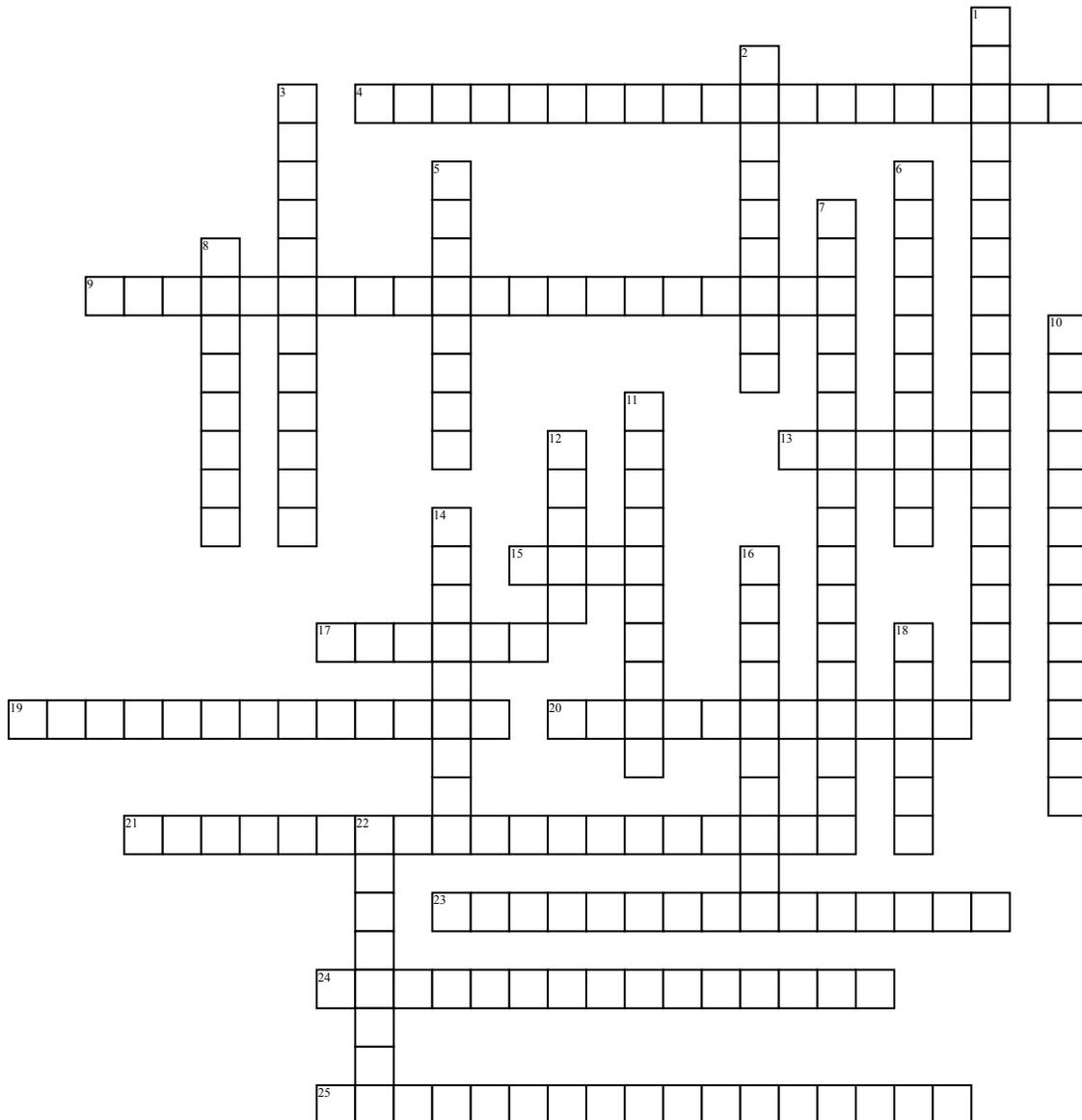


# Math Criss-Cross Puzzle



**Across**

- 4. A factored form of a polynomial.
- 9. The largest integer that divides evenly into each of a given set of numbers.
- 13. The total amount of space enclosed in a solid.
- 15. Another word for average.
- 17. Cut into two congruent halves.
- 19. A point  $(x, y)$  on the graph of a function at which the derivative is either 0 or undefined.
- 20. All numbers on the number line.
- 21. Trig identities that show how to find the sine, cosine, or tangent of half a given angle.
- 23. A special center point for certain kinds of symmetric figures or graphs.
- 24. A series such as  $2 + 6 + 18 + 54 + 162$  or which has a constant ratio between terms.

25. A shortcut for polynomial long division that can be used when dividing by an expression of the form  $x - c$  or  $x + c$ .

**Down**

- 1. A sequence such as 1, 5, 9, 13, 17 or 12, 7, 2, -3, -8, -13, -18 which has a constant difference between terms.
- 2. Base  $b$  of a number  $x$  is the power to which  $b$  must be raised in order to equal  $x$ .
- 3. A matrix with equal numbers of rows and columns.
- 5.  $x$  in the expression  $ax$ .
- 6. To multiply out the parts of an expression. Distributing is the opposite of factoring.
- 7. Real numbers that are not rational.
- 8. The branch of mathematics dealing with limits, derivatives, definite integrals, indefinite integrals, and power series.

- 10. makes a negative number positive.
- 11. The sum or difference of terms which have variables raised to positive integer powers and which have coefficients that may be real or complex.
- 12. The result of raising a base to an exponent. For example, 8 is a power of 2 since  $8$  is  $2^3$ .
- 14. The angle remaining in a sheet of paper after a sector has been cut out so that the paper can be rolled into a right circular cone.
- 16. Any of the symbols  $<$ ,  $>$ ,  $\leq$ , or  $\geq$ .
- 18. The locus of all points that are a fixed distance from a given point.
- 22. The study of geometric figures in two dimensions and three dimensions.