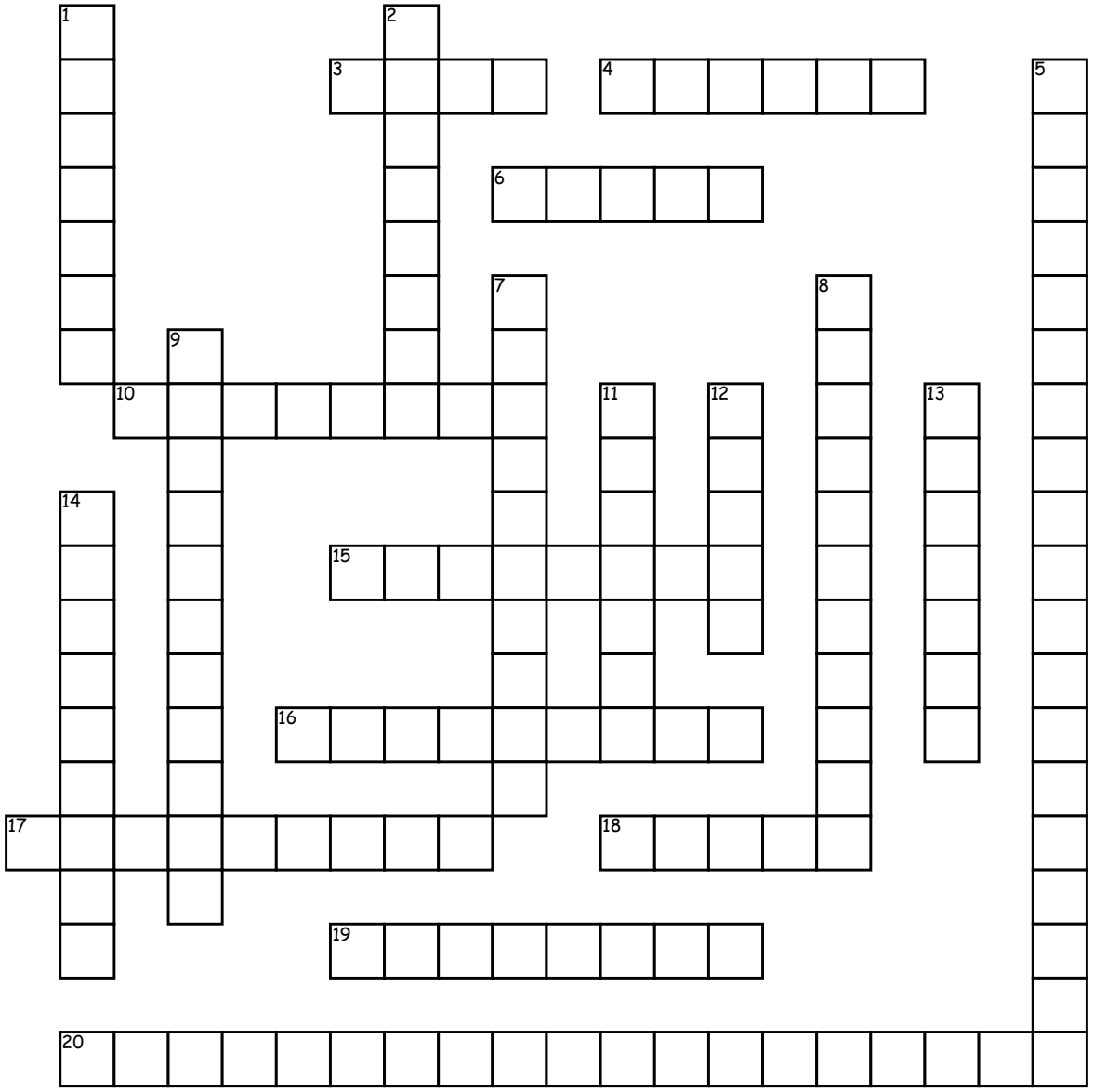
Name: _____ Date: _____

Desi & Hali's Exponential & Logarithmic Crossword



Across

3. In the equation f(x)=b^x, what does b stand for?

4. Will be represented by a positive exponent.

6. Will be represented by a negative exponent.

10. In the equation f(x)=b^x, what does x stand for?

15. You can never have a _____ base in a log, nor can you have a log to a _____ power.

16. A logarithm to the base of 10.

17. an exponential function written in its inverse form.

18. a number that describes both the direction and the steepness of the line. Often denoted by the letter n.

19. The log of a _____ is equal to the difference of the logs of the numerator and denominator

20. An equation with logs in it.

Down

1. it means 'opposite.' Logs are the _____ form of Exponential equations/expressions.

2. After each period of time, there is half of the material left as before. Can be shown with exponential decay.

5. An equation with exponents in it.

7. ln stands for...

8. represented by e.

9. opposite of logarithm.

11. Many people mistakenly call this a 'square root' symbol, and many times it is used to determine the square root of a number. However, it can also be used to describe a cube root, a fourth root or higher.

12. The log of a _____ is equal to the power times the log of the base.

13. The log of a _____ is equal to the sum of the log of the first base and the log of the second base

14. The line which a graph never crosses.