

# Unit 1 Test Study Guide (Geometry Basics)

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

Date: Jan 11, 2022

Per: 1

## Topic 1: Points, Lines & Planes

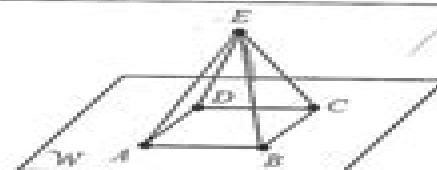
Use the diagram to the right to answer questions 1-4.

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  $DE$ .

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

$$11x - 2 = 42$$

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

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

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

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

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

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  $DE$ .



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

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

$$25 = 5x$$

$$x = 5$$

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

$$DE = 49 - 38 = 11$$

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*Macmillan/McGraw-Hill Math: Teacher ed., v. 2*, 2004

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**State Course of Study High Schools of Virginia ...** Virginia. State Board of Education, 1928

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