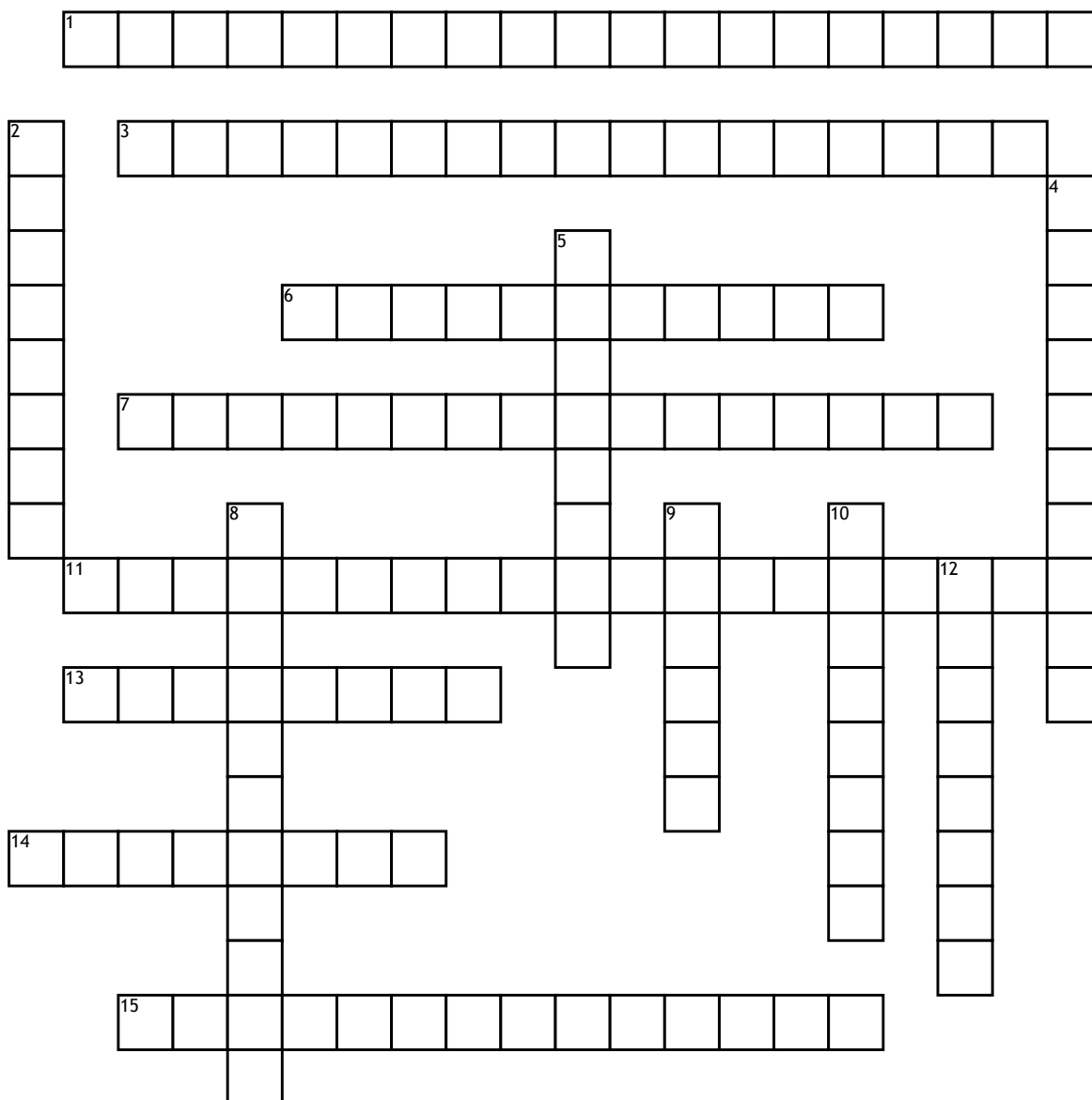


# math vocab



## Across

1. an algebraic expression is an expression built up from integer constants, variables, and the algebraic operations (addition, subtraction, multiplication, division, and exponentiation).
3. A quadratic function is one of the form  $f(x) = ax^2 + bx + c$ , where  $a$ ,  $b$ , and  $c$  are numbers with  $a$  not equal to zero.
6. the process or skill of taking one number or amount away from another.
7. When a population or group of something is declining, and the amount that decreases is proportional to the size of the population, it's called exponential decay.
11. To solve exponential equations with same base, use the property of equality of exponential functions. If  $b$  is a positive number other than 1, then  $bx = by$  if and only if  $x = y$ .

13. the process or skill of calculating the total of two or more numbers or amounts.

14. at right angles to a horizontal plane; in a direction, or having an alignment, such that the top is directly above the bottom.

15. an equation between two variables that gives a straight line when plotted on a graph.

## Down

2. a quantity representing the power to which a given number or expression is to be raised, usually expressed as a raised symbol beside the number or expression (e.g. 3 in  $2^3 = 2 \times 2 \times 2$ ).

4. as a ratio of two integers, and having an infinite and nonrecurring expansion when expressed as a decimal. Examples of irrational numbers are the number  $\pi$  and the square root of 2.

5. expressible, or containing quantities that are expressible, as a ratio of whole numbers. When expressed as a decimal, a rational number has a finite or recurring expansion.

8. a numerical or constant quantity placed before and multiplying the variable in an algebraic expression (e.g. 4 in  $4x$ ).

9. each angular point of a polygon, polyhedron, or other figure.

10. a particular method or system of calculation or reasoning.

12. a whole number; a number that is not a fraction.