An Overview of Fundamental Algebra * Page 1

Grouping (Classify) & Order (Categorize) is very Important for Learning An Algebraic Term is a single unit without Addition or Subtraction!

Simplify Expressions & Formulas! Solve Equations & Inequalities!

Monomials Algebraic terms consisting of one: constants, variables, products, quotients!

 Constant
 Variable
 Product
 Quotient

 1,2,3,...
 a,b,c,...
 2a, 5b, 7c, ...
 e/3, g/6, m/8, ...

Binomials Algebraic expression consisting of two terms: Addition or Subtraction

 $\begin{array}{cccc} Constant \,\&\, Variable & Variable \,\&\, Variable \\ r+5 & s-6 & 3x+y & p-q/4 \end{array}$

Trinomials Algebraic expression consisting of three terms: Addition and/or Subtraction

Variables & Constants c + 3/b - a p - q + 4s Products & Quotients 3 - w + 8/y

Quadnomials Algebraic expression consisting of four terms: Addition and/or Subtraction

Variables & Constants Solution Constants & Variables s-2+z-7 Solution 8-e+4-g

Polynomials Algebraic expressions consisting of many terms: Addition and/or Subtraction

Monomials Binomials Trinomials Ouadnomials etc...

Algebra Expression Constants, Variables, Products, Quotients without Equal Sign

5+3x-2+x 4b-7+2b-3 a+3-c+b

Algebra Formula Symbolic Statement of a Relationship with an Equal Sign

D = RT $A = \frac{1}{2}BH$ I = PRT P = 2L + 2W

Algebra Equation Statement of Equality (=) among Algebraic Terms

2x-5=11 9-e/2=4 8+3w=17 7+5a=12

Algebra Inequality Statement of Inequality (<>, $\leq \geq$) among Algebraic Terms

9-3m < 5 8-s/2 > 6 $4+w \le 7$ $2d+1 \ge 5$

Problem Solving Abstract Words changed to Concrete (Visual) Images

A 12ft Bd. has 2 parts. One is twice the other! -----= = 12ft

Thomas E. Love Educational Consultant Copyright@2006