_\_\_\_\_

Date: Jan 11, 2022

Per: 1

## Topic 1: Points, Lines & Planes

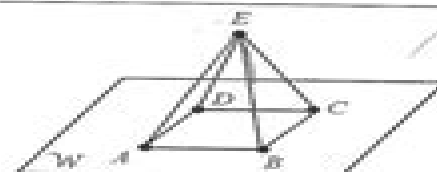
Use the diagram to the right to answer questions 1-4.

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  $DE$ .

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

$$7x+1+4x-3=42$$

$$11x - 2 = 42$$

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

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

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

$$\begin{array}{c} \text{J} \quad \text{K} \quad \text{L} \\ \text{---} \text{---} \text{---} \end{array}$$

$$10x - 2 = 5x - 8 + 7x - 12$$

$$10x - 2 = 12x - 20$$

$$18 = 2x$$

$$x = 9$$

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

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  $AC$ .

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

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

$$4 = 7x + 25$$

$$-21 = 7x$$

$$x = -3$$

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

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

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 Study Guide For Cst 2015 Answers

**L Reisser**



## **Geometry Study Guide For Cst 2015 Answers:**

Geometry Study Guide For Cst 2015 Answers: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## Table of Contents Geometry Study Guide For Cst 2015 Answers

1. Understanding the eBook Geometry Study Guide For Cst 2015 Answers
  - The Rise of Digital Reading Geometry Study Guide For Cst 2015 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Study Guide For Cst 2015 Answers
  - 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 Study Guide For Cst 2015 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Study Guide For Cst 2015 Answers
  - Personalized Recommendations
  - Geometry Study Guide For Cst 2015 Answers User Reviews and Ratings
  - Geometry Study Guide For Cst 2015 Answers and Bestseller Lists
5. Accessing Geometry Study Guide For Cst 2015 Answers Free and Paid eBooks
  - Geometry Study Guide For Cst 2015 Answers Public Domain eBooks
  - Geometry Study Guide For Cst 2015 Answers eBook Subscription Services
  - Geometry Study Guide For Cst 2015 Answers Budget-Friendly Options
6. Navigating Geometry Study Guide For Cst 2015 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Geometry Study Guide For Cst 2015 Answers Compatibility with Devices
  - Geometry Study Guide For Cst 2015 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Geometry Study Guide For Cst 2015 Answers
  - Highlighting and Note-Taking Geometry Study Guide For Cst 2015 Answers
  - Interactive Elements Geometry Study Guide For Cst 2015 Answers
8. Staying Engaged with Geometry Study Guide For Cst 2015 Answers

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Geometry Study Guide For Cst 2015 Answers
- 9. Balancing eBooks and Physical Books Geometry Study Guide For Cst 2015 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Geometry Study Guide For Cst 2015 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Study Guide For Cst 2015 Answers
  - Setting Reading Goals Geometry Study Guide For Cst 2015 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Study Guide For Cst 2015 Answers
  - Fact-Checking eBook Content of Geometry Study Guide For Cst 2015 Answers
  - 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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