# On the Subject of Encrypted Equations

The module everyone hated the moment they saw what an "equation" looked like.

- This module contains a 12-button keypad, a large display containing an equation, and a clear and submit button above it.
- The equation has been encrypted in a way where shapes, letters, and symbols represent numbers and operations.
- Decrypt the equation, then solve it, rounding to the nearest thousandth if necessary.
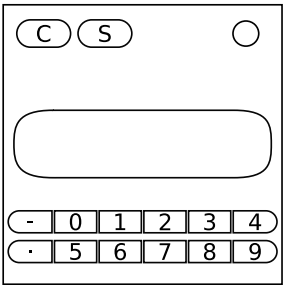
Section 1: Shapes

- Every shape translates to a number value.
- This is the starting value for determining what the value actually is.

Shape	Value	Shape	Value	Shape	Value	Shape	Value
△	0	⬡	5	♯	10	◇	35
□	1	○	6	+	15	▯	40
▭	2	⏢	7	○	20	✡	45
✕	3	⬠	8	▱	25	☆	50
▱	4	⬡	9	▽	30		100

Section 2: Letters/Symbols

- There will be a letter or symbol inside the shape.
- The letter/symbol translates to an operation and another value.
- Apply this to the value obtained from the shape.
- **Important:** Round to the nearest thousandth after calculating.

L/S	Value	L/S	Value	L/S	Value	L/S	Value
A	+1	F	÷2	#	+5	%	+10
B	+3	G	+2	H	x3	R	−5
C	−2	π	x1.5	O	−1	=	+4
D	−4	S	÷1.5	?	x10	/	x4
E	x2	N	−6	K	÷5	\	÷10

Section 3: Surrounding Symbols

- A symbol *may* surround the shape.
- This translates to another operation and value.
- Find the intersection between the symbol, and the compass direction the symbol is located in, on the table on the next page.
- No symbol = Skip this section.
- Apply this to the current value.
- **Important:** Round to the nearest thousandth after calculating.
- **Also important:** This is the final value unless something in Sect. 6 applies.
- Pictures of the symbols appear as if they are on the top of the symbol (North).
- Symbols are rotation-locked. Example: A horizontal line on the top of the symbol and a vertical line on the side of a symbol are both on the second row. A vertical line on the top of the symbol and a horizontal line on the side of a symbol are both on the third row.

	North	East	South	West
•	+1	-2	x3	+3
-	x1.5	÷5	-1	÷1.5
|	-4	+2	x2	x5
∘	+4	÷10	÷2	-3

Section 4: Operations

- The operations between numbers are encrypted as well.
- The circle next to each is for location reference.

+	○�މ	○⁻	○°	○Ꞌ
-	○ˌ	○₋	○8	○ﾅ
x	○⎮	○–	○ₒ	○ﾚ
÷	○⁝	○_	○0	○ſ
+	○⊢	○+	○˳	○ſ
-	○⊤	○╫	○⊐⊏	○ɿ
x	○⊣	○#	○⌐	○⌐
÷	○⊥	○‡	○⬭	○⌐

Section 5: Parentheses
- The parentheses encrypted just like everything else.
- Their appearance dictates their location.

Current Pair	Opposite Pair	Current Pair	Opposite Pair
⌐ ∟	⌐ ⌐	) (	( )
[ ]	⎓ ⎓	∟ ⌐	⌐ ⌐
▭	▭	⌐ ⌐ ∟ ∟	⌐ ∟ ⌐ ⌐

Section 6: Other
- An "I" in the top-right corner of the shape symbolizes that the final value must be inverted (multiplied by -1).
- An "A" in the top-right corner of the shape symbolizes that the final value must be the absolute value of the current value.
- An "S" in the top-right corner of the shape symbolizes that the final value must be squared.
- A "C" in the top-right corner of the shape symbolizes that the final value must be cubed.
- **Important:** Round to the nearest thousandth after calculating.

Section 7: Solving
- Round to the nearest thousandth after:
    - Calculating a shape/letter/symbol combination.
    - Finding the total of the pair inside the parentheses.
    - Calculating the final total.
- Type the final answer into the display using the 12-button keypad.
- When inputting, the display will change from the equation to your current input.
- Press the clear button ("C" button) to erase your current input and switch back to the equation.
- Press the submit button ("S" button) once you finish inputting your solution.
- Submitting a wrong solution will result in strikes.
- **If, by any chance, the answer is undefined, simply hit submit without entering anything.**