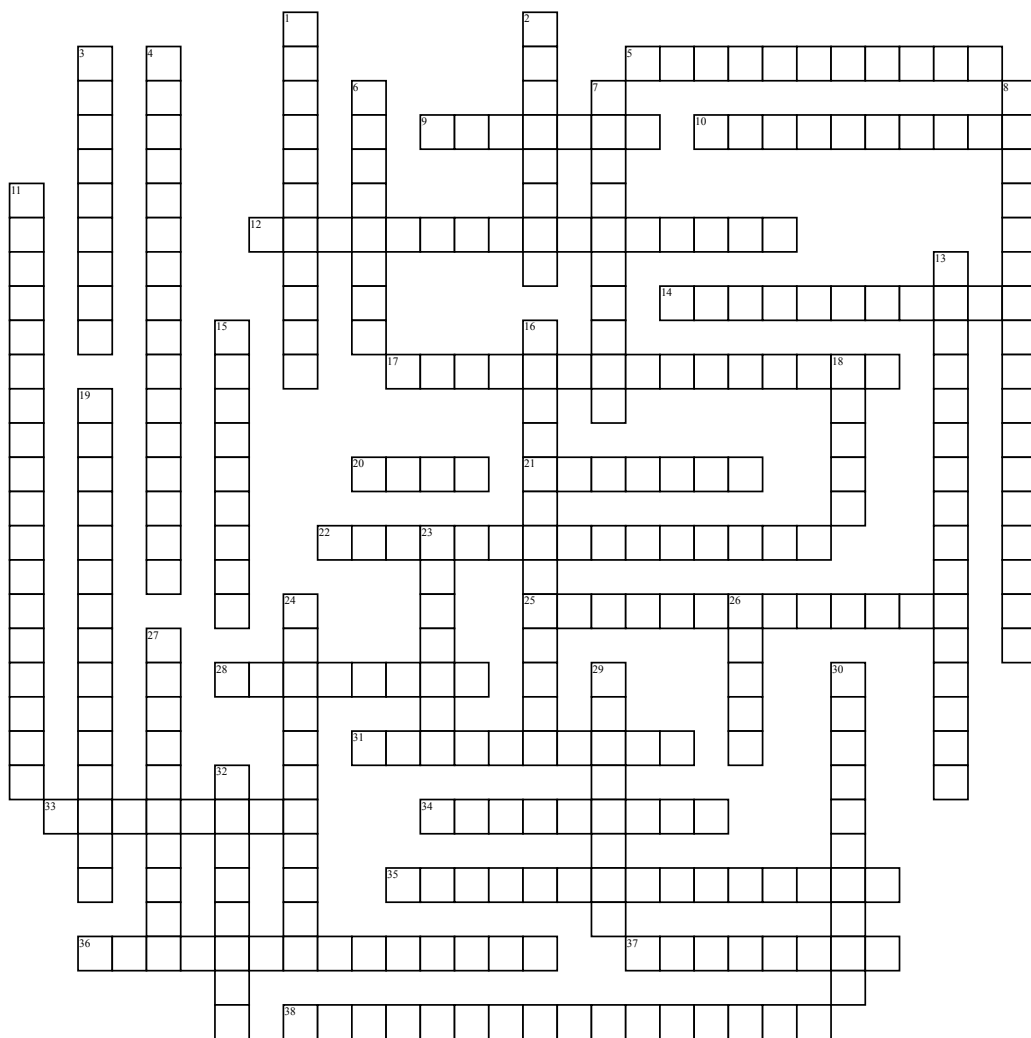


# Number Systems



## Across

5. symbol that shows the first quantity has a greater value than the second quantity  
 9. A set of numbers consisting of the natural numbers, their opposites, and zero  
 10. Any number from the set that includes rational and irrational numbers  
 12. To divide two numbers with the same base, add the exponents  
 14. Any nonzero power raised to the power of zero is 1  
 17. Any number that can be expressed as the ratio of two integers, excluding division by zero  
 20. In a power, the number that is used as a factor the number of times indicated by the exponent  
 21. The symbol which indicates the principal square root of a number  
 22. To find a power of a product, find the power of each factor and multiply  
 25. A number whose square root is a whole number  
 28. A letter or symbol that represents a number or set of numbers

## Word Bank

whole number	terms
less than	Reciprocal
unit rate	Terminating decimal
power of a product	perfect cube
linear equation	greater than
power of 10	constant
inverse operation	base

31. An equation stating that 2 ratios are equal in value  
 33. A value that does not change  
 34. A unit rate in which the numerator is an amount of money  
 35. To multiply two numbers with the same base, add the exponents  
 36. An equation that represents a straight line  
 37. A mathematical sentence with an equal sign  
 38. Operations that undo one another  
**Down**  
 1. A number from the set that includes the counting numbers and zero  
 2. 1 of 3 equal factors of a number  
 3. Terms that have the same variable raised to the same power, or terms that have the same radical expression  
 4. To raise a quotient to a power, raise both the numerator and denominator to that power  
 6. Symbol that shows the first quantity has a lesser value than the second quantity  
 7. two numbers whose product is one

8. Any number that is not rational: can be expressed as non-repeating and non-terminating decimal  
 11. A decimal that has digits that end  
 13. A decimal with one or more digits that repeat forever  
 15. The number 10 used as a base with an exponent  
 16. To raise a power to a power, multiply the exponents  
 18. A comparison of two numbers  
 19. A number written with a and an exponent  
 23. A symbol that shows two quantities have the same value  
 24. A number whose cube root is a whole number  
 26. A number, variable, product, or quotient in an expression  
 27. A mathematical arrangement of numbers and/or variables connected by one or more operations  
 29. A rate that, when expressed as a fraction, has a 1 in the denominator  
 30. One of the two equal factors of a number  
 32. The number under a radical sign