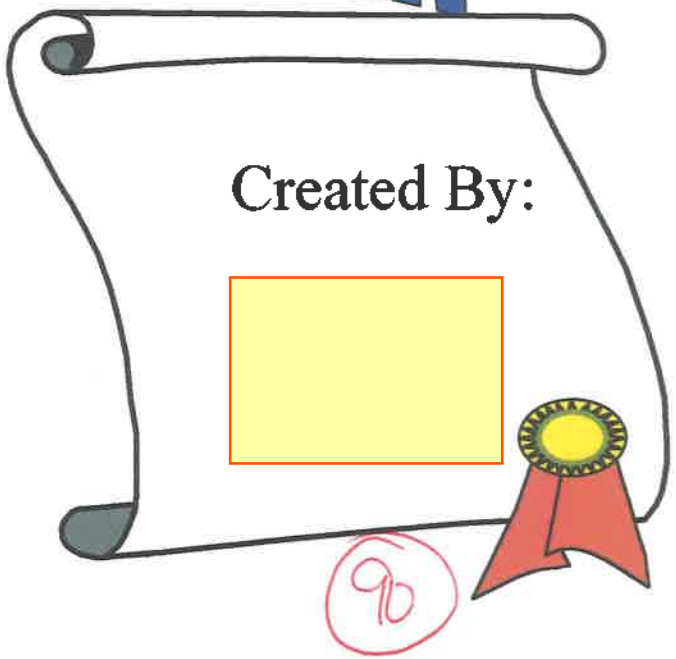
Mermaids Favorite Subject!!!!! Algebra

Algebra I for FRESMEN

Don't tolerate being called a stupid freshmen again, use the Mermaids Favorite Book.



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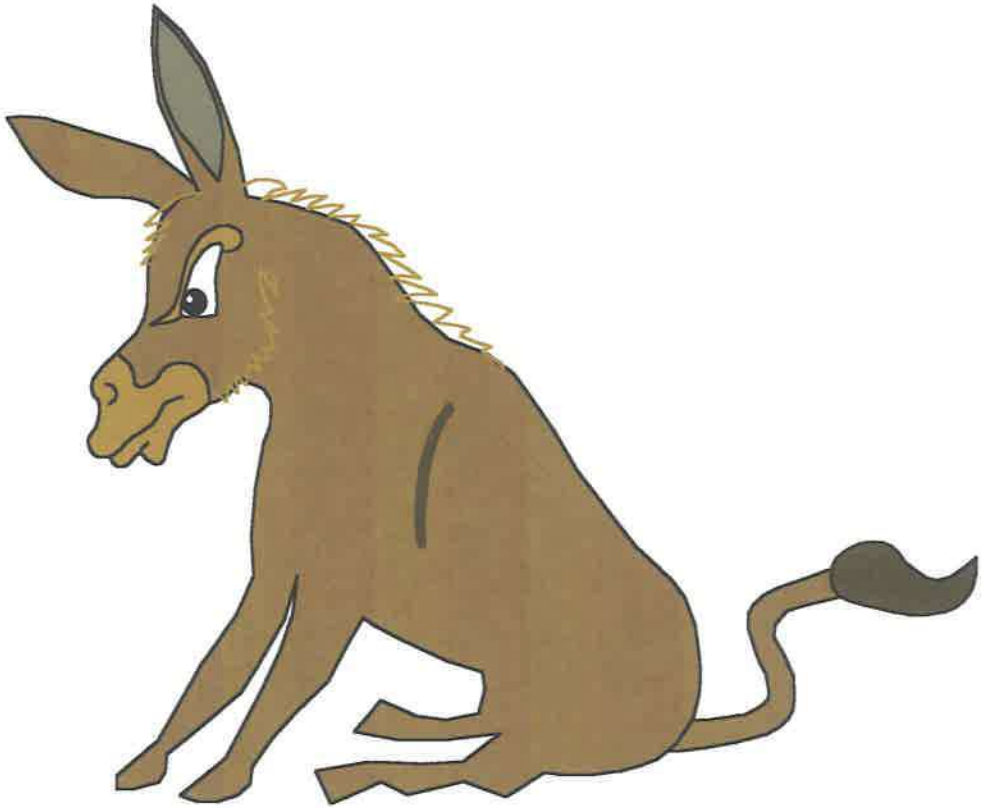
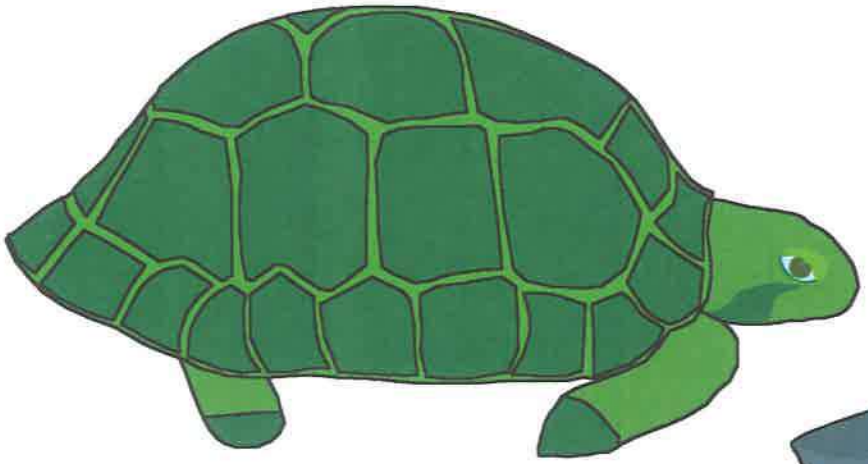
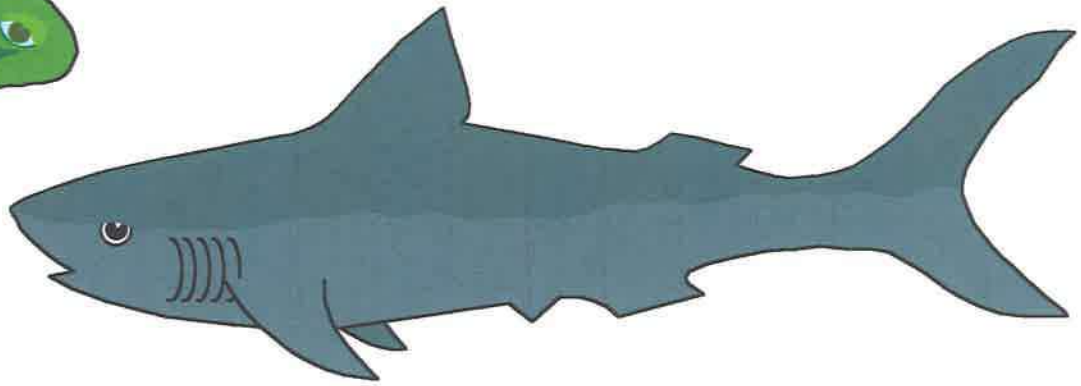
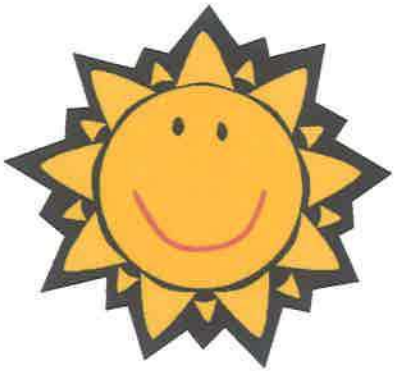








PEMDAS

PEMDAS is what we use to describe what operation we should do first when solving a problem.

Parenthesis

Exponent

Multiplication

Division

Addition

Subtraction

The P. In PEMDAS

When Solving a problem you always solve, starting in the PARENTHESIS.

(2+5)= Solve In the ( )

Answer Is: 7

The E. of PEMDAS

Exponent is the second thing to think about when solving Problems.

EXAMPLE:

$3^3 = 9$

$3^3 = 27$

The M,D,A,S are all simple things you should know.

Now You Have The key to Solving problems.

3(3)= 9

3/3=1

3+3=6

3-3=0

Solve in the parenthesis only:

3(4+7)=

(45-90)=

60(2)=

Solve for Exponents:

4^9 =

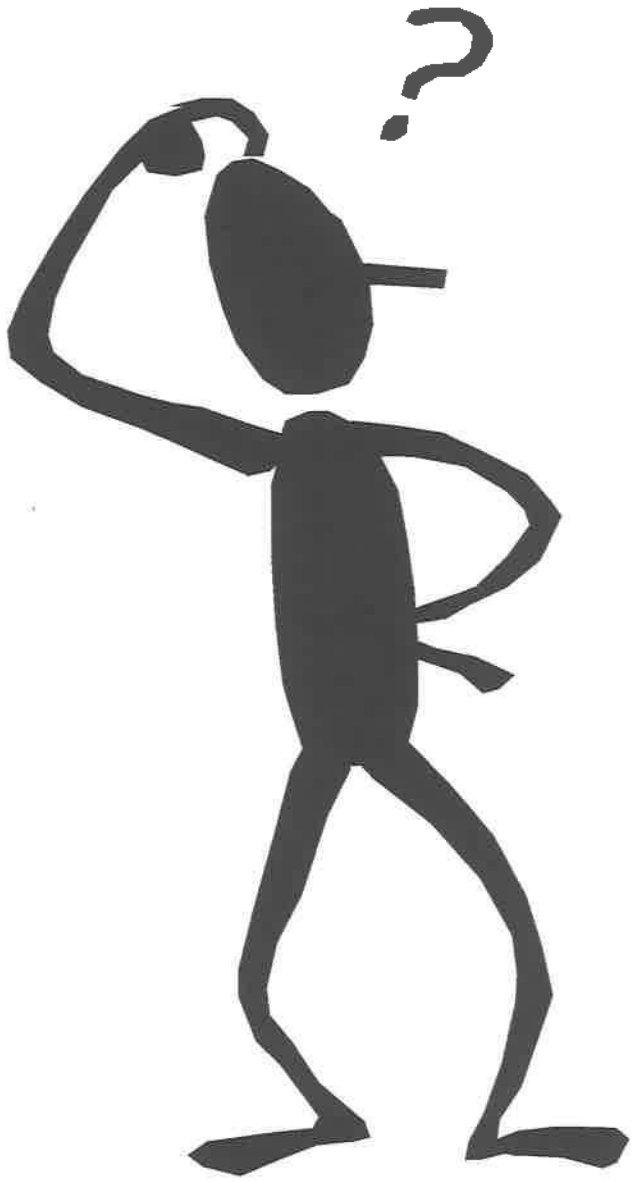
6^0 =

5^5 =

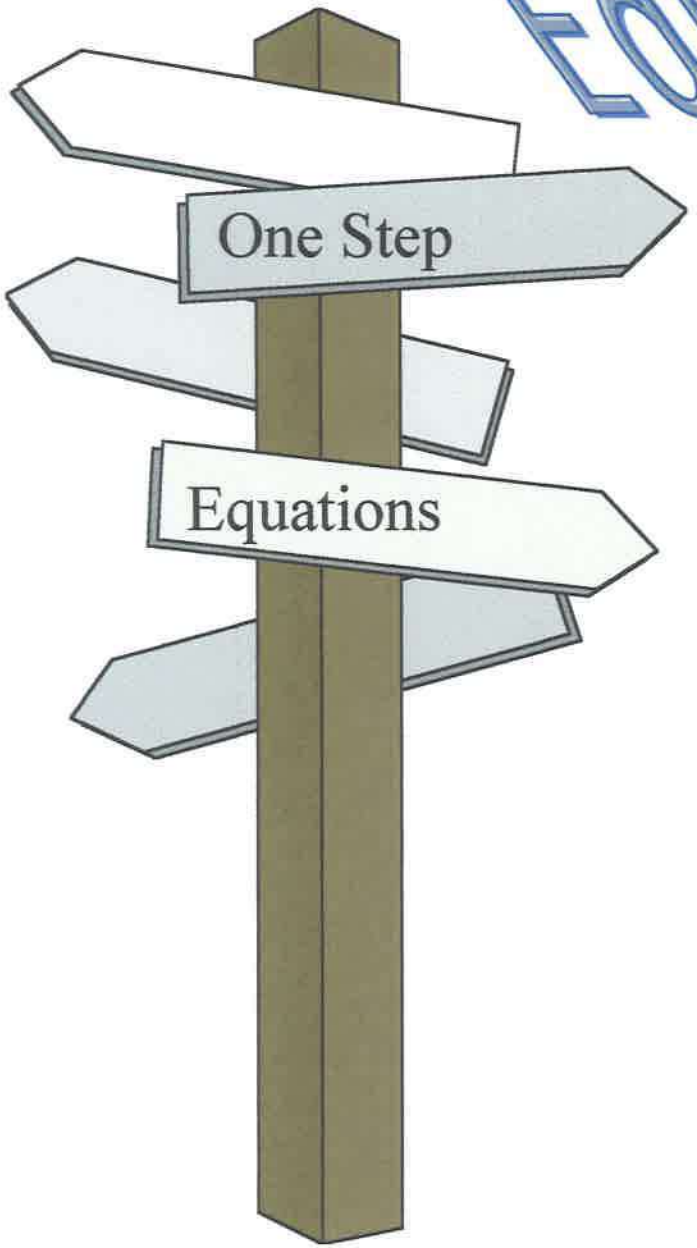
Solve the following problems:

$4+6(5/6+7-9)^4$=

$78+89^5-63(85)$=



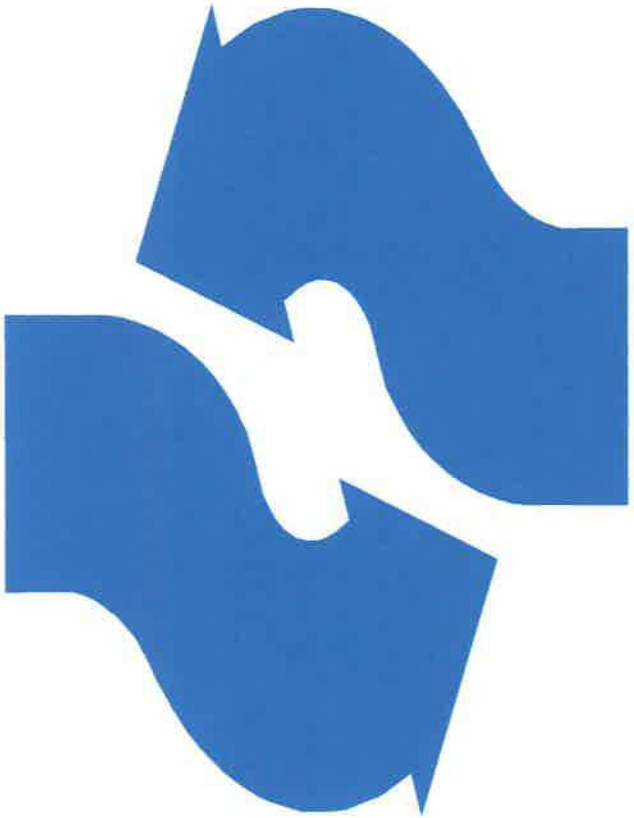
Equations



Equations have what is called a coefficient and a variable, what you solve for in an equation is the # that the variable equals to.

In an a equation you always treat both sides of it the same.

One Stepper



In an equation, to get the variable by itself, you have to do the opposite operation than the one is happening

3x=6

There is a multiplication going on so divide

3/3=6/3

Answer=2

Try 'em

$2x=6$

$25x=5$

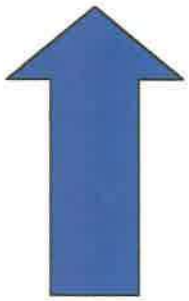
$10x=10$

$5x=10$

$6x=36$

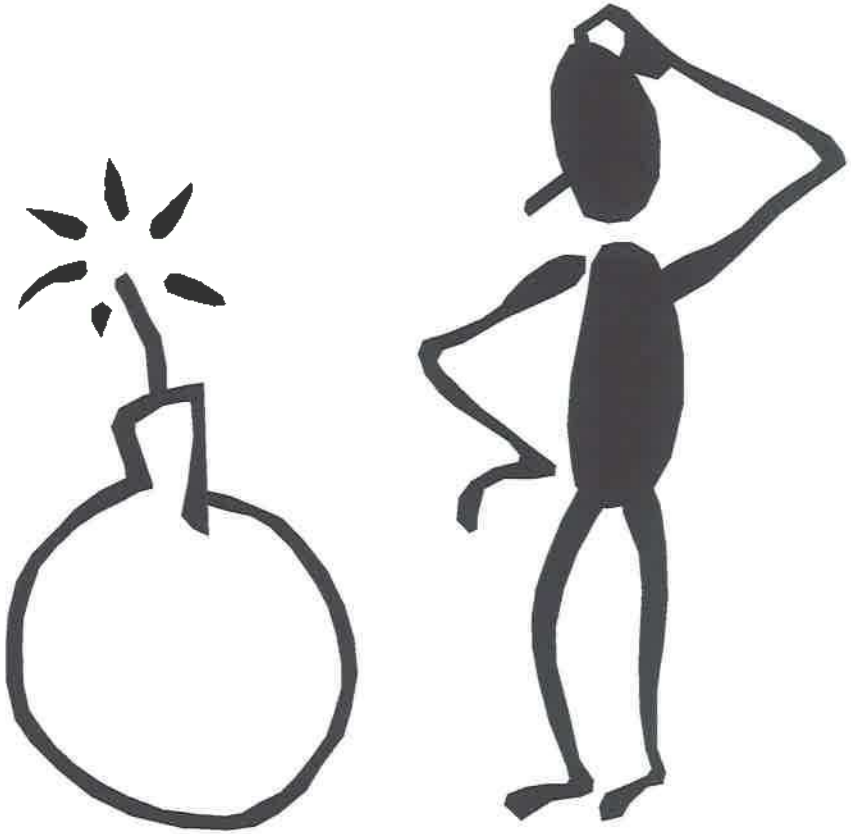
Two Steppers

To solve two equations is almost the same as to solve 1 step equations the only thing you have to consider is doing the addition or subtraction before you divide or multiply



Sound familiar?

PEMDAS?



Try These

$2x+5=10$

$3x-10=36$

$10x+10=10$

$15x+7=20$

Complex Equations

Equations with fractions are complex, also those with variables on both sides are complex.

When there are fractions in an equation you can either solve it with fractions or multiply the whole equation by the most common Denominator

For Example

1/3x+2/3=10

Most common denominator is 3

Try these

1/3+1/6x=10

1/8+1/9=20

There is more

Also equations like this are complex:

2x+20x=10x+2 

the way to solve is to get all variables together on each side. Then subtract the variable from both sides to unite it with its friend on the other side. Then solve as regular equation

EXAMPLE:

22x=10x+2

-10x -10x

12x=2

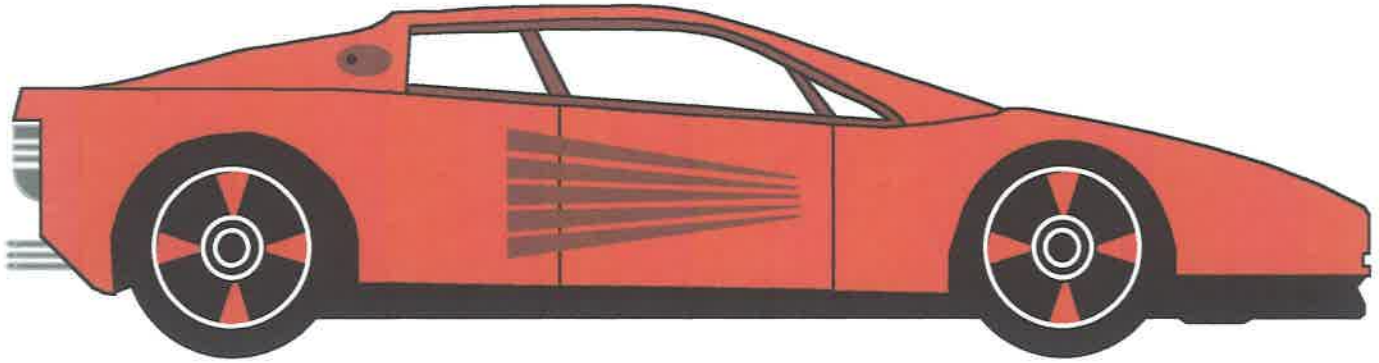
then proceede try to get the answer for this equation

Try These

$2x=4x+5+8$

$2x+3x-5x=10x+4$

$10x-10x+10x=10x+10x$



Polynomials

A polynomial is simply a number with a variable.

A polynomial looks like this.

$2x^3$

There are many Polynomials

Example:

1 term= Trinomial

2 terms= Binomial

3 terms= Trinomial and so on.

Identify the following:

2x+4x+67

2x

3x-6x-0

2x+2x