Adalogical Ænigmas
No. 73
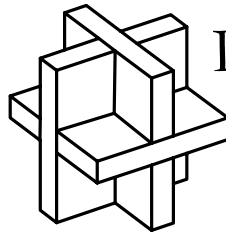
Pavel's Puzzles

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

http://www.pavelspuzzles.com

Gentle solver,

Every good thing, we are often assured, must eventually pass away, and so it is, sadly, with the decorative tiles on the floor of my *salle de toilet*. They have been with me for rather a *prolonged* duration, but Time (and my feet, I must admit) has taken its toll, and the tiles must soon be replaced.

I am quite *particular* about the laying of my tiles, however, and with this ænigma I hope to have your assistance in creating a *satisfactory* arrangement.

The grid below represents the floor of the room in question, which is to be completely covered by my tiles. I have four shapes of tiles, each a *rectangle* of integer dimensions $1 \times n$, where n lies 'twixt 1 and 4, inclusive.

In the final arrangement, no two tiles of the same area may ever abut along an edge, and in no place may any *four* tiles touch at a single point. To aid you in your task, I have numbered certain grid squares. Each such number specifies the *precise* area of the tile covering it. No tile may cover more than one number.

Once you have finished your tiling, you may move on to finding the final answer to my ænigma. At each square within an *unnumbered* tile of *odd* area, advance its letter in the alphabet (wrapping around from Z to A as necessary) by the size of that tile. Reading the resulting letters in left-to-right, top-to-bottom order will reveal a clue to your final answer.

Good luck!

Ada

Example

S + 1 = T | K + 1 = L
B + 3 = E | K + 1 = L
P + 3 = S | X + 3 = A
P + 3 = S | Q + 3 = T
D + 1 = E | B + 3 = E

Answer:
TESSELLATE

Need assistance with Ada's ænigma? Hints and other help are available at *www.pavelspuzzles.com/aenigmas/73*

— — — — — — — —
— — — — — — — —
④