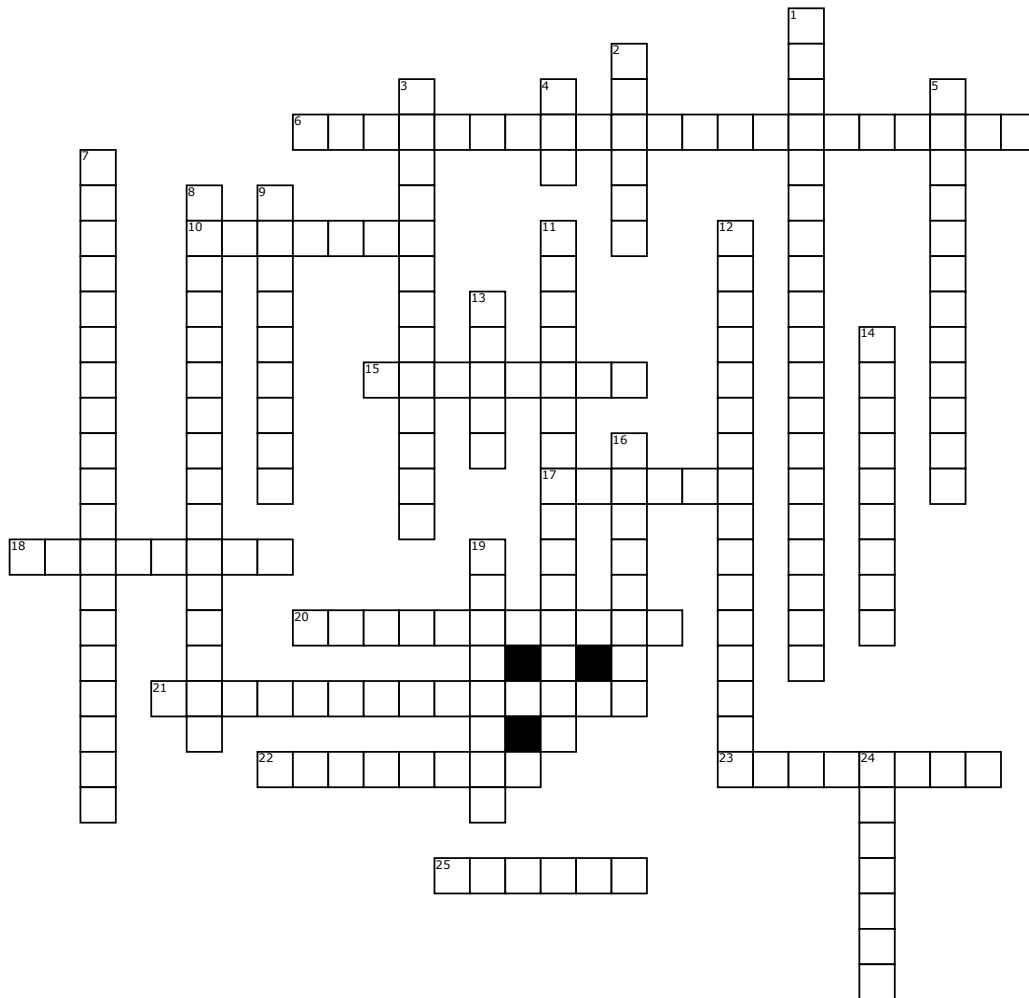


Advanced Math Project



Across

- 6.** Expressions that give the same result when the same values are substituted for the variables
- 10.** A member of, or an object in, a set
- 15.** A type of conic section curve, any point of which is equally distant from a fixed focus point and a fixed straight line
- 17.** A collection of numbers at every point in space which describe how much the space is curved
- 18.** A small number on the top right of a base number, telling you how many times to multiply that base number by itself
- 20.** A number made of a whole number and a fraction
- 21.** The set of positive integers (regular whole counting numbers), sometimes including zero
- 22.** A polynomial algebraic expression or equation with just two terms
- 23.** An ordered set whose elements are usually determined based on some function of the counting numbers
- 25.** A number that will divide into another number exactly

Down

- 1.** A combination of numbers and letters equivalent to a phrase in language
- 2.** A rectangular array of numbers, which can be added, subtracted and multiplied, and used to represent linear transformations and vectors, solve equations, etc
- 3.** A triangle (three sided polygon) containing an angle of 90°
- 4.** A collection of distinct objects or numbers, without regard to their order, considered as an object in its own right
- 5.** The factors of the terms in a mathematical expression or equation
- 7.** Changing the order of the numbers does not change the answer
- 8.** A decimal that goes on forever and has a pattern of repeating digits that repeat forever
- 9.** The shape of the graph that indicates a normal distribution in probability and statistics
- 11.** A number with at least one other factor besides itself and one, i.e. not a prime number
- 12.** Numbers in the form bi , where b is a real number and i is the "imaginary unit", equal to $\sqrt{-1}$ (i.e. $i^2 = -1$)

- 13.** A flat two-dimensional surface with infinite width and length, zero thickness and zero curvature
- 14.** A smooth symmetrical curve with two branches produced by the section of a conical surface
- 16.** Whole numbers, both positive (natural numbers) and negative, including zero
- 19.** An algebraic expression consisting of a single term
- 24.** A plane curve resulting from the intersection of a cone by a plane, that looks like a slightly flattened circle

Word Bank

Natural Numbers
Sequence
Tensor
Right Triangle
Commutative Property
Equivalent Expressions
Composite Number

Matrix
Set
Parabola
Factor
Hyperbola
Ellipse

Mixed Number
Plane
Element
Imaginary Numbers
Integers
Monomial

Repeating Decimal
Exponent
Coefficients
bell curve
Binomial
Algebraic Expression