

Across

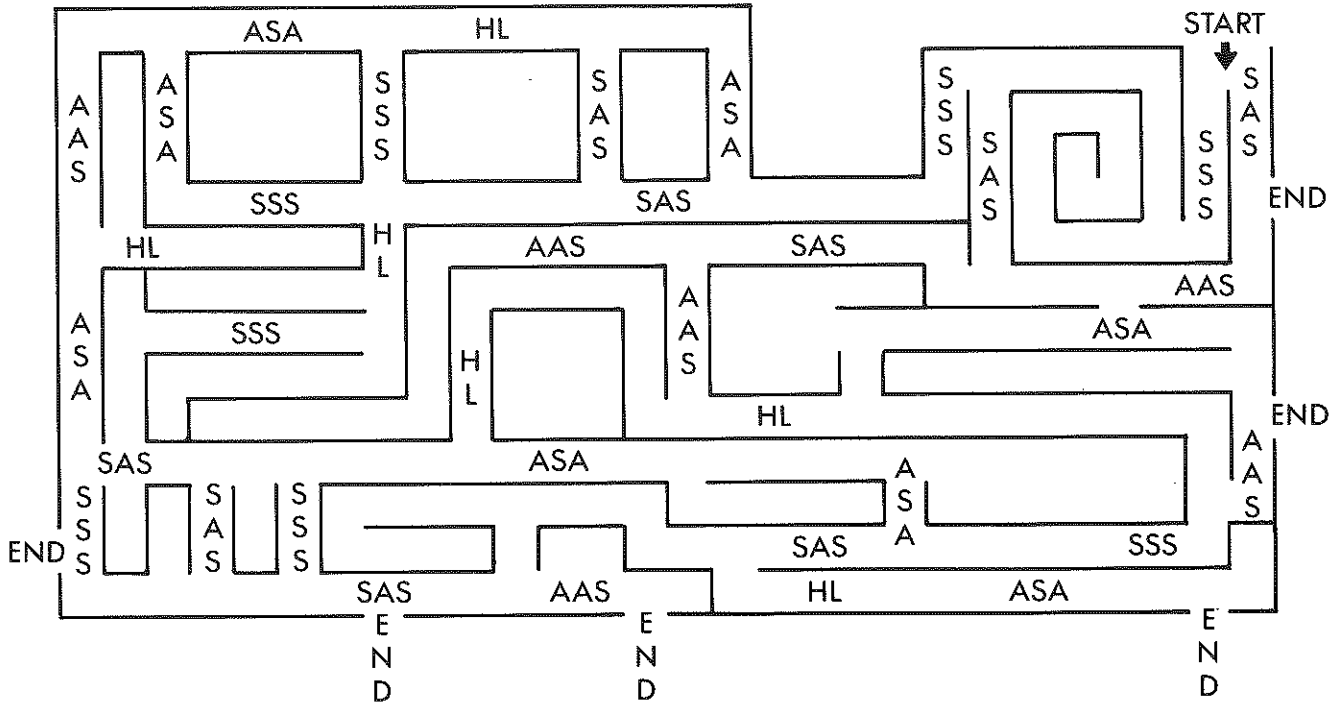
1.  $\cong$
2. Two coplanar lines with no point in common are \_\_\_\_\_.
5. A 90 degree angle is a \_\_\_\_\_ angle.
8. An angle of 180 degrees is \_\_\_\_\_.
10. A statement that can be proved.
14. A ray or line that divides an angle into two equal parts is a \_\_\_\_\_.
16. Lines that form right angles when they meet are \_\_\_\_\_.
17. The endpoint of an angle is the \_\_\_\_\_.
20. Statement accepted without proof.
21.  $\overrightarrow{AB}$  is a \_\_\_\_\_.  $\overrightarrow{A \quad B}$
22. Two angles whose measures total 180 degrees are \_\_\_\_\_.
23. Two lines that are not coplanar and do not intersect are \_\_\_\_\_.
24. An angle less than 90 degrees is \_\_\_\_\_.
26. Tool used to measure angles.
27. In 21 across, point A is an \_\_\_\_\_.
28. Figure XYZ is an \_\_\_\_\_.  $\begin{matrix} & & X \\ & \diagdown & / \\ Y & & \\ & \diagup & \backslash \\ & & Z \end{matrix}$

Down

1. Points that lie on the same line are \_\_\_\_\_.
3.  $\overleftrightarrow{CD}$  is a \_\_\_\_\_.  $\overleftrightarrow{C \quad D}$
4. A line that cuts two or more parallel lines is a \_\_\_\_\_.
6. Figure EFG is a \_\_\_\_\_.  $\triangle EFG$
7. Two angles formed by intersecting lines are \_\_\_\_\_.
9. Lines that meet in one point are said to \_\_\_\_\_.
11. The "if" part of an "if . . . then" statement is the \_\_\_\_\_.  $\overline{H \quad K \quad L}$
12. If  $\overline{HK} \cong \overline{KL}$  then K is the \_\_\_\_\_ of  $\overline{HL}$ .
13. An angle greater than 90 degrees is \_\_\_\_\_.
15. In 12 down  $\overline{HL}$  is a line \_\_\_\_\_.
18. A 40 degree angle is the \_\_\_\_\_ of a 50 degree angle.
19. Two lines that lie in the same \_\_\_\_\_ are either parallel or intersect.
20. In 28 across X is a \_\_\_\_\_.
23. The set of all points is \_\_\_\_\_.
25. A \_\_\_\_\_ shows how a conclusion logically follows from other statements.

A crossword puzzle grid with 28 numbered starting points for words. The grid is 20 squares wide and 15 squares high. The numbers are placed in the top-left corner of the starting squares:

- 1: Down, Row 1, Column 12
- 2: Across, Row 2, Column 3
- 3: Across, Row 2, Column 5
- 4: Across, Row 3, Column 1
- 5: Across, Row 3, Column 5
- 6: Across, Row 3, Column 7
- 7: Across, Row 3, Column 8
- 8: Across, Row 3, Column 10
- 9: Across, Row 3, Column 12
- 10: Across, Row 4, Column 2
- 11: Across, Row 4, Column 3
- 12: Across, Row 4, Column 5
- 13: Across, Row 4, Column 8
- 14: Across, Row 4, Column 10
- 15: Across, Row 4, Column 15
- 16: Across, Row 5, Column 5
- 17: Across, Row 6, Column 1
- 18: Across, Row 7, Column 4
- 19: Across, Row 7, Column 6
- 20: Across, Row 7, Column 10
- 21: Across, Row 8, Column 1
- 22: Across, Row 8, Column 3
- 23: Across, Row 8, Column 10
- 24: Across, Row 9, Column 2
- 25: Across, Row 9, Column 5
- 26: Across, Row 9, Column 8
- 27: Across, Row 10, Column 4
- 28: Across, Row 10, Column 10



On the blank beside each pair of triangles write the reason that they are congruent. Follow the reasons in order through the maze and you will get through without coming to a bad end.

