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20 June 91

Dear Neil:

The new edition of your ~~seuqneee~~ Sequence book is great news.

On Kobon Fujamura's non overlaping triangle problem, see   A6066
Fejes Toth's comments in Guy's column, <u>AMM</u>, vol 82, Apr 1975,
387ff. He states that the figures for 7,8 and 9 lines have <u>not</u>
been proved. Kobon died about 15 years ago. I enclose a letter
in which a reader gives a formula (he had earlier sent it to me but
said he had no proof). My notation idnicated I thanked him and
asked for his proof, but I did not hear from him again. I have
no idea whether his formulas are correct or not, though they are
okay through nine lines.

I know of no further work on ennumerating magic squares
beyond n = 5.

I assume you have refs on:

The Smith numbers. (See last chapter of my <u>Penrose Tiles</u>
for refs.)
         A6753 ✓

Golomb's self-describing sequence (similar to Conway's).   A1462
<u>AMM</u>, Vol. 74, June 67, 740f. I have what may be an unpublished
paper on this sequence by Illan Vardi, math, Stanford. (He can
tell you if published).

Hofstadter's Meta-Fibonacci sequence. <u>AMM</u>, vol. 93,
March 86, 186f.

David Robbins ~~worte~~ wrote a fine article "The Story of 1,2,7,   A5130
~~42, 49, 7436~~, 42, 49, 7436," in <u>Math. Intelligencer</u>, vol 13, 1991, 12ff.

Ennumerating any of the cousins of polyomonoes remains
unsolved (that is, no formula known). Assume you caught the
polyiamonds (eq. triangle forms), and the polycubes. Some work
has been done on ~~xx~~ solids formed from half-cubes (sliced diagonal-
ly) but this may be too far afield. If you like I think I can
locate at least one published paper.

Have you heard of the newly discovered phobia: <u>Aibohphobia</u>?
It's the fear of palindromes.

Best,

Martin