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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

A Crossword Puzzle of the Language of Geometry

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|  |  |  |  | 3  P |  |  |  |  |  |  |  |  |  |  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | E |  |  |  |  |  |  | 4  R |  |  |  | 5  S | Y | M | M | E | T | 6  R | Y |  |  |  |  |  |  |  |
|  |  |  |  | R |  |  |  |  |  |  | H |  |  |  |  | G |  |  |  |  | A |  |  |  |  |  |  |  |  |
|  |  |  |  | P |  |  |  |  |  | 7  R | O | T | A | T | I | O | N |  |  |  | Y |  |  |  |  |  |  |  |  |
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|  |  |  |  | D |  |  |  |  |  | 9  S | U | P | P | L | E | M | E | N | T | A | R | Y |  |  |  |  | 10  R |  |  |
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|  |  |  |  | C |  |  | 11  R |  |  |  |  |  |  | 12  T |  | 13  S |  |  |  |  | N |  |  |  |  |  | C |  |  |
|  |  | 14  V |  | U |  | 15  P | E | R | I | M | E | T | E | R |  | Q |  |  | 16  L |  | 17  S | E | G | M | E | N | T |  |  |
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|  | 18  T | R | I | A | N | G | L | E |  |  |  | 19  H | E | P | T | A | G | O | N |  | 20  A | D | J | A | C | E | N | T |  |
|  |  | T |  | R |  |  | E |  |  |  | 21  A |  |  | E |  | R |  |  | E |  | T |  |  |  |  |  | G |  |  |
|  |  | E |  |  |  | 22  S | C | A | L | E | N | E |  | Z |  | E |  |  |  |  | I |  |  |  |  |  | L |  |  |
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|  |  |  |  |  |  |  | I |  | 23  D | I | L | A | T | I | O | 24  N |  |  |  |  | N |  |  |  |  |  |  |  |  |
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| **Across**  **2.** the longest side of a right triangle  **5.** exactly similar parts facing each other or around an axis.  **7.** a transformation in which the figure is turned around a fixed center point  **9.** 2 angles that add up to 180 degrees  **15.** the continuous line forming the boundary of a closed figure  **17.** part of a line that is bounded by two distinct end points  **18.** a figure with three straight sides and three angles  **19.** a seven-sided figure  **20.** having a common vertex and a common side  **22.** a triangle that has three unequal sides  **23.** a transformation in which the figure is enlarged or decreased in size  **25.** 2 angles that add up to 90 degrees | **Down**  **1.** a figure with at least three straight sides and angles  **3.** at an angle of 90° to a given line  **4.** a parallelogram with opposite equal acute angles, opposite equal obtuse angles, and four equal sides  **6.** A line with a start point but no end point  **8.** a transformation in which every point of the figure is moved in the same direction and for the same distance  **10.** a figure with four straight sides and four right angles, especially one with unequal adjacent sides, in contrast to a square  **11.** a transformation in which the figure is reflected across a line, creating a mirror image  **12.** a quadrilateral with only one pair of parallel sides  **13.** a figure with four equal straight sides and four right angles  **14.** each angular point of a polygon  **16.** A long thin mark made by a pen  **21.** the space between two intersecting lines or surfaces at or close to the point where they meet  **24.** a nine-sided figure |