



Forum: Riddles ĭ¼`è-Žè`žĩ¼%o

Topic: MATRIX ARITHMETIC

Subject: Re: MATRIX ARITHMETIC

Posted by: Anonymous

Posted on: 2007/1/2 4:57:21

TO : All Those Who Are Interested

There are 4 methods of positioning the numbers 1~81 to land them such that 369 is the all-round total. Again middle number 41 multiply by 9.

I think Pretty Futari employs the upward-diagonal sequence beginning with 1 and upwards until 9; and continues in that format until number 81 is reached. See illustration (may be distorted) below.

Next, highlight the 9 by 9 squares with the centre number 41 in the middle. Then, move the numbers outside the 9 x 9 box towards the opposite direction into the box, each time counting 9 squares. Do this both vertically and horizontally.

```
09
08 18
07 17 27
06 16 26 36
05 46 15 56 25 66 35 76 45
04 54 14 55 24 65 34 75 44 4 54
03 13 63 23 64 33 74 43 03 53 63
02 12 62 22 72 32 73 42 02 52 12 62 72
01 11 21 71 31 81 41 01 51 11 61 71 81
10 20 70 30 80 40 9 50 10 60 20 70 80
19 29 79 39 8 49 18 59 19 69 79
28 78 38 7 48 17 58 27 68 28 78
37 6 47 16 57 26 67 36 77
46 56 66 76
55 65 75
64 74
73
```

ps: As expected the figure is distorted. It should look like the diagram of a rhombus instead of like a loud speaker.

My method is quite similar. I use the downward sequence. See illustration below.

```
37 30 23 16 09 74 67 60 53
54 38 31 24 17 01 75 68 61
62 46 39 32 25 18 02 76 69
70 63 47 40 33 26 10 03 77
```

78 71 55 48 41 34 27 11 04
05 79 72 56 49 42 35 19 12
13 06 80 64 57 50 43 36 20
21 14 07 81 65 58 51 44 28
29 22 15 08 73 66 59 52 45