

# Unit 1 Test Study Guide (Geometry Basics)

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

Date: Jan 11, 2022

Per: 1

## Topic 1: Points, Lines & Planes

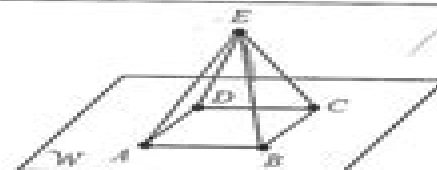
Use the diagram to the right to answer questions 1-4.

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  $DE$ .

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

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

$$11x-2=42$$

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

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

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

$$\begin{array}{c} J \quad \quad K \quad \quad L \\ \overline{JK} \quad \overline{KL} \\ 5x-8 \quad 7x-12 \end{array}$$

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

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

$$18 = 2x$$

$$x = 9$$

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

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  $AC$ .

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

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

$$4 = 7x+25$$

$$-21 = 7x$$

$$x = -3$$

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

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

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



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

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

$$25 = 5x$$

$$x = 5$$

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

$$DE = 49-38 = 11$$

# Unit Review Guide Answers

**K Morrison**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

## **Unit Review Guide Answers:**

The book delves into Unit Review Guide Answers. Unit Review Guide Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Unit Review Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Unit Review Guide Answers
  - Chapter 2: Essential Elements of Unit Review Guide Answers
  - Chapter 3: Unit Review Guide Answers in Everyday Life
  - Chapter 4: Unit Review Guide Answers in Specific Contexts
  - Chapter 5: Conclusion
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4. In chapter 3, the author will examine the practical applications of Unit Review Guide Answers in daily life. The third chapter will showcase real-world examples of how Unit Review Guide Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Unit Review Guide Answers in specific contexts. This chapter will explore how Unit Review Guide Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Unit Review Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.

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