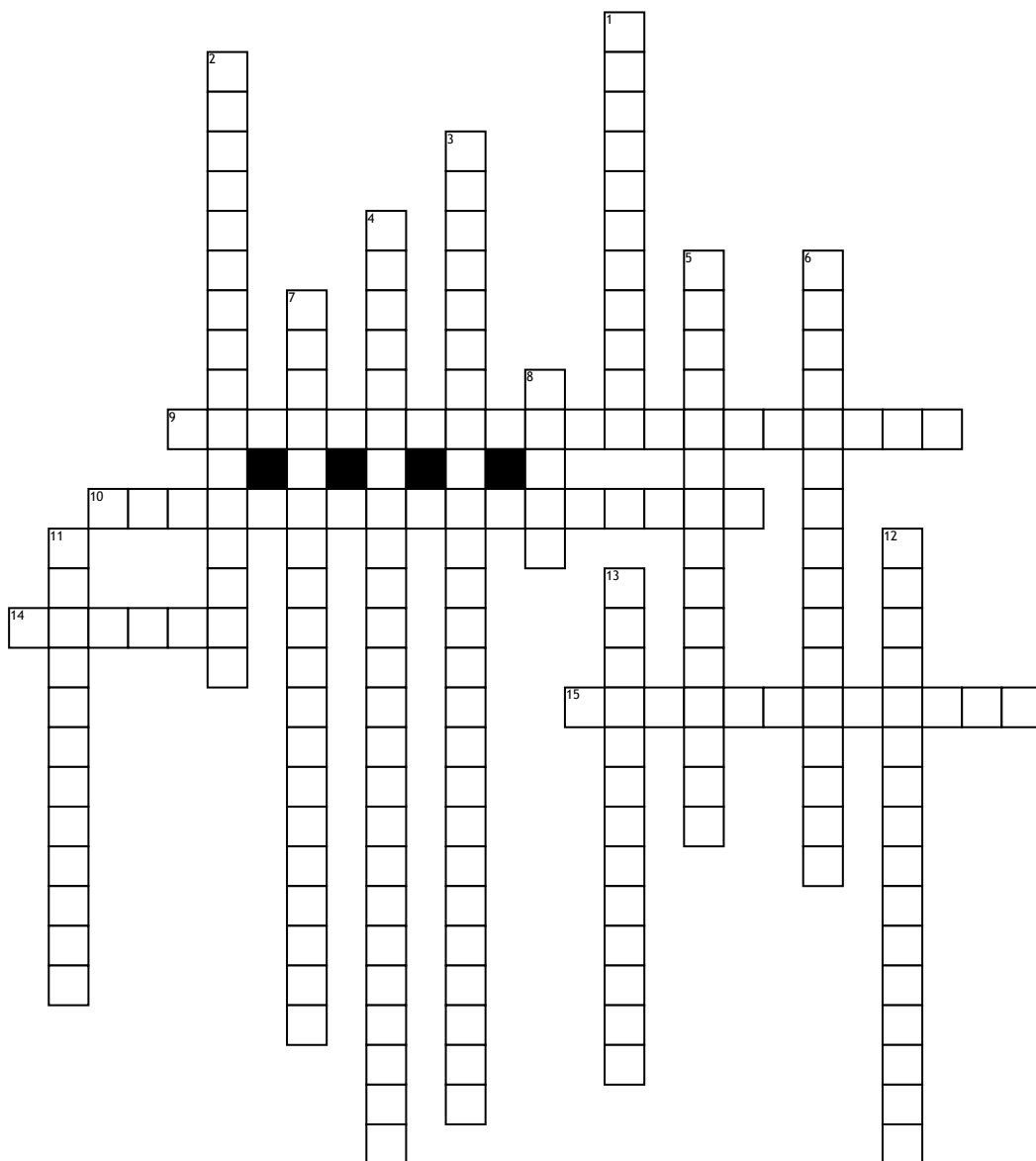


Name: _____

Date: _____

math



Across

9. Equations in which variable expressions occur as exponents
10. When a quantity increases by the same factor over equal intervals of time
14. The set of values of the independent variable(s) for which a function or relation is defined. Typically, this is the set of x-values that give rise to real y-values.
15. All numbers (not zero) raised to the zero power equal to one

Down

1. When multiplying, and the bases are the same, ADD the exponents.
2. A negative exponent tells you that the factor is wrong side of the fraction bar. (x is not zero)
3. A function of the form $y=a(1+r)^t$, where $a > 0$ and $r > 0$
4. A function of the form $y=a(1-r)^t$, where $a > 0$ and $0 < r < 1$
5. When raising a product to a power, EACH factor gets raised to the new power.

6. When raising a quotient to a power, BOTH top and bottom get raised to the new power.
7. A nonlinear function of the form $y=ab^2$, where $a \neq 0$, $b \neq 1$, and $b > 0$.
8. The difference between the lowest and highest value
11. When dividing, and the bases are the same, SUBTRACT the exponents. (top exponent subtract bottom exponent)
12. When a quantity decreases by the same factor over equal intervals of time
13. When raising a power to a power, MULTIPLY the exponents.