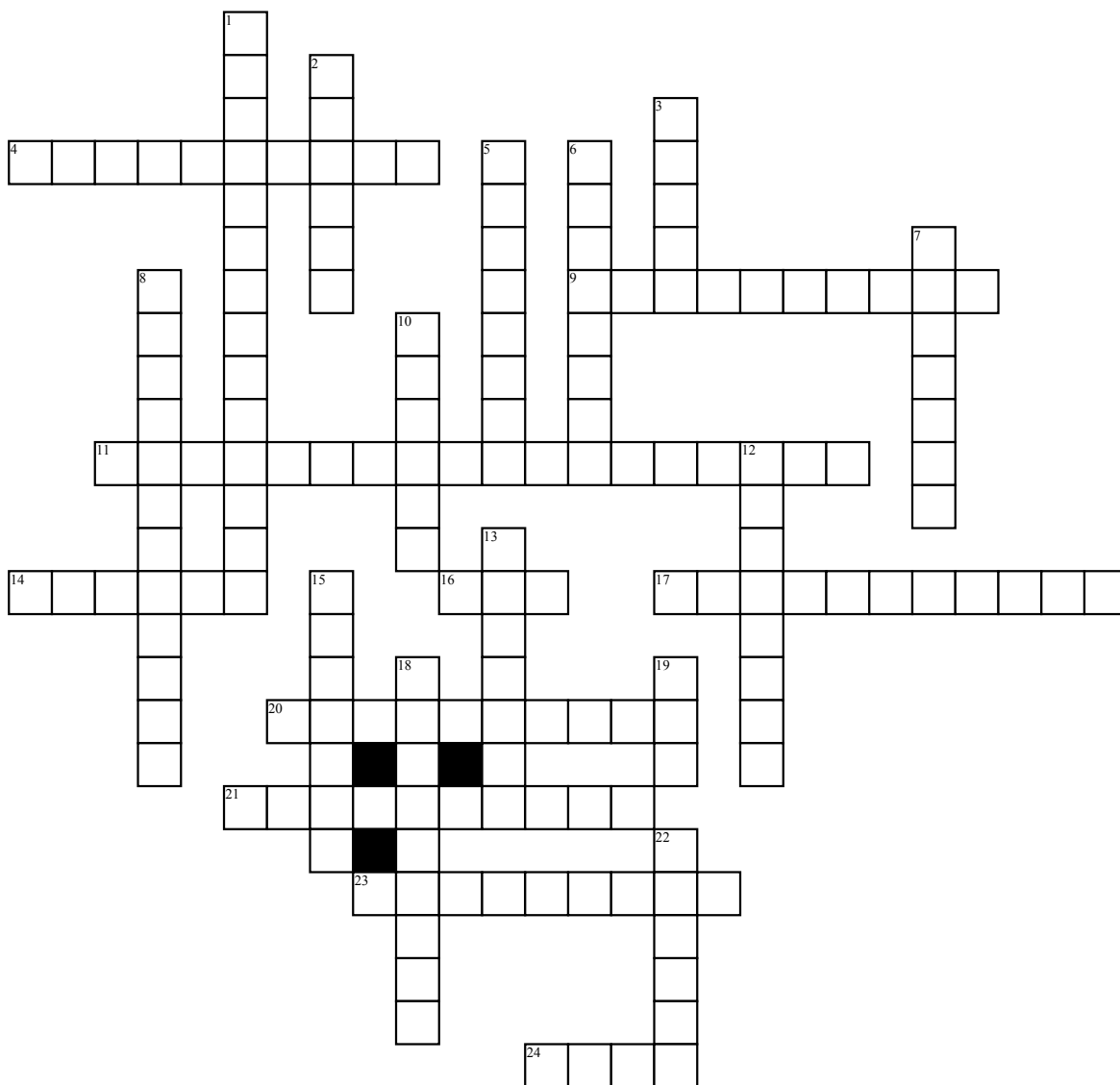


You Better GeomeTRY This Puzzle!



Across

4. A transformation in which a geometric figure is reflected across a line, creating a mirror image
 9. A line segment joining the midpoints of two sides of a triangle
 11. If $a = b$ and $b = c$, then $a = c$
 14. A quadrilateral with four congruent sides and four congruent right angles
 16. A line with a single endpoint
 17. The ratio of any two corresponding lengths in two similar geometric figures
 20. A side of a right triangle that is opposite the 90-degree angle
 21. A statement where two ratios are congruent
 23. A proof in which arrows show the logical connections between the statements

24. A quadrilateral with two pairs of adjacent sides that are congruent

Down

1. An angle in a circle with vertex on the circle itself
 2. A measurement of a figure taken as perpendicular to its base
 3. A line segment on the interior of a circle with both endpoints on the circle
 5. Switching the hypothesis and conclusion of a conditional statement
 6. A line segment between two points on the circle or sphere which passes through the center
 7. Negating both the hypothesis and the conclusion of a conditional statement
 8. An angle in a circle with vertex at the circle's center

10. The trigonometric ratio pertaining to right triangles of adjacent over hypotenuse
 12. A transformation in which a plane figure turns around a fixed center point
 13. The trigonometric ratio pertaining to right triangles of opposite over adjacent
 15. A closed plane figure for which all sides are line segments
 18. A special case of a more general theorem which is worth noting separately
 19. A pattern that you can cut and fold to make a model of a solid shape
 22. The measurement of the amount of space in a solid figure