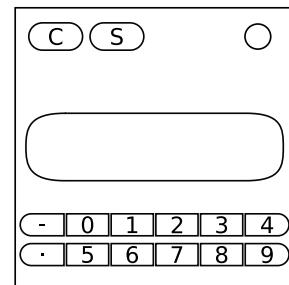


## On the Subject of Encrypted Equations

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.
- Important:** Any rounding should be done as commercial rounding.



### 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	×3	R	-5
C	-2	Π	×1.5	0	-1	=	+4
D	-4	S	÷1.5	?	×10	/	×4
E	×2	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	×3	+3
-	×1.5	÷5	-1	÷1.5
	-4	+2	×2	×5
◦	+4	÷10	÷2	-3

### Section 4: Operations

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

+	○	○-	○°	○↖
-	○	○-	○⋮	○↓
×	○	○-	○◦	○↙
÷	○	○_	○□	○↷
+	○↶	○+	○↶	○↶
-	○↶	○#	○⤒	○↖
×	○↶	○#	○⤓	○⤓
÷	○⊥	○≠	○⤕	○⤕

## Section 5: Parentheses

- The parentheses are 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.