## Adalogical Ænigmas No. 90 of 100

Gentle solver,

I daresay it will not deeply surprise you to learn that my love of all things mathematical extends not only to numerical topics, but also to subjects geometrical. I love the crisp perfection of regular polygonal shapes, and which of these could be any more perfect than the simple, elegant square?

For this ænigma, I mentally have conjured a storehouse of these four-sided specimens, lovingly arranged for my appreciation of their beauty.

The grid below represents my imagined museum of squares. I wish you to *darken* some grid squares such that each horizontally or vertically connected region of darkened squares itself comprises a perfect square, one of my geometrical exhibits.

Squares containing clues mayn't be darkened and, to allow me freely to wander amongst my collection, the set of undarkened squares must remain a single connected group.

A number in a clue specifies the exact *sum* of the areas of the adjacent darkened regions. Every clue must be adjacent to at least one such region.

Once you have completed the museum, you may move on to finding the final answer to my ænigma. Please identify every undarkened square that is adjacent to exactly one darkened region and advance its letter in the alphabet (wrapping around from Z to A if necessary) by the area of that region. Reading the resulting letters in left-to-right, top-to-bottom order will reveal a clue to your final answer.

Good luck!

Ata



Need assistance with Ada's ænigma? Hints and other help are available at www.pavelspuzzles.com/aenigmas/90

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D			Ρ	G	Н	S	F			Q	L	D		G	R	0	E	R	Z		
Р	С	Α	R	Α	3	Ν	Y	L	Q	G	R	X	V	E	6	K	0	I	J	V	
Z	Н	I	Ρ	С	Z	Ρ	G	R	Ζ	S	Z	0	Ρ	0	J	J	Α	6	L	L	
5	W	Ρ	6	G	E	D	6	S	D	2		D	Y	Ρ	С	K	V	S	Ρ	E	
Z	J	Z	Z	Q	I	Z	Α	Η		D	Y	W	5	0	I	R	G	L	D	S	
	D	V	Н	L	Y	Ρ	U	E	1	Z	G	Z	J	G	0	3	Q	R	5	В	
N	6	В	Z	4	Y	Ρ	W	W	D	J		Н	E	L	G	Z	Α	Y	В	K	
Т	Т	Α	N	0	Y	R		Н	0	R		Α	Q	I	Α	0	E	Ν	K	Α	
U	Ρ	S	J	0	W	Μ	S	Н			K	G	6	Н	N	В	3	R	G		
R	В	5	0	М	Q	N	Α	V	S	Н	S	Р	S	Z	Н	Х	I	В	Α	D	
Η	G	N	Z	Т	6	Ρ	N	Н	Ζ	R	Ρ	N	В	F	3	Y	R	Q	Q	X	
	Ρ	Κ	W	G	Q	I		Е	Q	S			Α	N	Х	Μ	D		4	Α	

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