

On the Subject of Not Emoji Math

Math is easy. But is it?

Decipher the characters on the display into letters, unscramble the word, and find the unscrambled word in the list below.

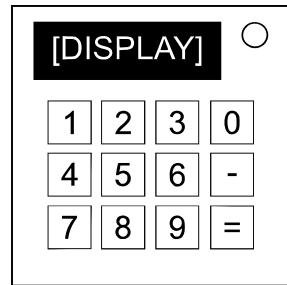
Each word has a corresponding number and each letter in the serial number corresponds to a function.

Apply each function from left to right to each successive value, starting with the number corresponding to the unscrambled displayed word.

Take the last four digits of the output of the last function. Each digit corresponds to a letter in the scrambled word on the display.

Rearrange the four digits into the positions that match the unscrambled word and remove any initial zeros. This is the code that must be entered into the module using the keypad.

Once a code is entered, press the equals button to submit it or the minus button to clear it.



APEX	ATOM	BITS	BURN	CHEW	COZY	DASH	DRUM	ECHO	EPIC
789	118	256	451	385	263	830	19	754	625
FIVE	FLUX	GNAW	GYRI	HAJI	HELM	IAMB	ITCH	JAWS	JUMP
551	121	790	986	214	403	25	709	187	129
KEYS	KNOT	LAZY	LIME	MUON	MYTH	NEXT	NOVA	OGRE	ONYX
866	439	56	711	592	39	678	237	470	95
PICK	POEM	QUAY	QUIZ	ROSE	RUBY	SNOW	SURF	TOMB	TWIN
268	359	961	110	271	399	612	89	834	252
UNDO	USER	VERB	VOID	WAVY	WRAP	YEAR	YUCK	ZERO	ZINC
26	717	410	1	339	285	21	144	999	654

Letter	Encoding	Function
A	:)	Add the number of characters in the encoded word.
B	=()	Multiply by two.
C	(:	Add the sum of the alphabetic positions of the letters in the serial number.
D)=	Add the sum of the numbers in the serial number.
E	:(Multiply by six minus the number of letters in the serial number.
F	=)	Add the sum of the alphabetic positions of the first letters of each indicator label.
G):	Add the first number in the serial number times ten to the power of three minus the number of applied functions.
H	(=	Multiply by the number of unapplied functions.
I	:	Take the difference between the input and ten times the initial value.
J	:	Add the number of distinct letters on the indicator labels.
K	=	Add the sum of the digits of the input.
L	=	Add the sum of the alphabetic positions of the last letters of each indicator label.
M	:-)	Add one thousand.
N	==-(Take the difference between the input and five thousand.
O	(-:	Shift the digits once to the right.
P)-=	Shift the digits once to the left.
Q	:-()	Add the square of the sum of the numbers in the serial number.
R	==)	Multiply by the digital root of the input.
S)-:	Reverse the digits of the input.
T	(--	Take the difference between the input and ten thousand.
U	:-	Arrange the digits of the input in ascending order.
V	:-	Arrange the digits of the input in descending order.
W	==	Arrange the digits of twice the input in ascending order.
X	-=	Revert to the initial value and add the number of applied functions.
Y	(:<	Add the initial value.
Z	>:)	If the input is even, divide it by two. Otherwise, triple the input and add one.