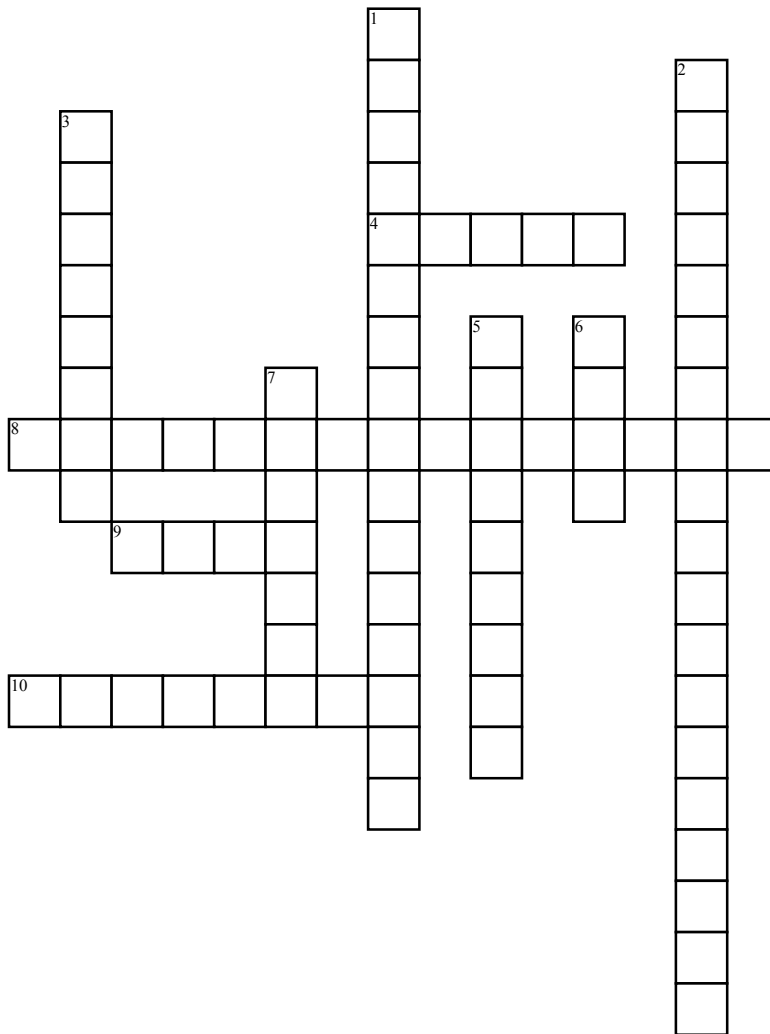


# CROSSWORD AND THE CLUES



## Across

4. The difference between the lowest and highest numbers.

8. The logarithm with base 10 is called the \_\_\_\_\_.

9. An exponential function is the function of the form  $f(x) = b^x$ ,  $b > 0$ ,  $b \neq 1$  where  $b$  is called the \_\_\_\_\_.

10. A number says how many times to use that number in a multiplication.

## Down

1. The logarithm with base  $e$  is called the \_\_\_\_\_.

## Word Bank

COMMON LOGARITHM

BASE

LOGARITHMIC FUNCTION

AXIS

RANGE

EXPONENT

NATURAL LOGARITHM

QUADRATIC

INVERSE

FUNCTION

2. A \_\_\_\_\_ with base  $b$  is the function of the form  $y = \log_b x$ ,  $x > 0$ ,  $b > 0$ ,  $b \neq 1$  where the equations  $y = \log_b x$  and  $x = b^y$  are equivalent.

3. A graph such that every  $x$  in the domain is mapped to exactly one  $y$ -value.

5.  $g(x)$  is a \_\_\_\_\_ function.

6. Also known as the axis of symmetry.

7. The function obtained by switching the  $x$ - and  $y$ -variables in a function