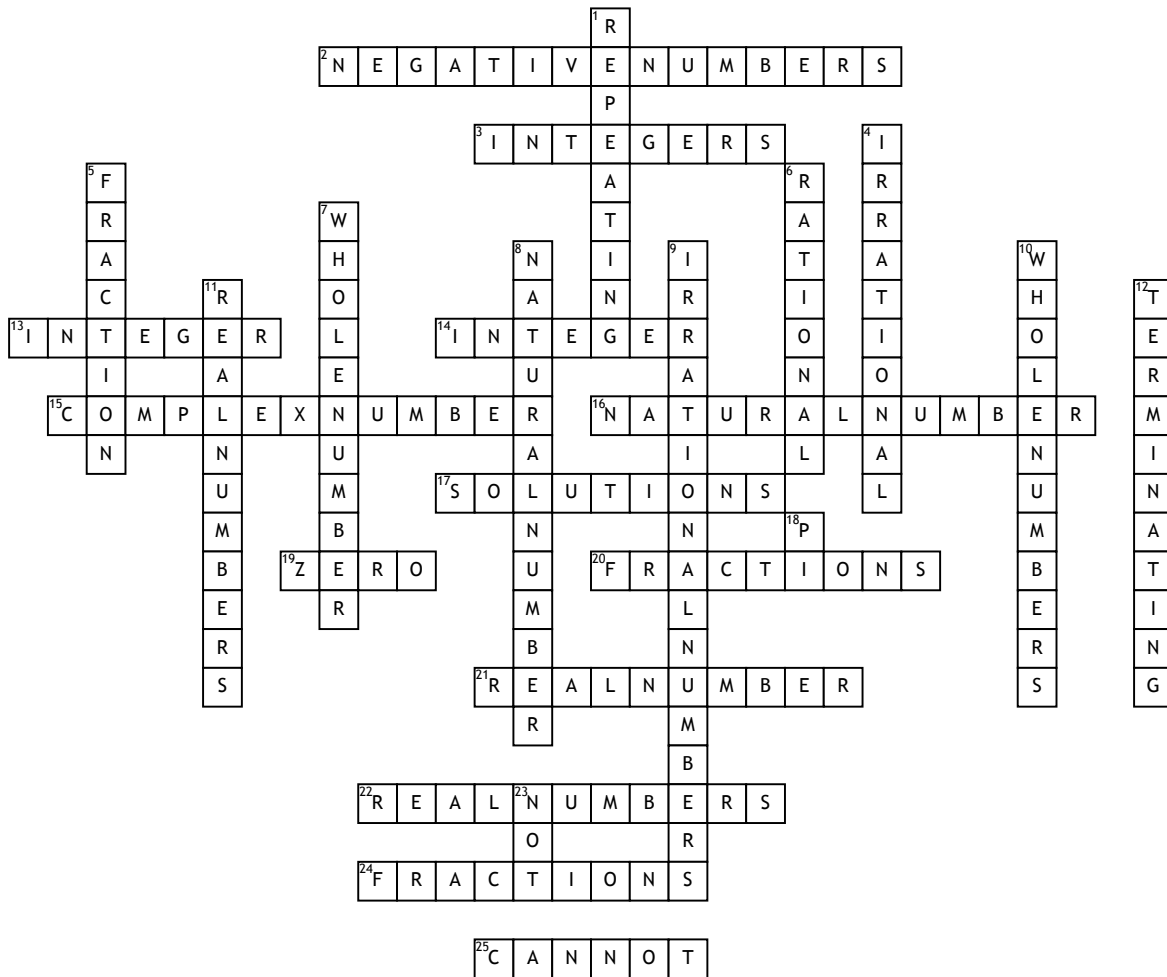# The Classification of Numbers

Across

2. the difference between whole numbers and integers are the

3. _____= Whole numbers + the negative of the whole numbers

13. a whole number; a number that is not a fraction

14. -1/3 = -0.333333333 is not an _____

15. a number that can be expressed in the form a + bi, where a and b are real numbers and i is the imaginary unit, that satisfies the equation i2 = −1. In this expression, a is the real part and b is the imaginary part of the complex number.

16. the positive integers (whole numbers) 1, 2, 3, etc., and sometimes zero as well.

17. The difference between complex numbers and real numbers is that complex numbers give _____ for the following expressions and more!

19. the only difference between natural numbers and whole numbers is the_____

20. All integers are _____

21. The type of number we normally use, such as 1, 15.82, −0.1, 3/4, etc. Positive or negative, large or small, whole numbers or decimal numbers are all Real Numbers.

22. _____ = rational numbers + irrational numbers

24. Among the different types of numbers, _____ is the hardest one to understand

25. Irrational numbers are numbers that _____ be written as a fraction

Down

1. 1/3 = 0.3333333 and 0.3333333 is a _____ decimal

4. (of a number, quantity, or expression) not expressible as a ratio of two integers, and having an infinite and nonrecurring expansion when expressed as a decimal. Examples of irrational numbers are the number π and the square root of 2.

5. a numerical quantity that is not a whole number (e.g., 1/2, 0.5).

6. (of a number, quantity, or expression) expressible, or containing quantities that are expressible, as a ratio of whole numbers. When expressed as a decimal, a rational number has a finite or recurring expansion.

7. a number without fractions; an integer.

8. √(9) is a _____ because √(9) = 3

9. _____ are neither repeating decimals nor terminating decimals

10. _____= Natural numbers + zero

11. the opposite of complex numbers are_____

12. Fractions can be written as a _____ decimal or a repeating decemal

18. _____ = 3.14..., 2.224879566117426874, √(7)

23. _____ all fractions are integers