Math vocabulary

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Vocabulary
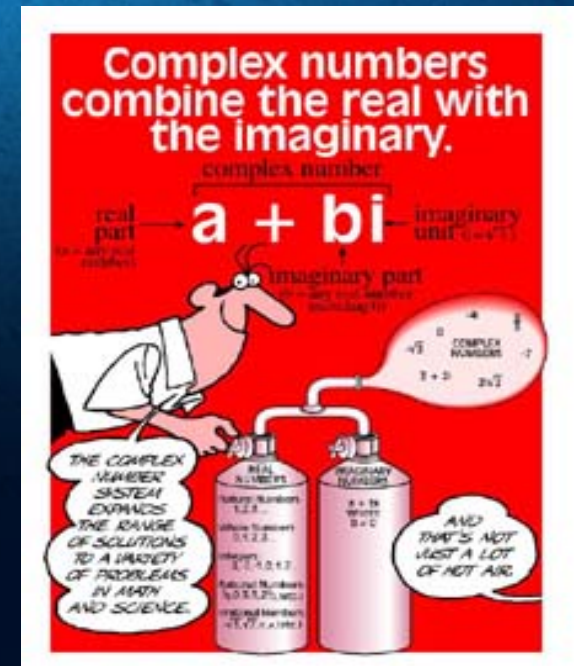
Rational Numbers

Number that can be expressed by a ratio of two integers

$$\frac{5}{7} = \frac{1}{2} + \frac{1}{6} + \frac{1}{21}$$

Complex Numbers

Mathematical expression (a + bi) in which a and b are real numbers and i^2 is -1

Complex numbers combine the real with the imaginary.
complex number
real part → a + bi ← imaginary unit
imaginary part

THE COMPLEX NUMBER SYSTEM EXPANDS THE RANGE OF SOLUTIONS TO A VARIETY OF PROBLEMS IN MATH AND SCIENCE.

AND THAT'S NOT JUST A LOT OF HOT AIR.

Math vocabulary

Irrational numbers

A number that cannot be exactly expressed by a ratio of two integers

π

imaginary numbers

A complex number having its real part equal to zero.

$i = \sqrt{-1}$

Math Vocabulary
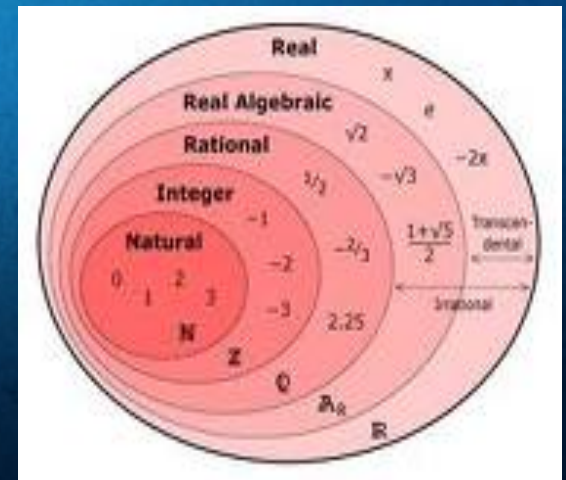
whole numbers

One of the positive integers or zero.
A number that can be written as a terminating or non-terminating decimal, can be written as rational or irrational.

real numbers

0, 1, 2 ....

Math Vocabulary

counting numbers

Whole numbers.

1,2,3.....

intergers

one of the positive or negative numbers

5,6...

Math Vocabulary

polynomial   monomial or sum of monomials

$$x^2 + 7x - 3$$
$$4a^3 + 7a^2 + a$$
$$nm^2 - m$$
$$3x - 2$$
$$5$$

monomial   constants and variables
muliplied together

$$8x$$

Math Vocabulary

Zero and One as exponents

If one was the exponent the base doesnt change. If zero is the exponent the power is one

$$b^1=b \quad 39^1=39$$
$$b^0=1 \quad 39^0=1$$

Negative exponents

If the exponent is negative take the reciprocal of the power.

$$b^{-1}= 1/b^n \text{ or}$$
$$1/b^{-m}= b^m$$

Math Vocabulary

Power to a power | Keep the base and multiply the exponent | $(b^n)^m = b^{n*m}$

Product of powers | Keep the base add the exponent | $b^n * b^m = b^{n+m}$

Math Vocabulary

Quotient of powers	Keep the base subtract the exponent	$b^n/b^m = b^{n-m}$
Roots as powers	We can write the inverse of an exponentas multiplicative inverse of the power	

Math Vocabulary

Like Term

Term with the same variable and power.

$$2x + 5x + 9 = 30$$
$$7x + 9 = 30$$
$$-9 = -9$$
$$7x = 21$$
$$\frac{7x}{7} = \frac{21}{7}$$
$$x = 3$$

Variable

A symbol to represent a value that changes.

$$x^2 x^3 = x^{2+3}$$
$$= x^5$$

Math Vocabulary

Additive Identity

A number you can add to any number to make it stay the same

0

Multiplicative Identity

The number that you can multiply by any number to make it stay the same

1

Math Vocabulary

Additive Inverse	A number that you add to a number to take it back to the identity	$30+ -30= 0$
Multiplicative Inverse	A number that you multiply to take it back to the identity	$30* 1/30=0$

Math Vocabulary

constant   a number that doesn't change

coefficient   a number multiplied by a variable

72a