

# The Ænigmatic Addenda:

Guest Constructors revisit the Adalogical Ænigmas

No. 30: Mr Ammar Fathin Sabili revisits Ænigma #46

Gentle solver,

This the thirtieth in our series of *Addenda* comes from the talented pen of Mr Ammar Fathin Sabili, a Ph.D. student in theoretical computer science at the National University of Singapore. He is one of the top 20 contributors to Puzzling Stack Exchange ([puzzling.stackexchange.com/28719/athin](http://puzzling.stackexchange.com/28719/athin)), and his personal home page may be found at [ammar.fathin.in](http://ammar.fathin.in).

As was I in my original Ænigma, Mr Sabili is entranced by the magnetic *compass*, an extraordinary and essential device.

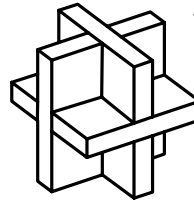
In the grid below, the arrows represent the sensitive magnetic *needles* of compasses, each compelled to indicate the greatest quantity of *iron* nearby (as represented by numbers you shall enter into the grid).

Please enter one number into each white square such that every heavily outlined *region* contains all of the integers from 1 to the size of that region. You may not allow the *same* number to appear in any two adjacent squares (across regions) and, of course, each arrow must point to the *single* largest number among its immediate horizontal and vertical neighbors.

Once you have completed your grid, you may move on to finding the final answer to this Ænigma. In each square that now contains a 3, advance its letter in the alphabet (wrapping around from Z to A if necessary) by the largest of its horizontally or vertically *adjacent* numbers. Reading the resulting letters left to right, top to bottom will reveal a clue to your final answer.

Good luck!

*Atta*



## Pavel's Puzzles

High-quality mechanical and logic puzzles, direct from the designer!

<http://www.pavelspuzzles.com>

Help support the Adalogical Ænigmas:

[www.patreon.com/aenigmas](http://www.patreon.com/aenigmas)



### Example

N	F	M	L	M	K	L
L	G	←	↑	D	L	Q
S	P	D	Q	Y	↑	X
K	A	←	P	F	N	M
P	J	A	L	W	M	C
I	↑	L	A	P	K	S
R	X	←	G	P	F	G

N	3	F	2	M	1	L	2	M	3	K	2	L	1
L	1	G	3	←	↑	D	1	L	3	Q	2		
S	3	P	1	D	2	Q	1	Y	2	↑	X	1	
K	1	A	4	←	P	3	F	4	N	2	M	3	
P	2	J	3	A	2	L	4	W	1	M	3	C	2
I	1	↑	L	1	A	2	P	3	K	2	S	1	
R	3	X	2	←	G	1	P	2	F	1	G	3	

N	F	M	L	M	K	L
L	G	←	↑	D	L	Q
S	P	D	Q	1	↑	X
K	A	←	P	F	N	M
P	J	A	L	W	M	C
I	↑	L	A	P	K	S
R	X	←	G	P	F	G

N + 2 = P	M + 2 = O
M + 2 = O	J + 4 = N
G + 2 = I	M + 2 = O
L + 2 = N	P + 2 = R
S + 1 = T	R + 2 = T
P + 4 = T	G + 1 = H

Answer:  
POINT TO NORTH

Need assistance with this Ænigma? Hints and other help are available at [www.pavelspuzzles.com/aenigmas/addenda/30](http://www.pavelspuzzles.com/aenigmas/addenda/30)

P	M	R	B	F	O	B	Q	Q	C	Z	Q	Q	C	E	Q	N	Z	P	X	G
Q	R	Q	→	P	B	N	↑	J	Z	A	O	J	→	M	B	E	↑	A	R	P
F	F	C	J	X	B	L	E	P	G	O	K	N	F	B	C	M	R	X	L	L
F	↑	Y	P	Z	↑	P	T	K	→	X	→	X	W	N	←	Z	P	K	→	M
O	M	P	O	G	E	M	P	D	Y	A	U	J	M	P	H	F	J	F	I	P
G	Z	Q	↑	J	Q	C	→	F	A	A	A	Z	↑	Q	R	W	←	G	Z	P
F	I	Q	↓	W	I	V	←	E	W	T	P	A	→	C	W	B	←	X	P	X
X	Q	G	B	P	D	Y	C	N	R	H	L	J	S	F	Q	B	O	G	P	Q
Y	←	K	O	N	←	W	L	A	↑	S	↑	Z	D	E	↑	K	C	M	←	X
Z	H	Y	R	A	B	P	J	X	A	L	W	L	P	A	D	N	K	C	L	O
R	L	Z	↓	F	M	T	←	A	P	Y	R	F	↓	P	F	X	→	X	G	Q
M	Q	V	C	I	E	C	D	U	K	T	H	F	E	Q	A	A	A	C	O	L

Send your answer to [aenigma@pavelspuzzles.com](mailto:aenigma@pavelspuzzles.com) by 9/14/2021 for a chance to win a **free physical puzzle** from *Pavel's Puzzles*! Full details are at [www.pavelspuzzles.com/aenigmas/addenda/30](http://www.pavelspuzzles.com/aenigmas/addenda/30).