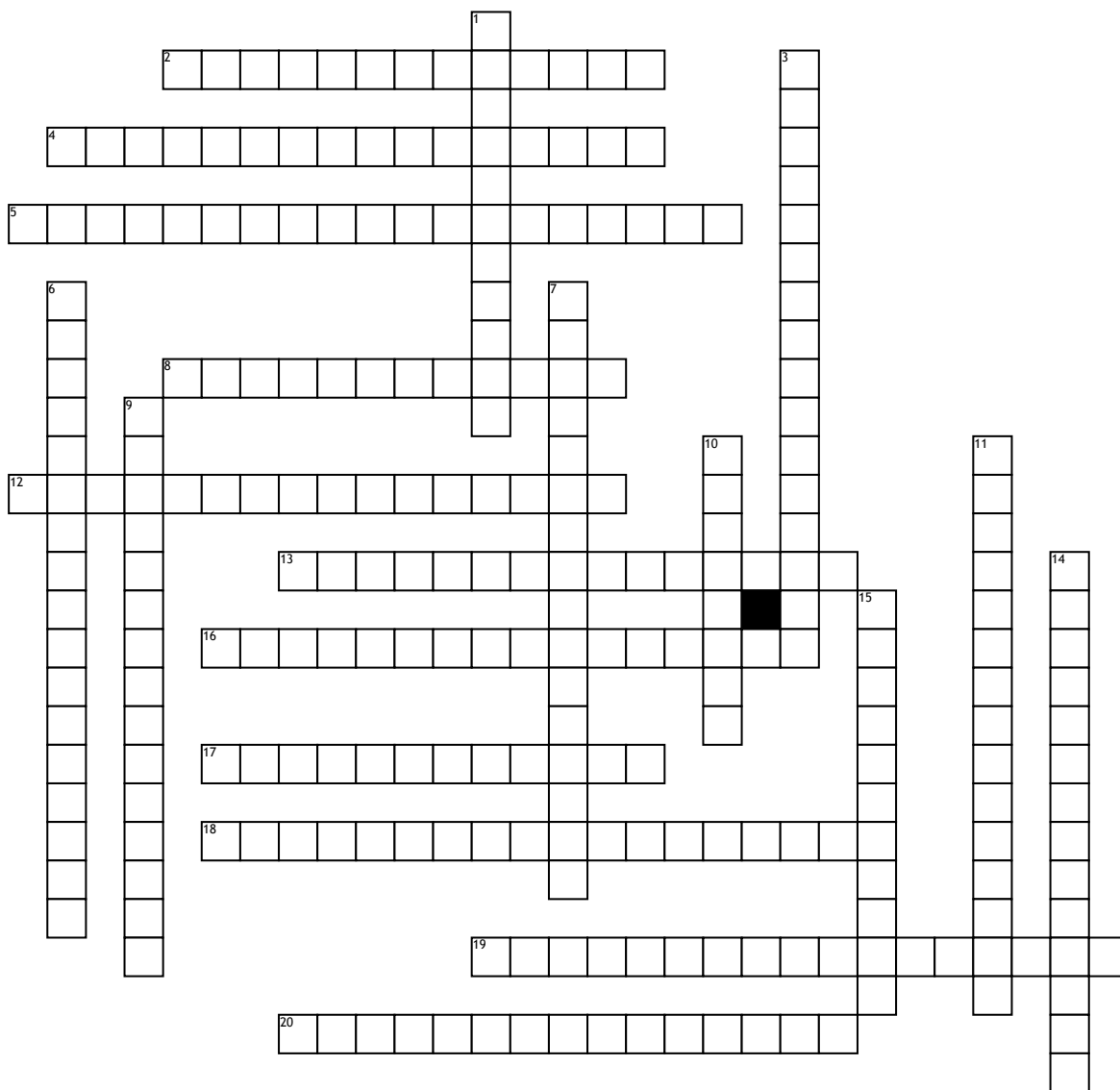


Name: _____

Date: _____

Logarithmic



Across

2. $b^x = e^x(\ln b)$
 4. $\log_b M = \log M / \log_a B$
 5. The function $f(x) = a^x$ is a real number
 8. $KT = \ln 2$ or $K = \ln 2 / T$
 12. $a^x = a^y \leftrightarrow x = y$
 13. $\log_a A^x = x$
 16. $A(t) = P(1 + r/n)^{nt}$
 17. $\log_a M^p = p \log_a M$

18. Use pencil over graph and if there are two point touching it is not right

19. $P(t) = P_0 e^{kt}$, $k > 0$
 20. $\log_a a = 1$

Down

1. $\log_a M = \log_a N \leftrightarrow M = N$
 3. when interest is paid on interest
 6. base e or \ln

7. P_0 is invested in a savings account at interest rate k is

9. $\log_a M/N = \log_a M - \log_a N$

10. A logarithm is a

11. moving around the first and second coordinate of each ordered pair

14. different input and a different output/ same input and same output

15. $\log_a MN = \log_a M + \log_a N$