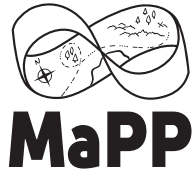




MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Mathematical Puzzle Programs



MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

How to Play

Rules

Puzzle Packet and ClueKeeper

This printed **Puzzle Packet** contains all the physical puzzle materials you'll need to play the game. But you'll also need to download this hunt on **ClueKeeper** app to solve them!

Once you've downloaded the hunt on your app, you can add as many teammates as you want via the menu. Once your team is ready, you can use the **Start Code** MINDY to begin the game. Once the game begins, clues will become available in the app that will allow your team to begin solving puzzles in this packet. Once a puzzle is solved, its solution can be submitted via the app. Hints for puzzles are also available in the app.

Main Puzzles

Once the game begins, you'll be presented with four **Main Puzzles**. Each Main Puzzle can be solved directly using mathematical problem-solving abilities. Once the solution for the puzzle has been entered into ClueKeeper, **1000 Victory Points** will be awarded, and the second part will be unlocked. This second part uses the first solution to extract a short word or phrase. Solving this second challenge is worth an additional **500 Victory Points**.

Cryptic Puzzles

After solving the second part of each Main Puzzle, an additional **Cryptic Puzzle** will become available to solve. The way to solve these puzzles is left, well, cryptic. However, your team should still be able to use your critical thinking to extract a hidden word or phrase. Correct solutions are worth **500 Victory Points**.

Metapuzzle

Once your team has solved two Cryptic Puzzles, the final **Metapuzzle** becomes available, worth **1500 Victory Points**.

Goal of the Game

Your team's goal is to submit solutions for all the puzzles in the app, earning **all 10000 Victory Points** and completing the story.



MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Game Resources

Reference Sheet

Letter	Decimal	Binary	Morse	Braille	Letter	Decimal	Binary	Morse	Braille
A	1	00001	.-	⠠	N	14	01110	-.	⠠
B	2	00010	-...	⠡	O	15	01111	---	⠠
C	3	00011	-. .	⠢	P	16	10000	.-.	⠠
D	4	00100	-..	⠣	Q	17	10001	--.	⠠
E	5	00101	.	⠣	R	18	10010	.-.	⠠
F	6	00110	..-.	⠣	S	19	10011	...	⠠
G	7	00111	--.	⠣	T	20	10100	-	⠠
H	8	01000	⠣	U	21	10101	..-	⠠
I	9	01001	..	⠣	V	22	10110	...-	⠠
J	10	01010	.-..	⠣	W	23	10111	.-.	⠠
K	11	01011	-. .	⠣	X	24	11000	-..	⠠
L	12	01100	.-..	⠣	Y	25	11001	-. -.	⠠
M	13	01101	--	⠣	Z	26	11010	--..	⠠

Some famous numbers and lists

$\sqrt{2} \approx 1.41421\ 35623\ 73095\ 04880\ 16887\ 24209\ 69807\ 85696\ 71875\ 37694\ 80731\ 76679\ 73799\ 07324\ 78462\ 10703\ 88503\ 87534\ 32764\ 15727$

$e \approx 2.71828\ 18284\ 59045\ 23536\ 02874\ 71352\ 66249\ 77572\ 47093\ 69995\ 95749\ 66967\ 62772\ 40766\ 30353\ 54759\ 45713\ 82178\ 52516\ 64274$

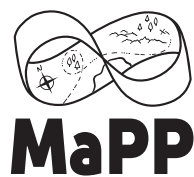
$\pi \approx 3.14159\ 26535\ 89793\ 23846\ 26433\ 83279\ 50288\ 41971\ 69399\ 37510\ 58209\ 74944\ 59230\ 78164\ 06286\ 20899\ 86280\ 34825\ 34211\ 70679$

Prime numbers less than 200:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199

Square numbers less than 400:

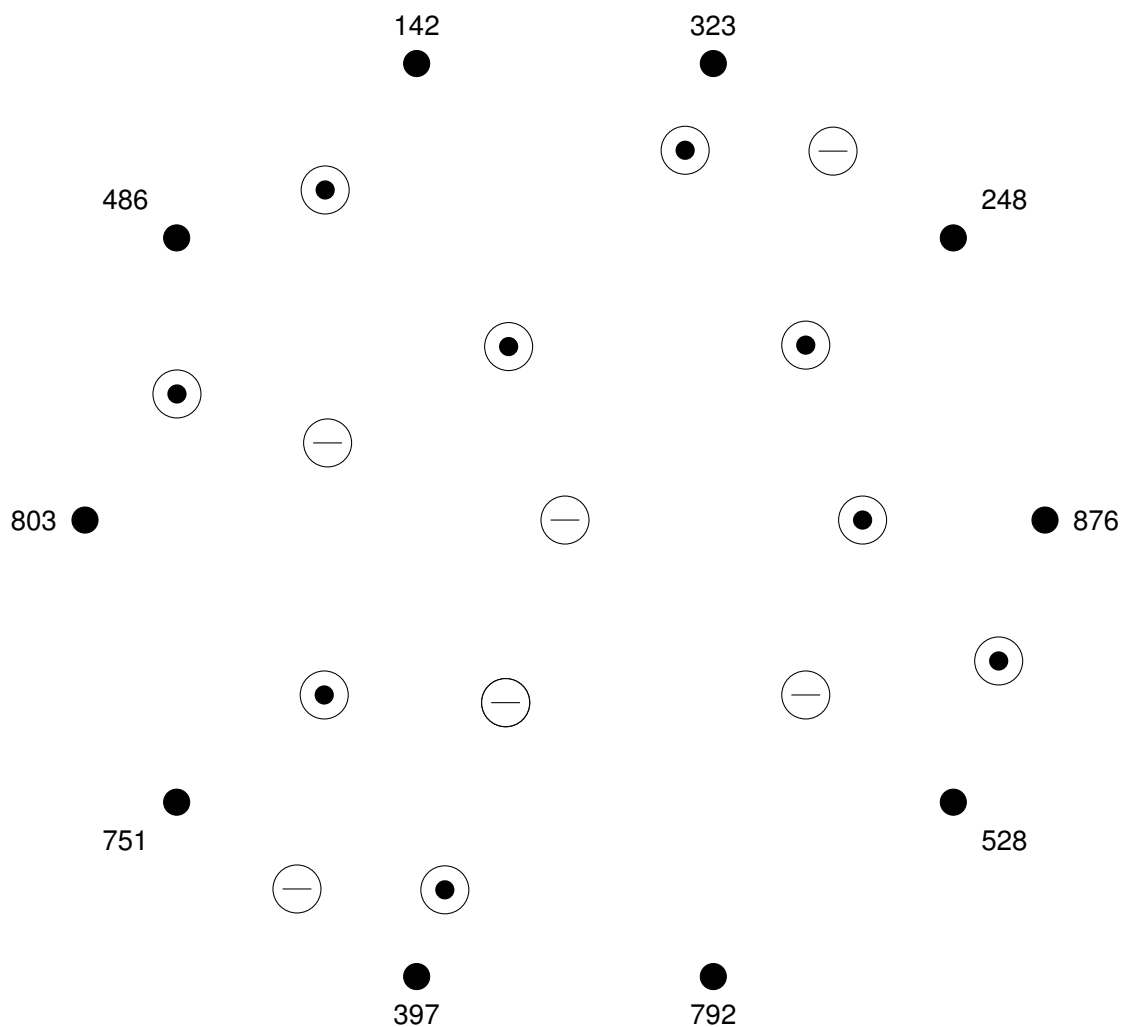
0, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361

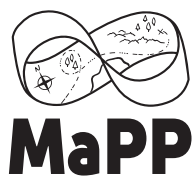


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

January 20

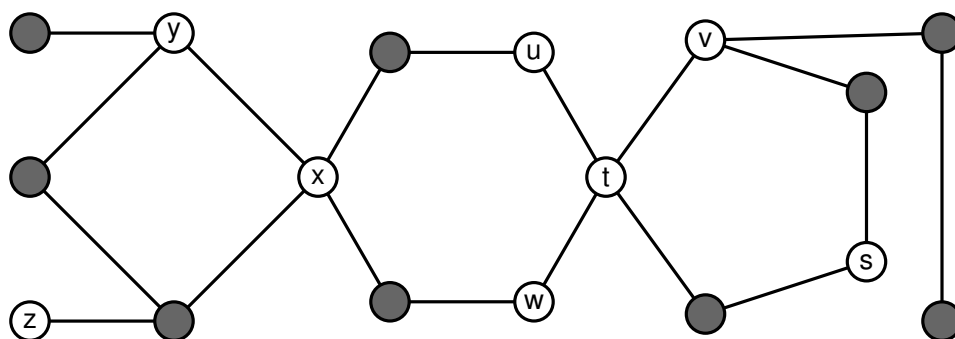
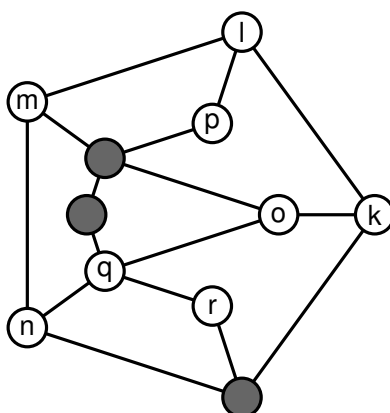
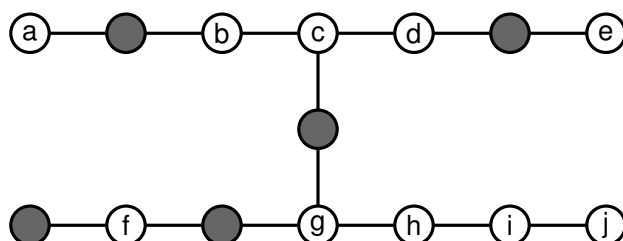




MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

February 05



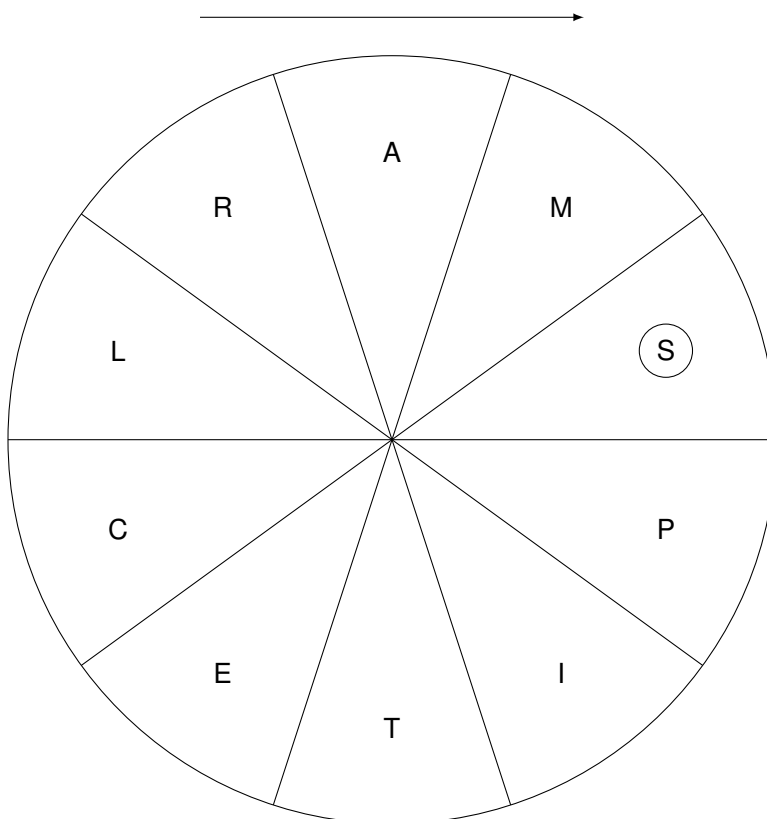
TOTAL BUDGET: \$12000

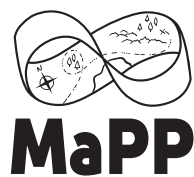


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

March 16



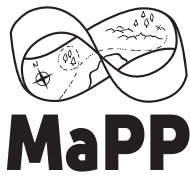


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

April 03

k u
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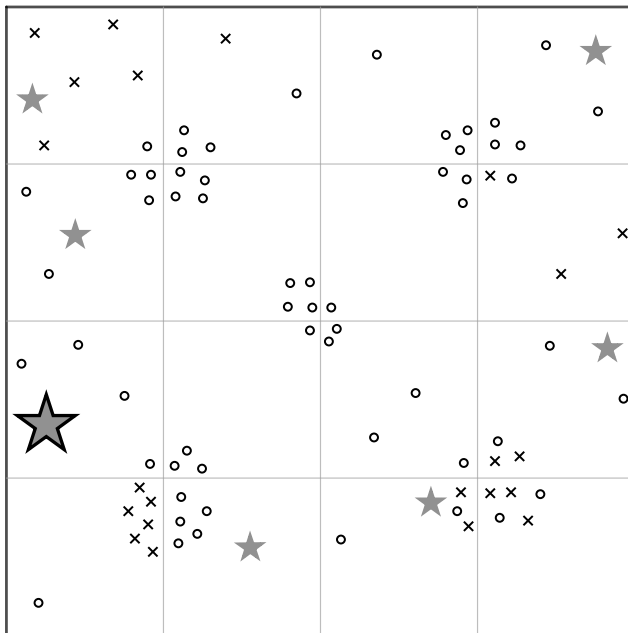


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

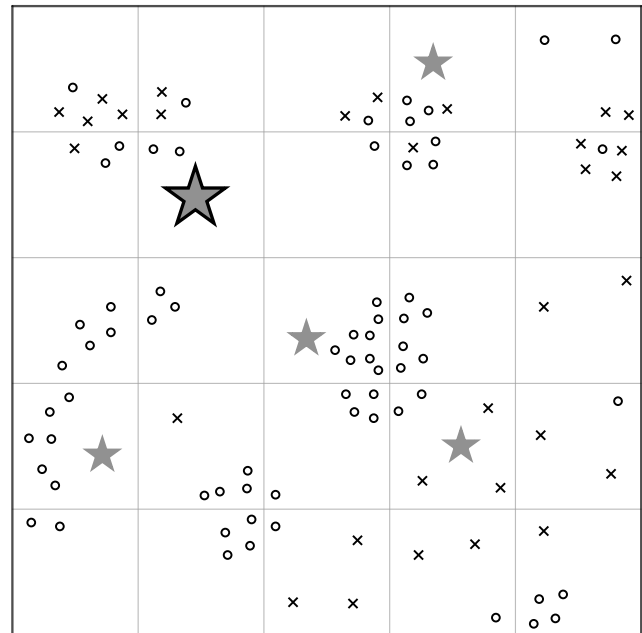
Dr. Jonas's Journal

May 04

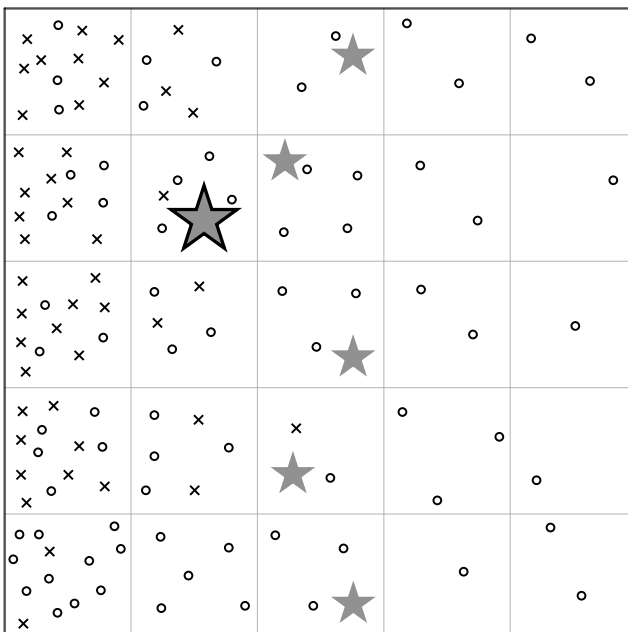
Tribe A



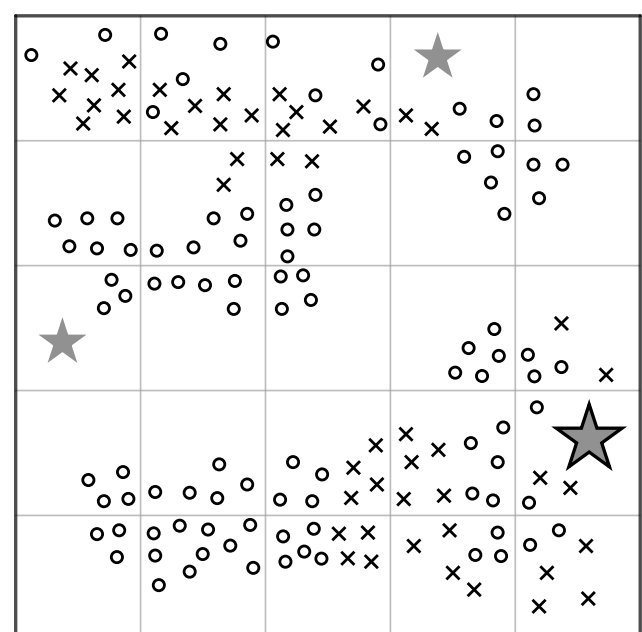
Tribe B



Tribe C



Tribe D





MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

June 28

Journal	entry	June	28,	3513		
	Successful	dig	today.	We	found	a
lot	of	pot	shards,	some	with	remarkably
intact	artwork.	Like	in	the	tomb,	there
are	scenes	of	men	with	circles	around
their	heads,	looking	to	the	sky.	We
believe	these	represent	past	kings,	deities,	or
maybe	both.	I	recall	my	advisor's	words,
"people	are	not	pots."	I	should	be
careful	before	drawing	any	firm	conclusions.	On
the	other	end	of	the	site	from
the	tomb	we	found	a	burial	site.
It	was	lined	with	red	ochre,	the
bodies	were	facing	east	with	their	arms
folded.	Already	this	site	has	yielded	so
much.	If	only	the	university	understood.	They
want	to	save	money	so	badly,	but
what	is	it	for	if	not	this?



MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

July 21

Budgeting and begging for grants isn't the most exciting aspect of archaeology, but I suppose it's a necessary evil.

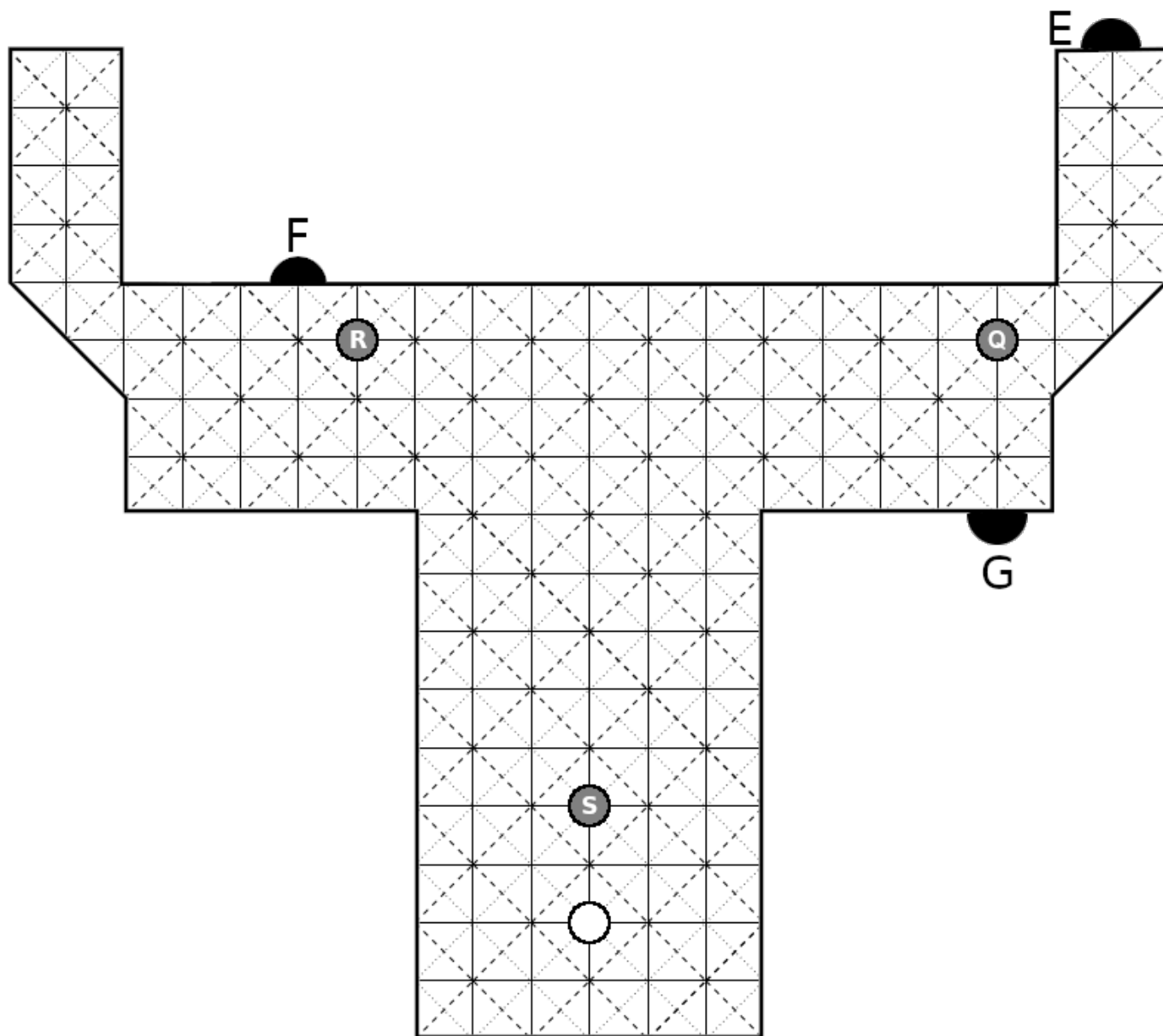
Topic	Detail	Budget Code	Cost
Field work salary	Dr. M. Jonas	N	\$12,717
Field work salary	B. Fraiser	P	\$1,982
Travel expenditures	Lodging	F	\$3,291
Excavation	Digging equipment	Q	\$20,183
Excavation	Artifact cleaning and cataloging	A	\$8,215
Research	Osteology consultant	C	\$6,499
Research	Ceramic analysis	Q	\$7,211
Research	Floral analysis	K	\$5,525
Research	Faunal analysis	Q	\$5,527



MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

August 09

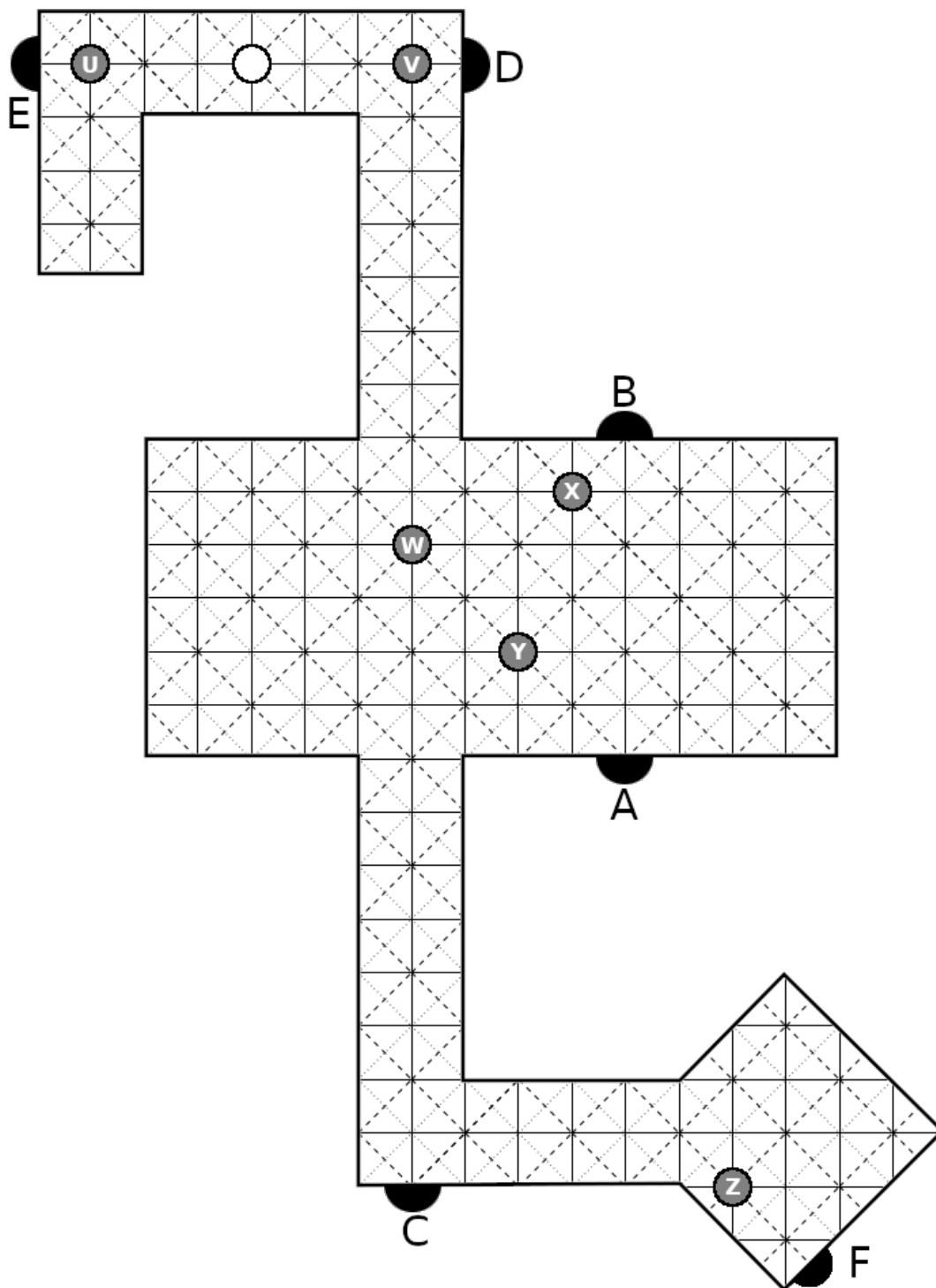


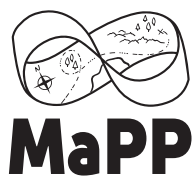


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

August 10

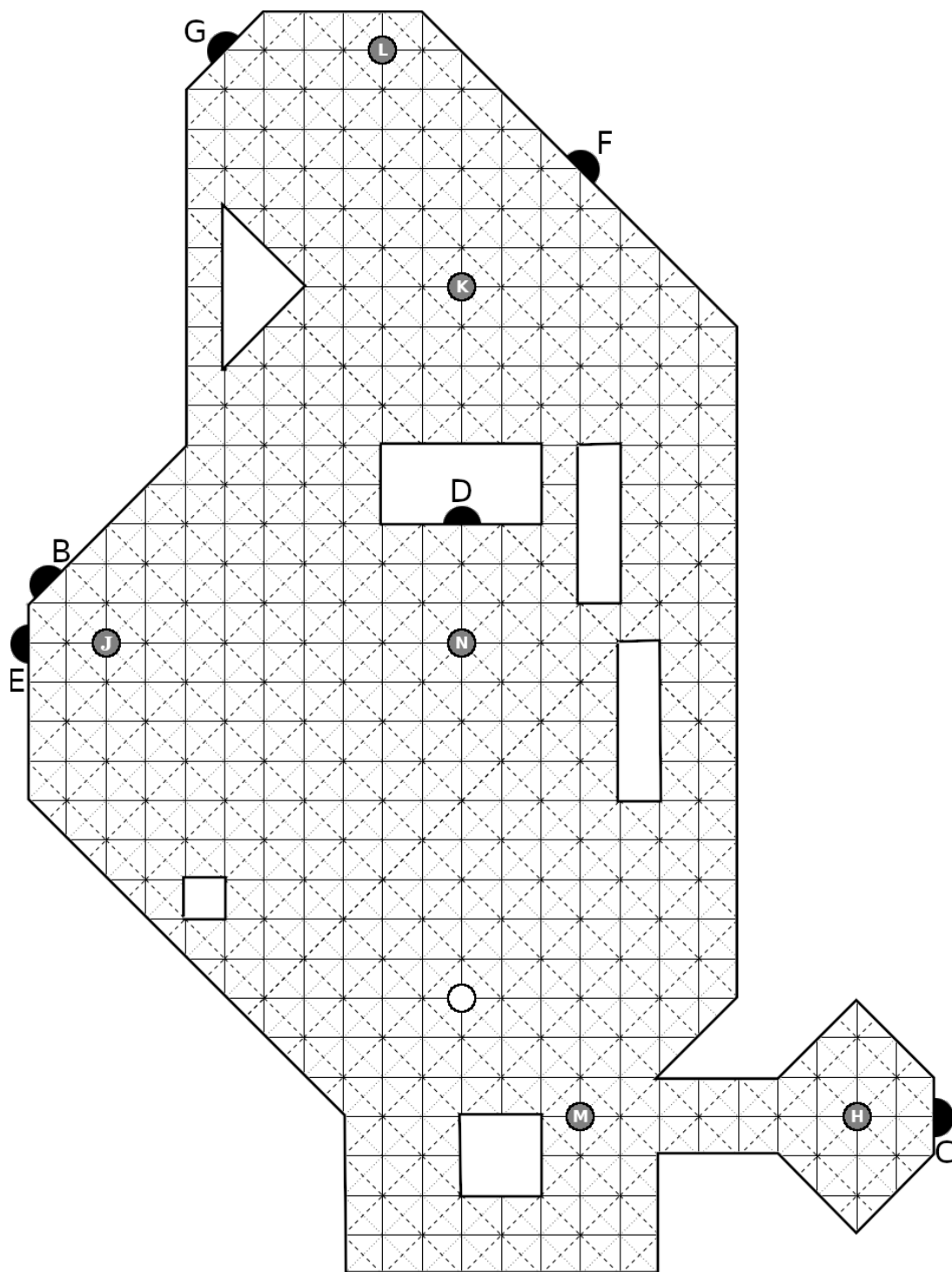


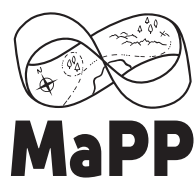


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

August 11

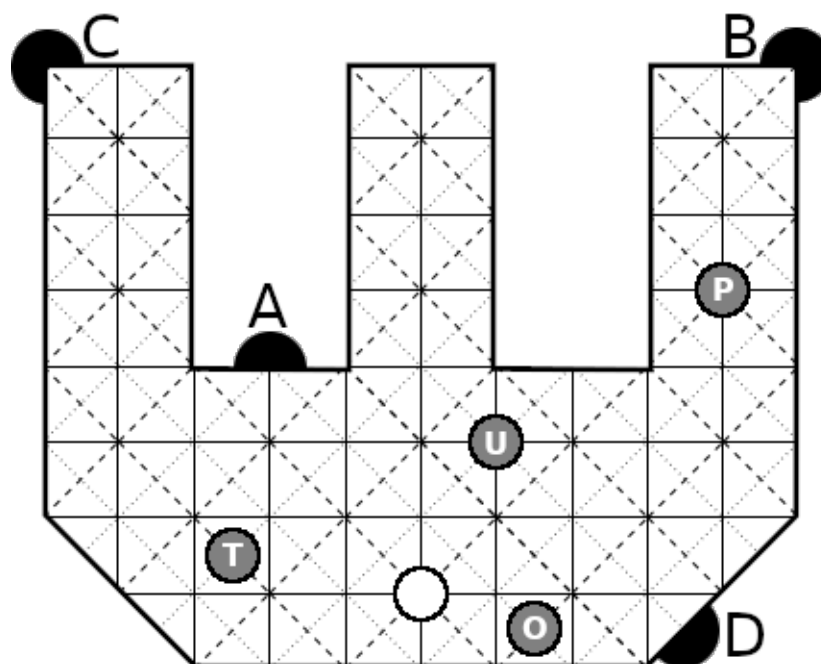


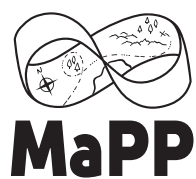


MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

August 12

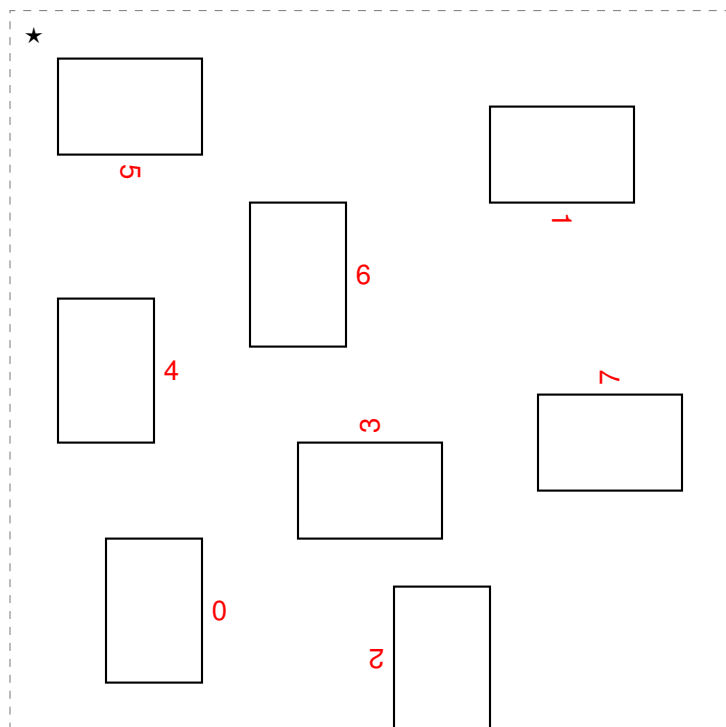
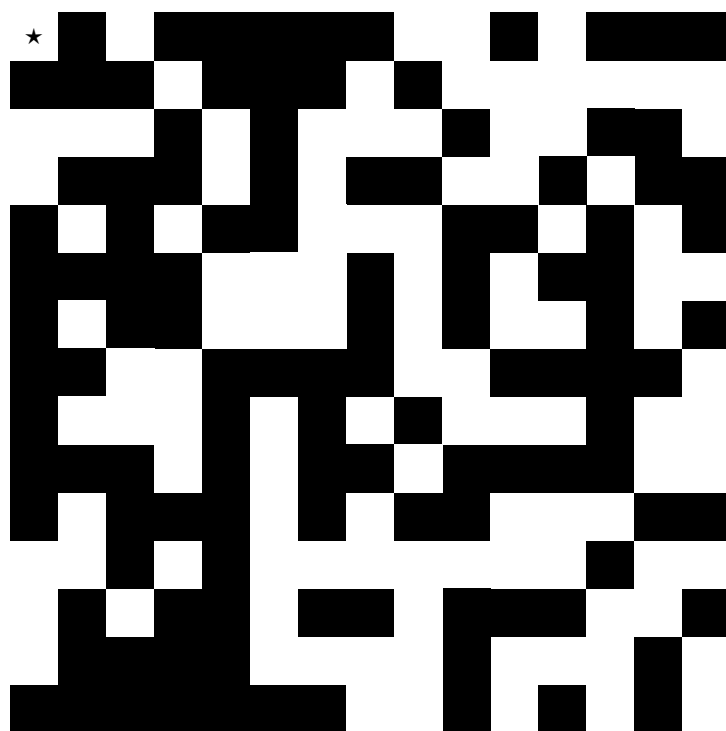




MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

September 18

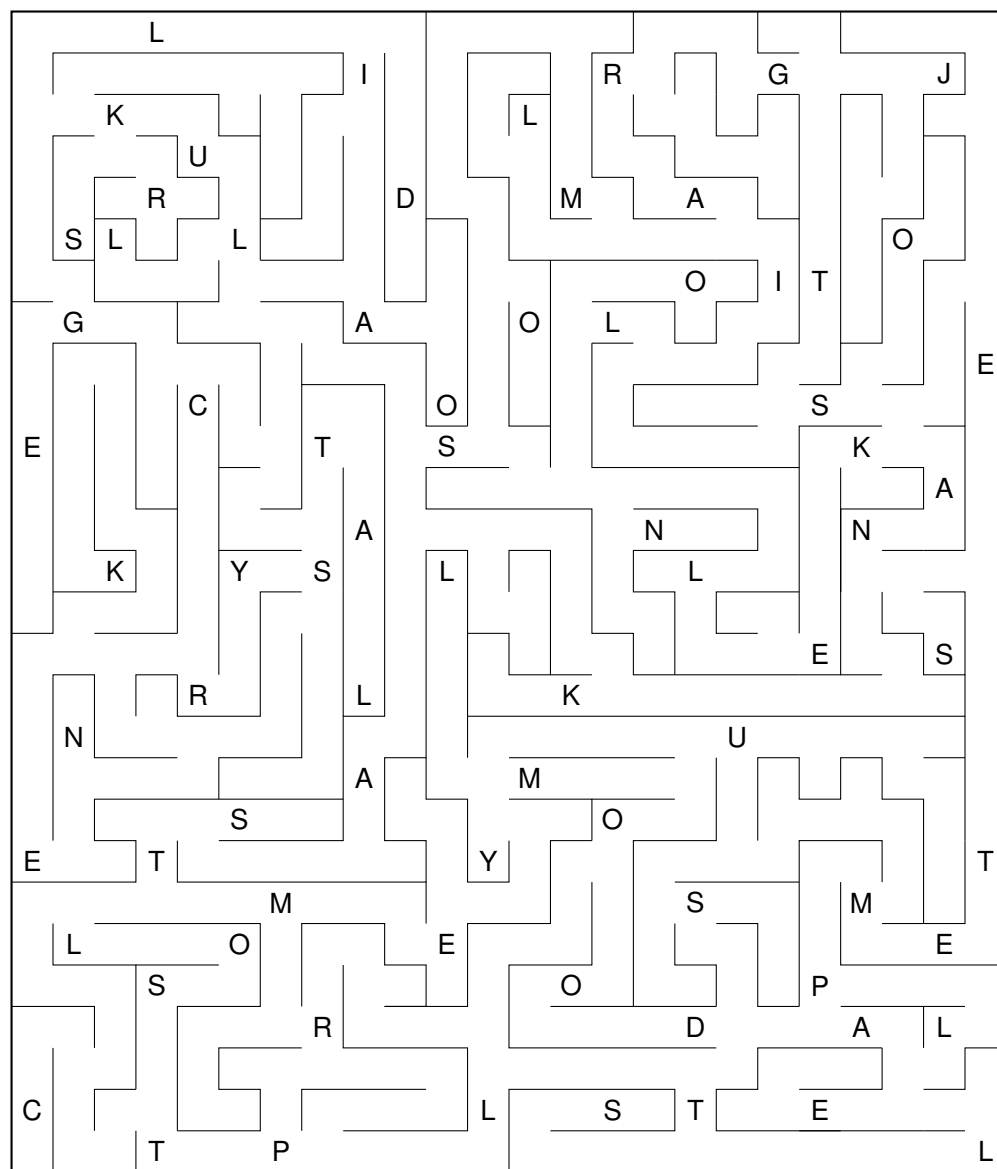




MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

October 22





MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

November 01

Village market:

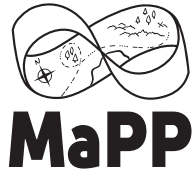
1. M to 2A and L?
2. 2A to 2L?
3. A to 3A and M?
4. A to 3A?
5. A to L?

Market square:

1. 2T to 3F and 3Q?
2. T to 50T?
3. T to T and F?
4. T to Q?
5. T to 3T?

Black market:

1. S to 2S?
2. 2S to S and 2B?
3. 3S to 3C?
4. S to B and 2C?
5. 4S to 2S, 2B, and 5C?

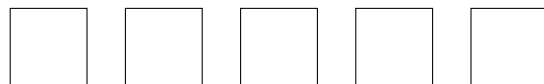


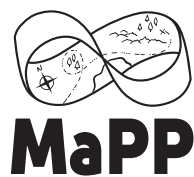
MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

December 25

❖ What A Splendid Day! Ever Since Champollion
❖ Discovered The Wall Paintings In The Third
❖ Dynasty Tomb, We've Known That Like Other
❖ Ancient Peoples, The Fregians Had A Ball
❖ Game, Yet No Arenas Or Equipment Had
❖ Ever Been Found. That Changed Today. I
❖ Have Very High Confidence That The Ruins
❖ We Discovered Are Indeed The Remains Of
❖ One Of These Ancient Collusiums. While Everyone
❖ Thought That The Wall Paintings Were Exaggerated,
❖ Boulders Over Five Meters In Diameter Were
❖ Used In This Sacred Game! How Fascinating!





MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

Undated Entry #1

First



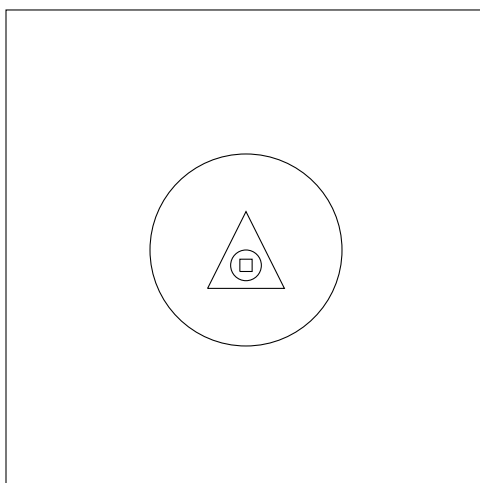
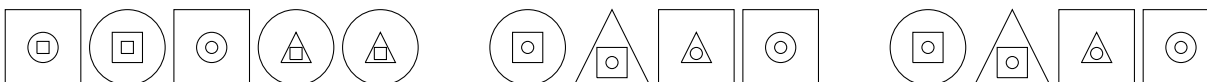
Second



Third



Fourth

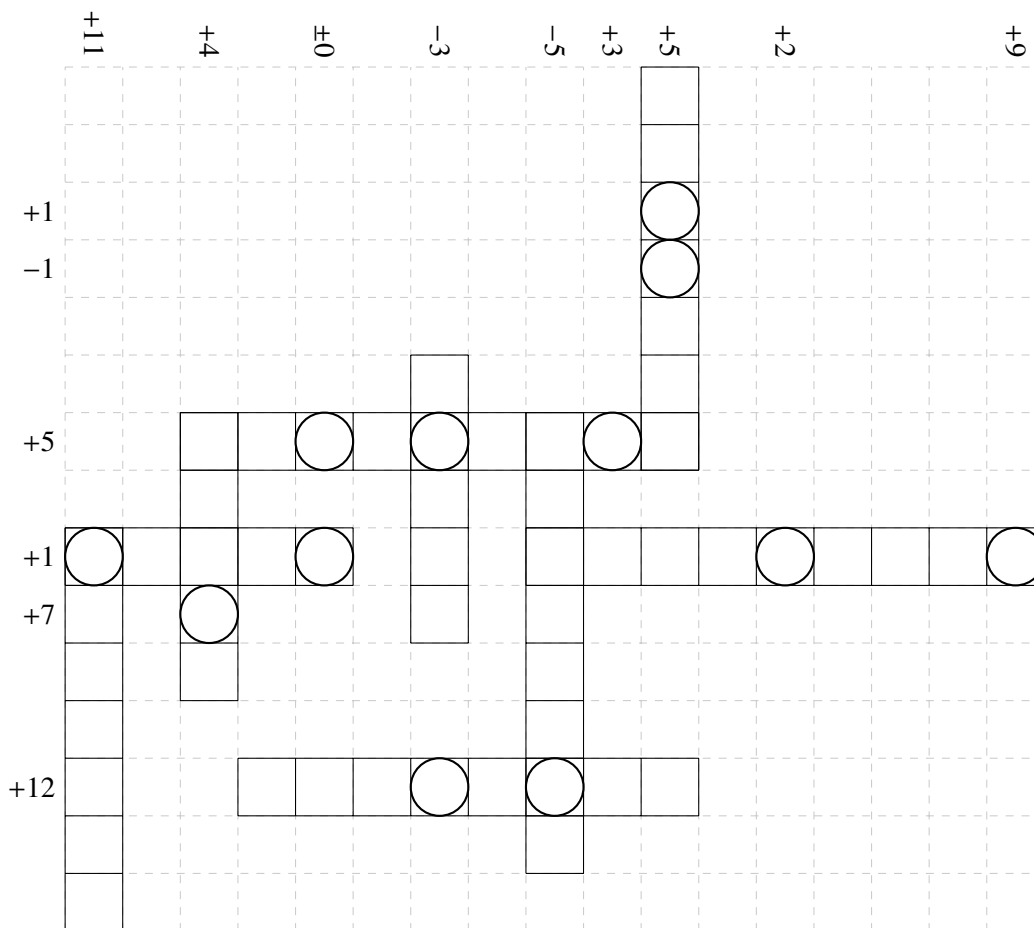




MaPP Challenge '20 – Mindy Jonas and the Enigmatic Legacy

Dr. Jonas's Journal

Undated Entry #2



GREEK

SCHOLAR

POLYMATH

INVENTOR

GEOGRAPHY
