

Mathematical Puzzle Programs



MaPP Challenge '18 - Gotta Solve 'Em All Code Sheet

Letter	Decimal	Binary	Morse Code	Braille	Pig Pen	ROT13
Α	1	00001	·	• •	١	N
В	2	00010		• •	⊔	0
С	3	00011		• •	L	D
D	4	00100		: •		Q
Е	5	00101			7	R
F	6	00110			□	S
G	7	00111			٦	Т
Н	8	01000		•	П	U
I	9	01001		•	Γ	V
J	10	01010	\)	• •	Ŀ	W
K	11	01011	->-	• •	Ŀ	X
L	12	01100		• •	Ŀ	Y
М	13	01101		• •	⊡	Z
N	14	01110		•	⊡	А
0	15	01111		•	⊡	В
Р	16	10000		• •	J	С
6	17	10001		• •	Π	D
R	18	10010		• •	Ŀ	Е
S	19	10011		•	V	F
Т	20	10100	_	• •	>	G
U	21	10101		• •	<	Н
V	22	10110		• •	\wedge	I
W	23	10111	·	• •	V	J
X	24	11000		• •	>	K
Υ	25	11001		• •	<	L
Z	26	11010		•	Α	М

MaPP

MAA MathFest 2018 - MaPP Challenge DEMO

Knot True

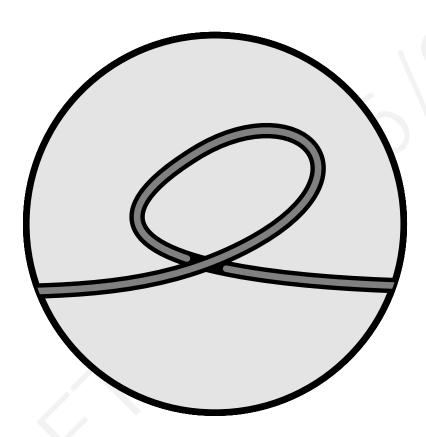
Tournament Results

	Ash	Brock	Cynthia	Drayden	Erika	Flannery
1st	0	Y	G	U	S	J
2nd	Q	С	M	V	А	X
3rd	F	Р	U	N		Е
4th		A	S	-	D	Т
5th	K	N	В	Z	Т	R
6th	Н	R	W	E	L	М



Knot True

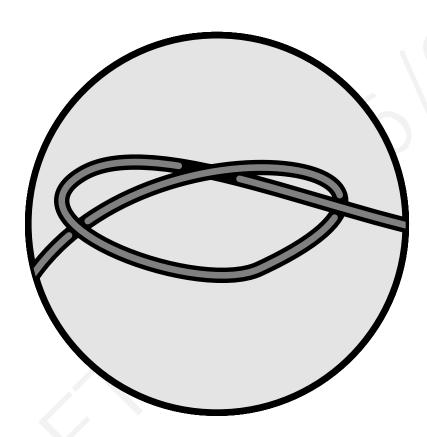
Ash's Trainer Badge





Knot True

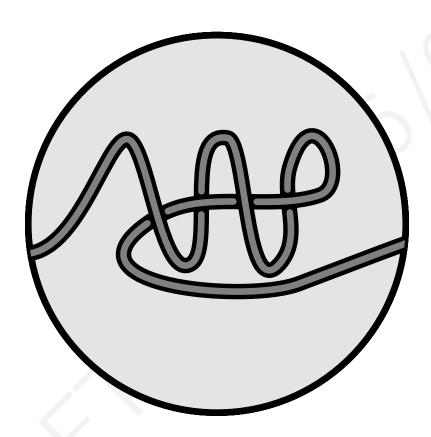
Brock's Trainer Badge





Knot True

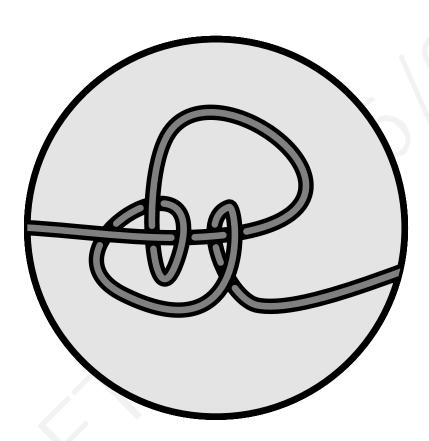
Cynthia's Trainer Badge





Knot True

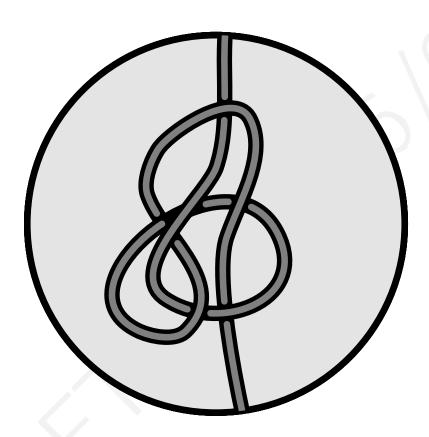
Drayden's Trainer Badge





Knot True

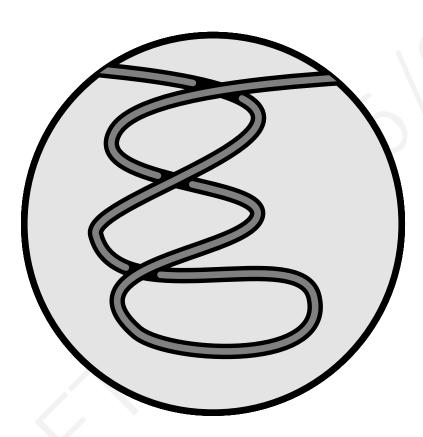
Erika's Trainer Badge





Knot True

Flannery's Trainer Badge





Warehouse 1:

• Stack either 2 boxes or 6 boxes against a wall.

• Stack 12 boxes against a wall such that every row contains an odd number.

• Stack 8 boxes against a wall such that every row contains less than eight.

• Stack 0, 1, 2, 3, 4 or 5 boxes against a wall.

• Stack 4 boxes against a wall.

Warehouse 2:

• Stack 8 boxes against a wall such that every row contains less than seven.

• Stack 13 boxes against a wall such that every row has less boxes than the row below it.

- Stack 42 boxes against a wall in a single row.
- Stack either 1 box or 12 boxes such that every row must have a unique number of boxes.



The Nickname Rater

Popular Nicknames

MANKAY

EEVOL

AERODYCTL

It seems there's no way to construct this name using the given rules...

ULTRAMON

NOHTYP

EWE

 $\begin{array}{c} A \ (\overline{\text{Rule 0}}) \\ \rightarrow \text{E (Rule 5)} \\ \rightarrow \text{EEEEEEEE (Rule 2, three times)} \\ \rightarrow \text{EEEEEEEEW (Rule 1)} \\ \rightarrow \text{EWEWW (Rule 3, twice)} \\ \rightarrow \text{EWE (Rule 4)} \end{array}$

OMASTARE

SLIQUID

PARACENT

VOLTEON

ICHU

DRAGONAT

GENGASKHAN

KADABARA

RAGMAR



Cross Product Odd Scroll

J C BRKYW R Κ L QG C J T Α Н D O A R R ΥΙ Ν D OHUE ΕО MGX В В G O A E C N Α T Ρ Ζ Q C Q P Н T Z Т A P O F Ε MAGQT M W T M G C Α QK Z D G G L В S F Н Ε A D ΝE U D X LAQ WKZUAY E F J W Ν

Lightning \times Plant

Undead \times Flame Aqua \times Ordinary

Flame × Magic



Blind Luck

Strange Tilework

