

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 . \overline{AD}
8. Name a point non-collinear to points A and B . C



Topic 2: Segment Addition Postulate

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

$$\begin{array}{c}
 \begin{array}{ccc}
 D & \text{---} & E & \text{---} & F \\
 & 2x+1 & & 4x-3 & \\
 \end{array} \\
 7x+1+4x-3=42 \\
 11x-2=42 \\
 11x=44 \quad x=4 \\
 DE = 7(4)+1 = 29
 \end{array}$$

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

$$\begin{array}{c}
 \begin{array}{ccc}
 J & \text{---} & K & \text{---} & L \\
 & JK & & KL & \\
 \end{array} \\
 10x-2 = 5x-8 + 7x-12 \\
 10x-2 = 12x-20 \\
 18 = 2x \\
 x = 9 \\
 KL = 7(9) - 12 = 51
 \end{array}$$

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

$$\begin{array}{c}
 5x+17 = 8x-31 \\
 48 = 3x \\
 x = 16 \\
 RS = 5(16) + 17 = 97
 \end{array}$$

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

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

$$\begin{array}{c}
 4 - 5x = 2x + 25 \\
 4 = 7x + 25 \\
 -21 = 7x \\
 x = -3 \\
 AB = 4 - 5(-3) = 19 \\
 AC = 2(19) = 38
 \end{array}$$

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



$$\begin{array}{c}
 2(3x+4) = 11x-17 \\
 6x+8 = 11x-17 \\
 25 = 5x \\
 x = 5
 \end{array}$$

$$\begin{array}{c}
 AC = 11(5) - 17 = 38 \\
 DE = 49 - 38 = 11
 \end{array}$$

Compass Geometry Study Guide

David Kirk



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