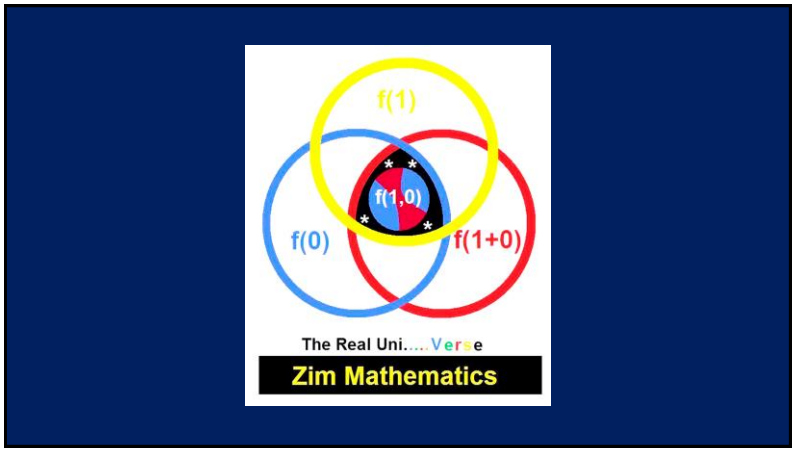
Zim Olson in
. . . Creative Mathematics

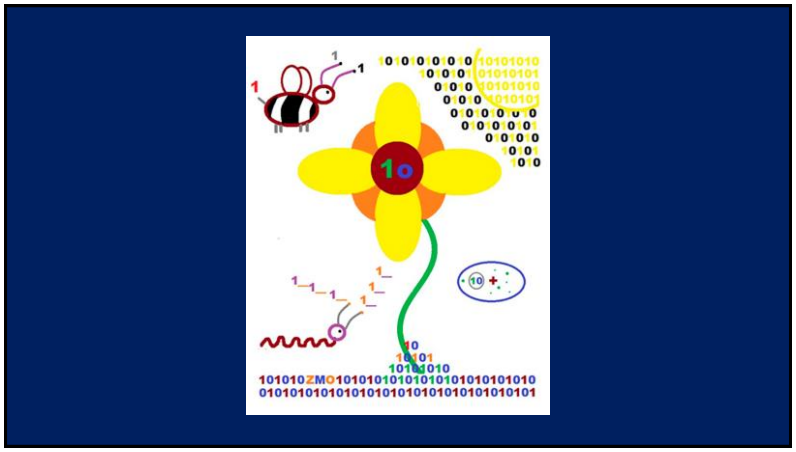
December 16, 2013

1

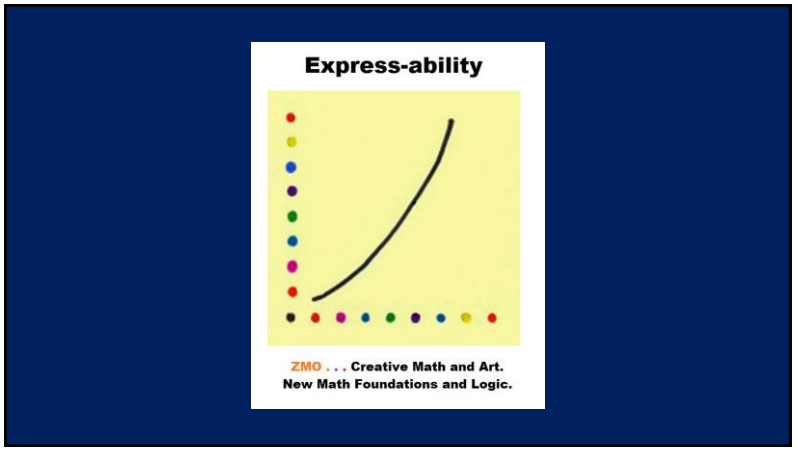
2



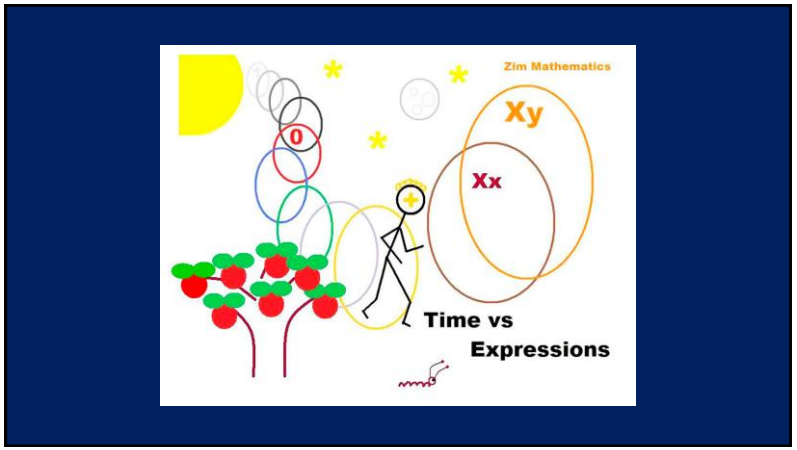
3



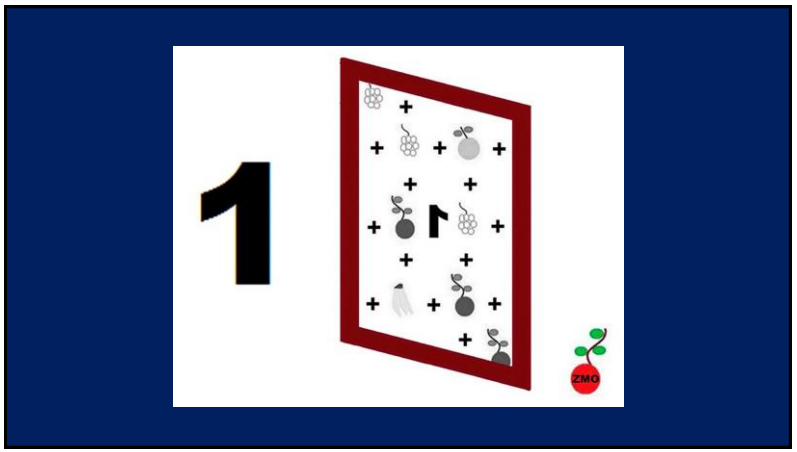
4


Express-ability
ZMO . . . Creative Math and Art.
New Math Foundations and Logic.

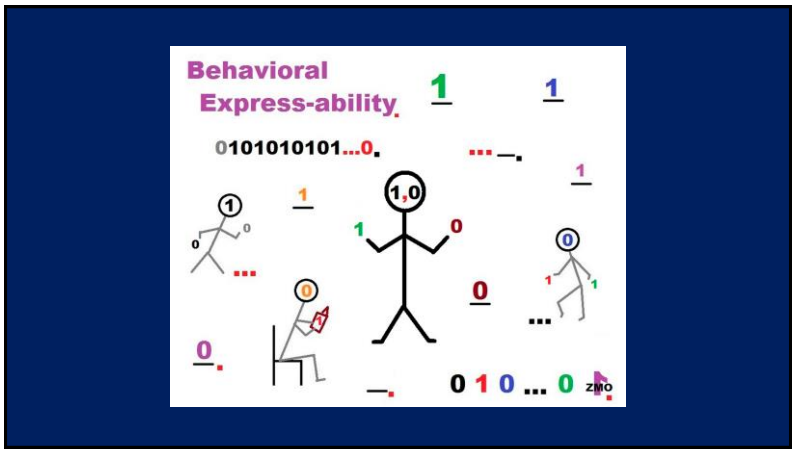
5


Zim Mathematics
Xy
Xx
0
Time vs
Expressions

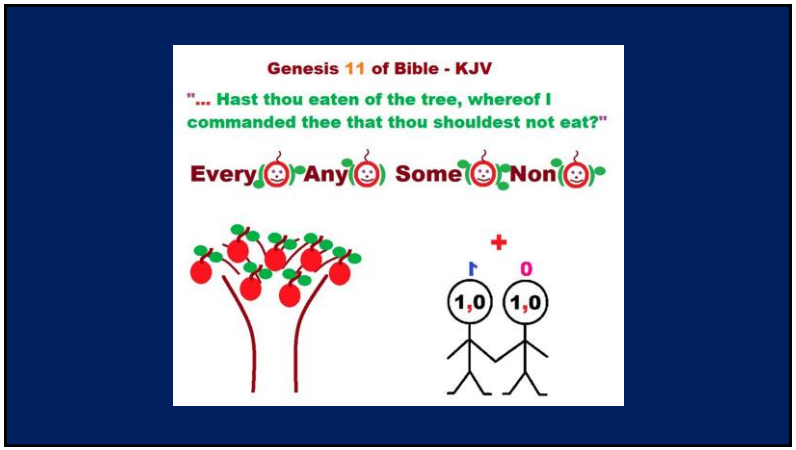
6


1
ZMO

7


Behavioral
Express-ability
1
1
0101010101...0.
1,0
0
0 1 0 ... 0
ZMO

8



9

10

System Concepts:

Four Behavioral Components for any existential system object. Every object has a functional context, Every(x); a System and no Sub System functionality Any(x) or f(x); A Non stated functionality, Non(x); and a resultant intersecting functionality, Some(x).

11

Historical: These concepts have been used throughout known History. These terms have been to a large extent implicit in our understanding; Theologies, knowledge, knowledge theory, law, business and economies. These and other understandings have laid claim to various portions of the systems and/or sub system paradigm.

12

Current Perspective on Systems Usage: Science utilizes the System functionality portion of this paradigm. Theologies still utilize this paradigm for a principal system, but do not agree on the content of the behavioral components. "Earthly" disciplines such as business, government, information science, utilize and recognize the behavioral components but have not come to terms on their existential basis.

13

Systems and/or Sub Systems as a Dominant Mathematical Paradigm: Zim Mathematics describes every object as possessing these behavioral components, including operations, numeric, unknown objects, and qualitative objects and/or objects. And that every of these object(s) can be expressed as a System and/or Sub System with varying existential results. Physical, qualitative, time attributes, illness, death are simply a partial system expression.

14

Origin of System Components and Expression Dynamics

f(1) = + - / × = > f(0) = + - / × = >
f(1+0) = + - / × = > f(1,0) = + - / ×

15

Giving this tenet below for any object expressed as a complete System or Sub System.

f(1) = f(0) = f(1+0) = f(1,0)

Unknown operations as complete Systems are said to be also applicable with these numerical values. These expressions are develop-able and reducible within open domain and principal logic.

16

17

Principal Expression and Outline and Construct Source

Every(_)Any(_)Some(_)Non(_)(_) = (__,__,...__)
Every(_)Any(_)Some(_)Non(_)(_) = (__,__)
Every(_)Any(_)Some(_)Non(_)(_) = (__)

18

Pseudo Expression and Outline and Construct Source

Every(_)Any(_)Some(_)Non(_)(__,__ ... __) =__.
Every(_)Any(_)Some(_)Non(_)(__,__) = __.
Every(_)Any(_)Some(_)Non(_)(__) = __.

19

Outline of Expression Variations or Operational Expression Variations

Every(_)Any(_)Some(_)Non(_)
Every(X)Any(X)Some(X)Non(X)
Every(W)Any(X)Some(Y)Non(Z)

20

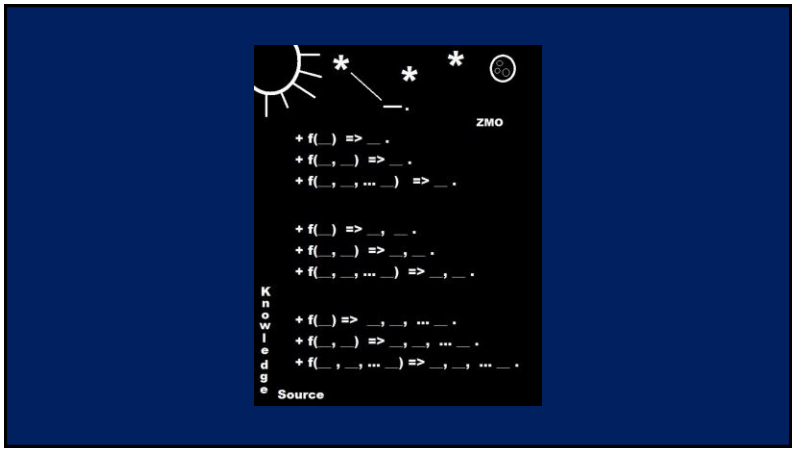
This gives the following available Pseudo Object and/or Principal Expression Object(s)

$X;X_X;X_Y;X_1;X_0;X_{1,0};\ X_{1+0};$ B; C; D; 1; 0; 1+0 ; 1,0 ; A-Z ; = ; ≠ ; + ; - ; ÷ ; × ; __; __, __; __, __, … __; N; 1-N; 1-∞; and ; or ; and/or ; …

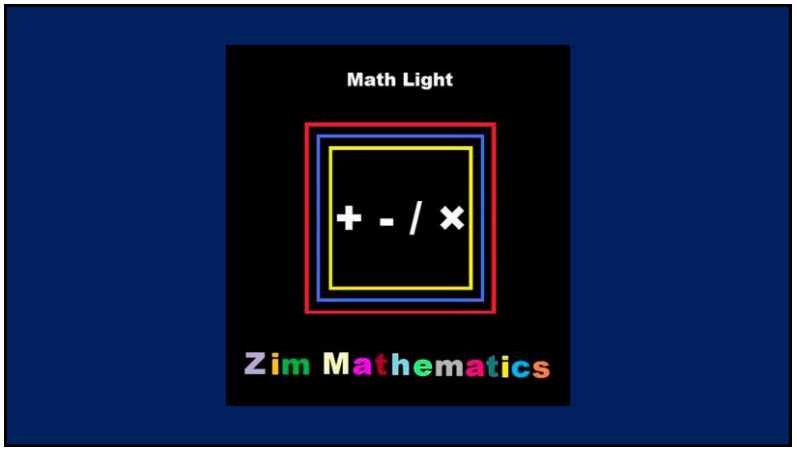
21

22

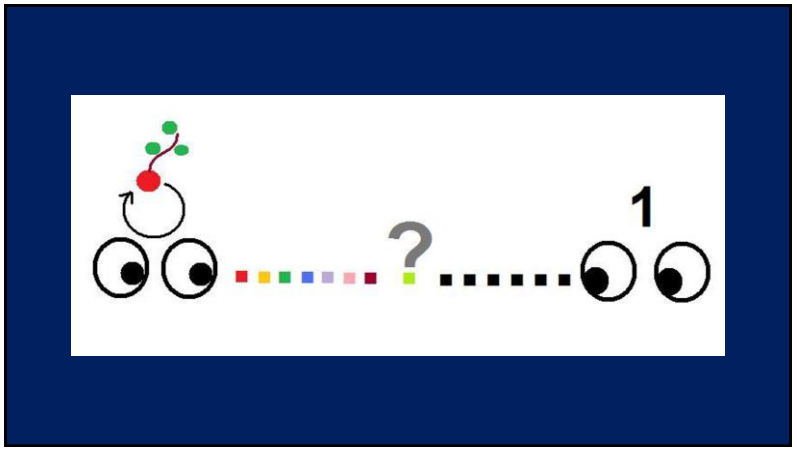
23



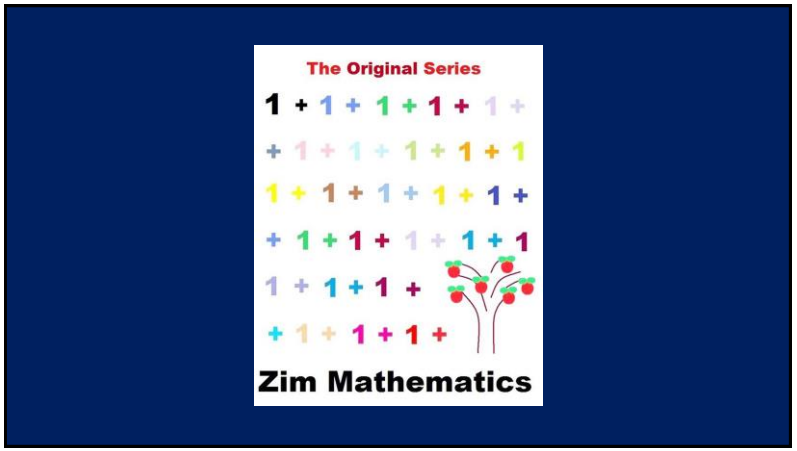
24


Math Light
+ - / ×
Zim Mathematics

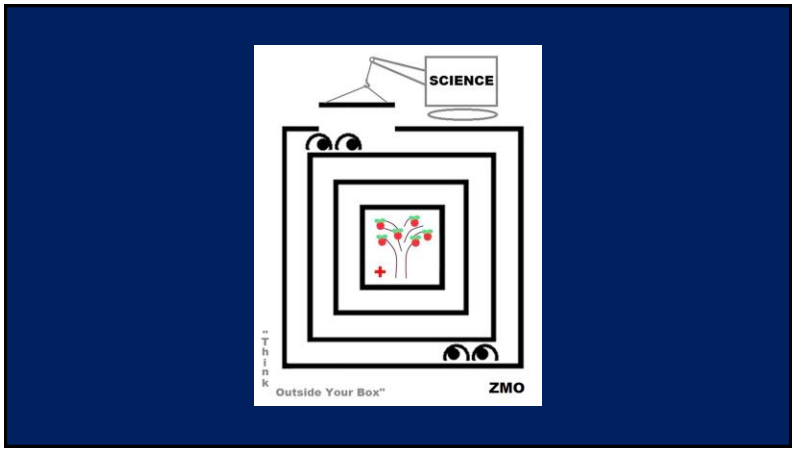
25


?
1

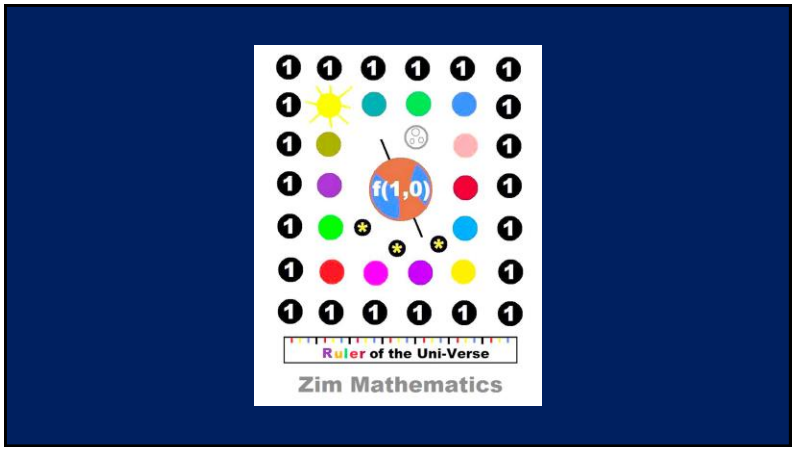
26


The Original Series
Zim Mathematics

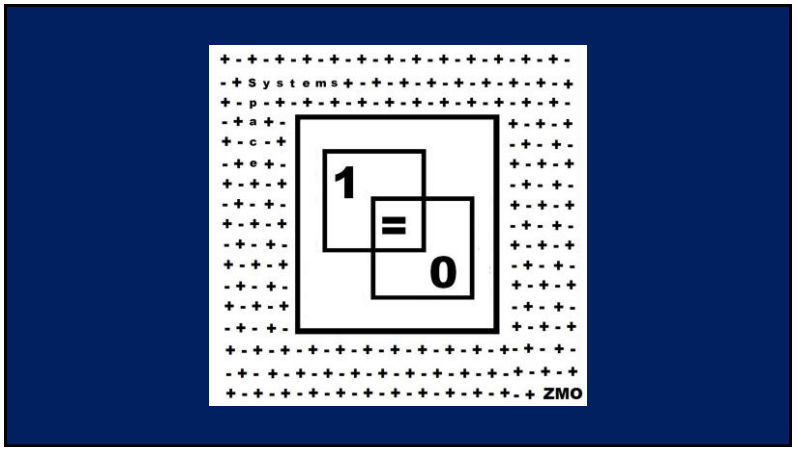
27


SCIENCE
Outside Your Box"
ZMO

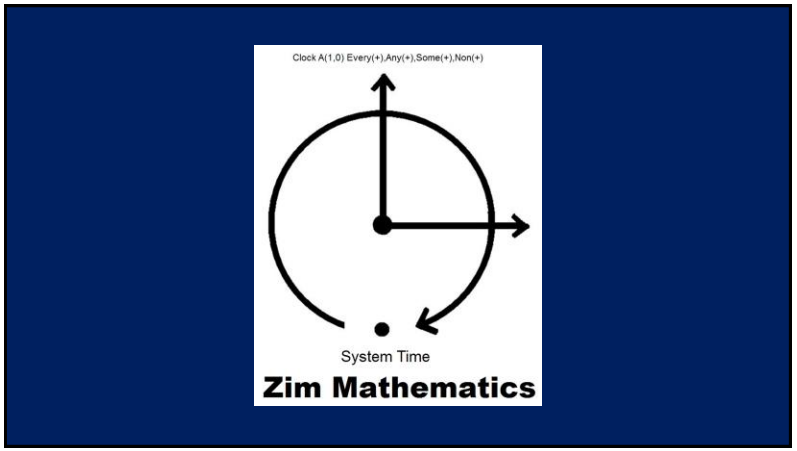
28


f(1,0)
Ruler of the Uni-Verse
Zim Mathematics

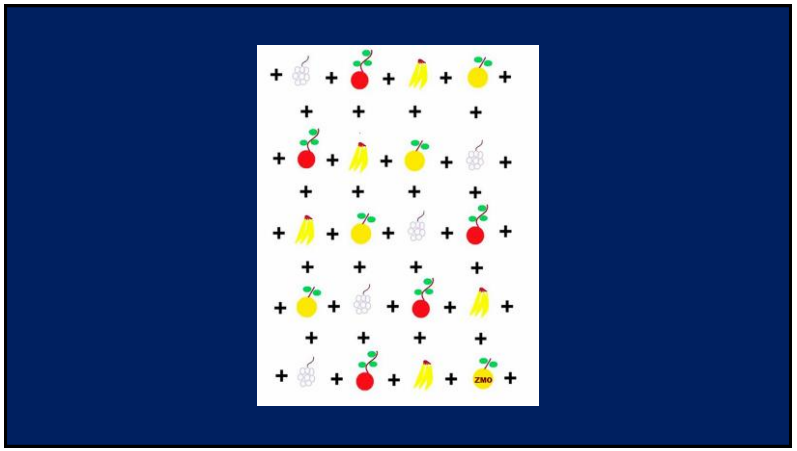
29


Systems
1
=
0
ZMO

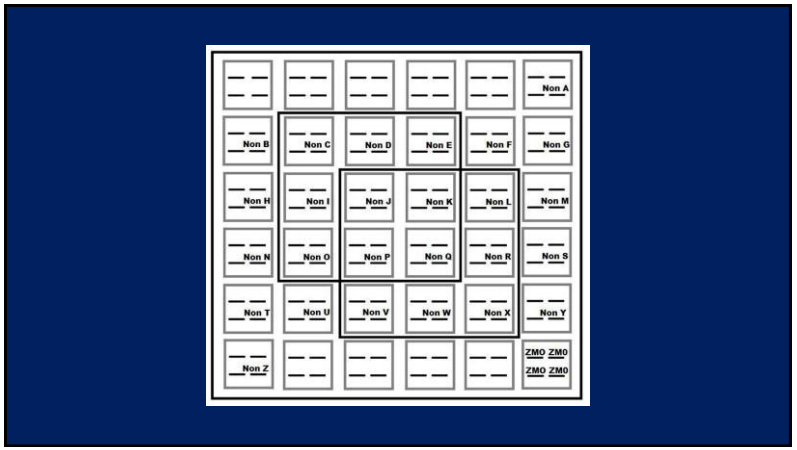
30


Clock A(1,0) Every(+),Any(+),Some(+),Non(+)
System Time
Zim Mathematics

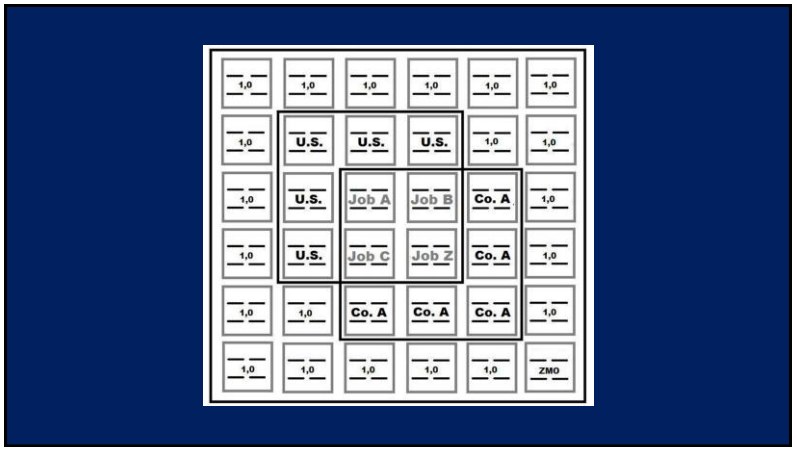
31


ZMO

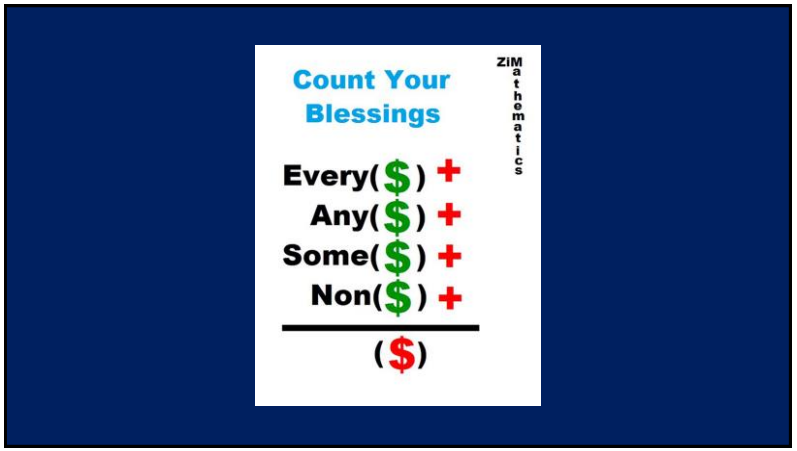
32


Non A
Non B
Non C
Non D
Non E
Non F
Non G
Non H
Non I
Non J
Non K
Non L
Non M
Non N
Non O
Non P
Non Q
Non R
Non S
Non T
Non U
Non V
Non W
Non X
Non Y
Non Z
ZMO ZMO
ZMO ZMO

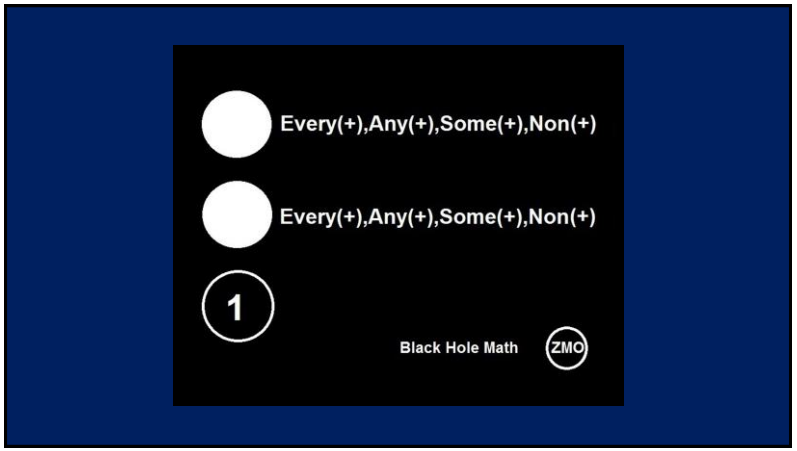
33


1,0
U.S.
Job A
Job B
Co. A
Job C
Job Z
ZMO

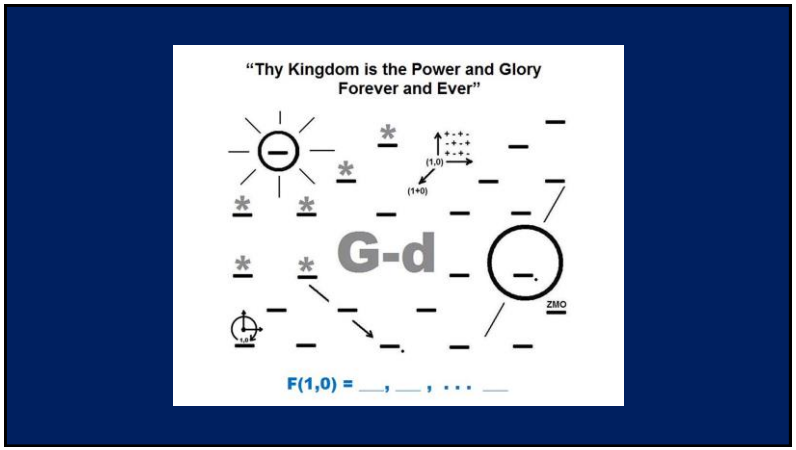
34


Count Your Blessings
ZiMathematics
Every($) +
Any($) +
Some($) +
Non($) +
($)

35


Every(+),Any(+),Some(+),Non(+)
Every(+),Any(+),Some(+),Non(+)
1
Black Hole Math
ZMO

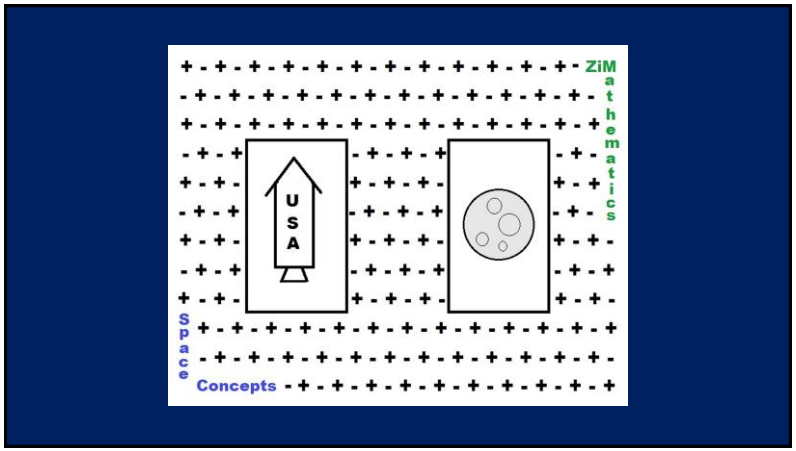
36


"Thy Kingdom is the Power and Glory
Forever and Ever"
G-d
F(1,0) = ___, ___, . . . ___

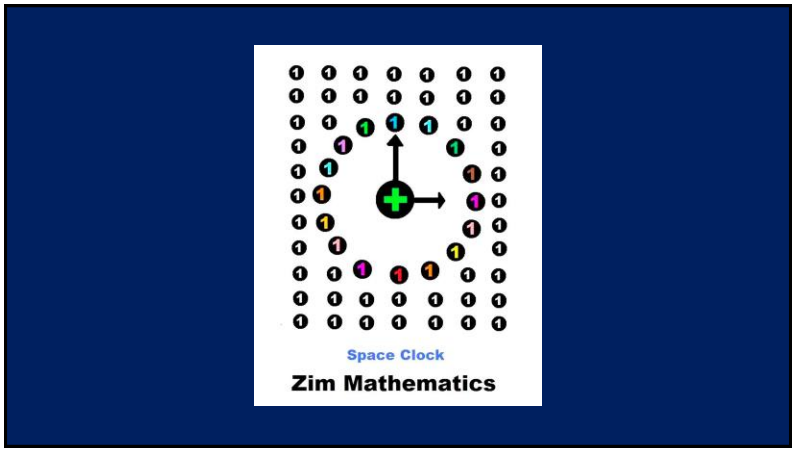
37


"Our Father who art in heaven
hallowed be thy name"
(1) + - × ÷ = (0) + - × ÷ =
(1+0) + - × ÷ = (1,0) + - × ÷
"Thy Kingdom come, Thy will be done
on earth as it is in heaven."
(1) +, -, ×, ÷ = (0) +, -,×, ÷ =
(1+0) +, -, ×, ÷ = (1,0) +, -, ×, ÷

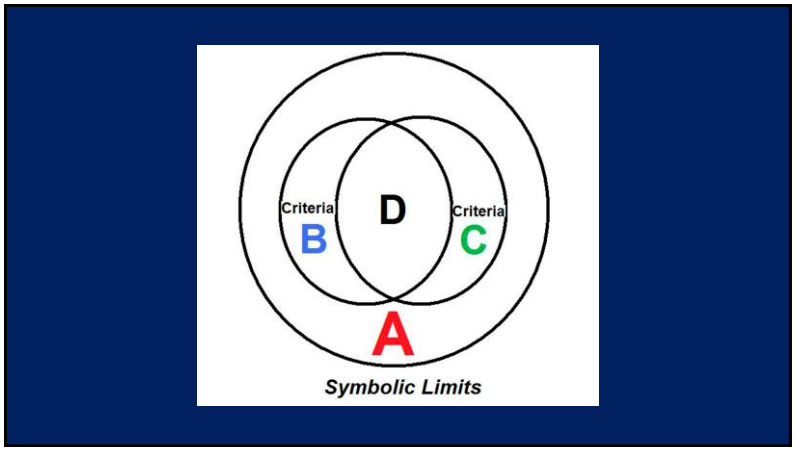
38


ZiMathematics
USA
Space
Concepts

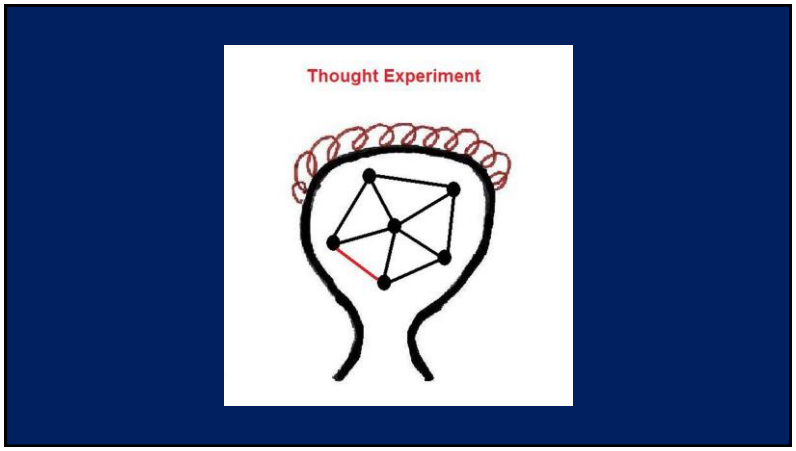
39


Space Clock
Zim Mathematics

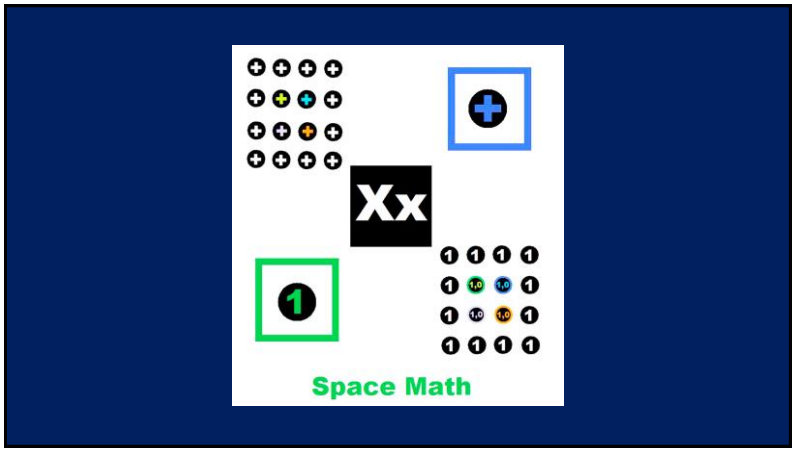
40


Criteria
B
D
Criteria
C
A
Symbolic Limits

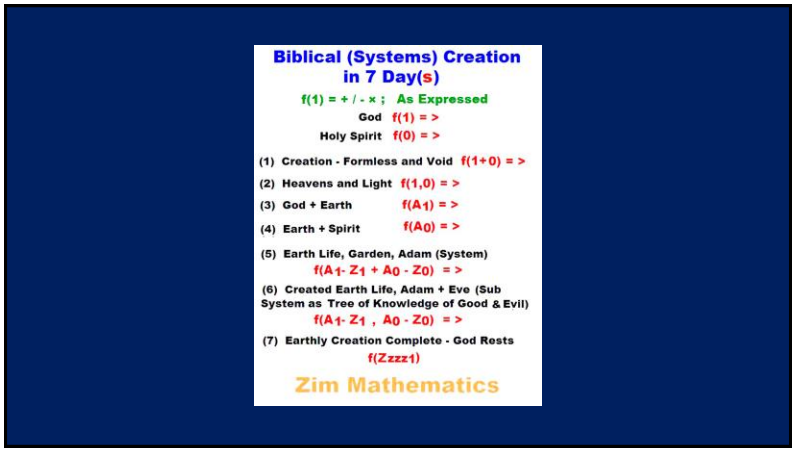
41


Thought Experiment

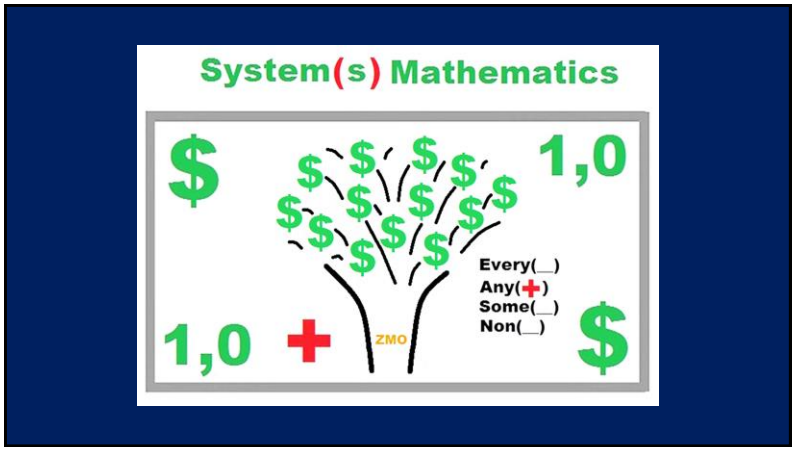
42


Xx
Space Math

43


Biblical (Systems) Creation in 7 Day(s)
f(1) = + / - x ; As Expressed
God f(1) = >
Holy Spirit f(0) = >
(1) Creation - Formless and Void f(1+0) = >
(2) Heavens and Light f(1,0) = >
(3) God + Earth f(A1) = >
(4) Earth + Spirit f(A0) = >
(5) Earth Life, Garden, Adam (System)
f(A1- Z1 + A0 - Z0) = >
(6) Created Earth Life, Adam + Eve (Sub System as Tree of Knowledge of Good & Evil)
f(A1- Z1 , A0 - Z0) = >
(7) Earthly Creation Complete - God Rests
f(Zzzz1)
Zim Mathematics

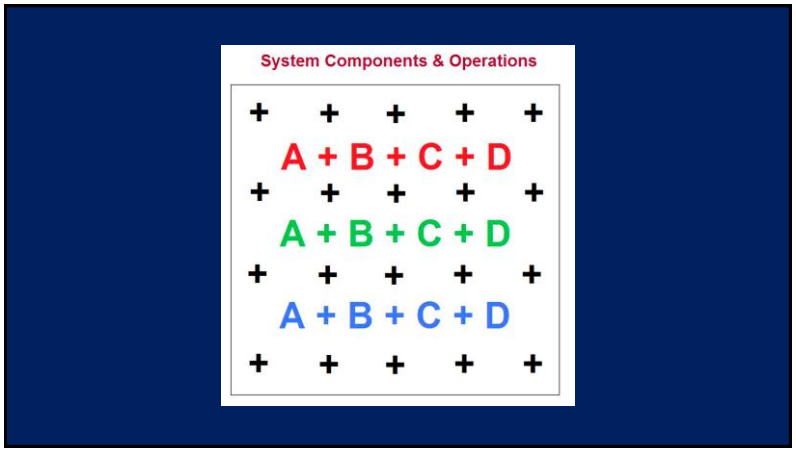
44


System(s) Mathematics
$
1,0
Every(_)
Any(+)
Some(_)
Non(_)
1,0
+
ZM0
$

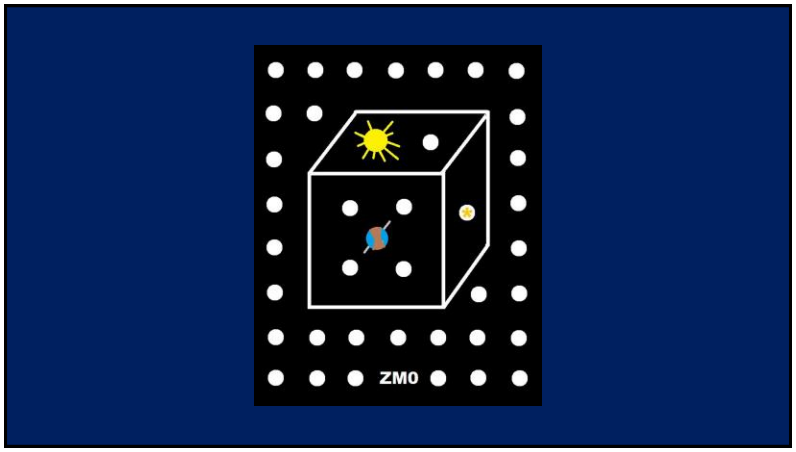
45


Search for Intelligent Life

46

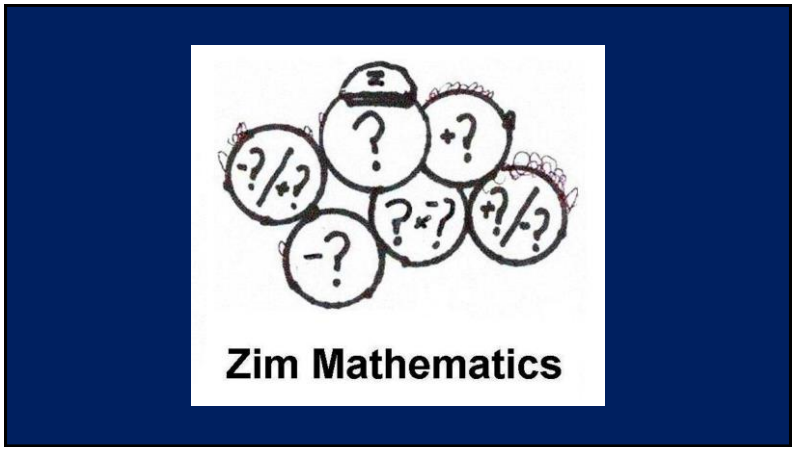

System Components & Operations
A + B + C + D
A + B + C + D
A + B + C + D

47


ZM0

48

49



50

51