

# 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  $DE$ .

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

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

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

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  $AC$ .

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

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



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

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

# Math Guide Geometry

**Steve Slavin, Ginny Crisonino**



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