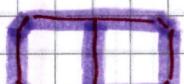




4



8

 3×3

18

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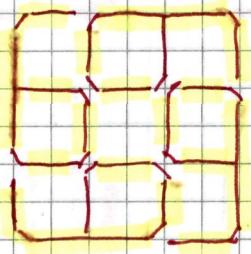
42

43

44

45

46



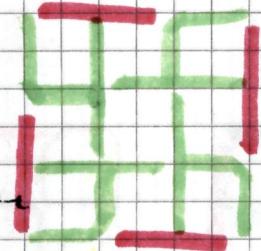
$$24 = 6 + 6 + 6 + 6$$

$$27 = 6 + 6 + 6 + 9$$

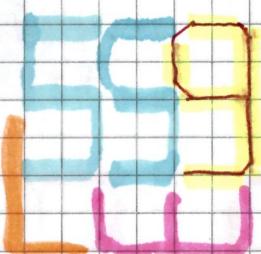
$$30 = 6 + 6 + 9 + 9$$

$$33 = 6 + 9 + 9 + 9$$

$$36 = 9 + 9 + 9 + 9$$



$$20 = 4 + 4 + 4 + 4 + 1 + 1 + 1 + 1$$

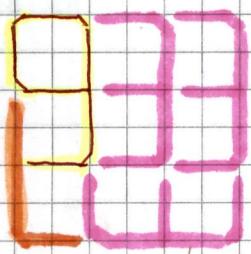


$$26 = 3 + 5 + 5 + 7 + 6$$

$$29 = 3 + 5 + 5 + 7 + 9$$

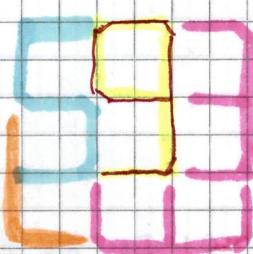
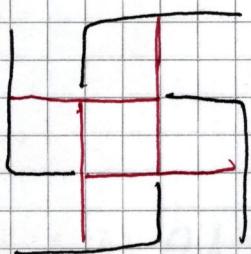
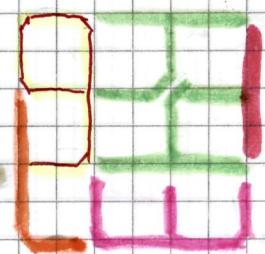
$$25 = 1 + 3 + 4 + 4 + 7 + 6$$

$$28 = 1 + 3 + 4 + 4 + 7 + 9$$



$$22 = 3 + 3 + 3 + 7 + 6$$

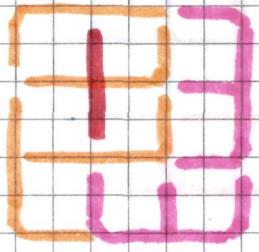
$$25 = 3 + 3 + 3 + 7 + 9$$



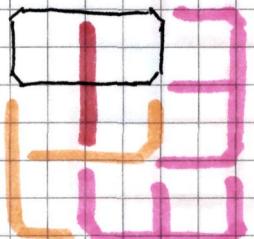
$$24 = 3 + 3 + 5 + 7 + 6$$

$$27 = 3 + 3 + 5 + 7 + 9$$

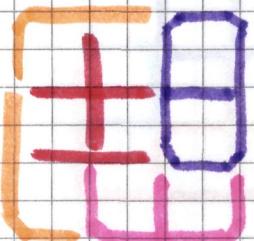
2



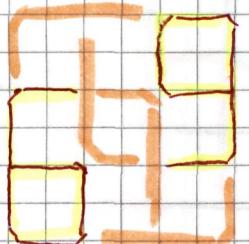
$$35 = 1+3+3+7+7+7+7$$



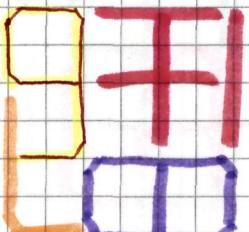
$$21 = 0+1+3+3+7+7$$



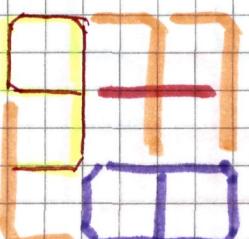
$$28 = 1+1+1+3+7+7+8$$



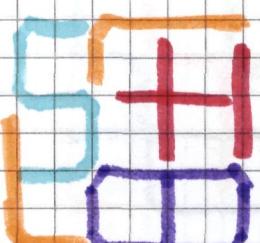
$$\begin{aligned} 40 &= 7+7+7+7+6+6 \\ 43 &= 7+7+7+7+6+9 \\ 46 &= 7+7+7+7+9+9 \end{aligned}$$



$$\begin{aligned} 25 &= 1+1+1+1+7+8+6 \\ 28 &= 1+1+1+1+7+8+9 \end{aligned}$$



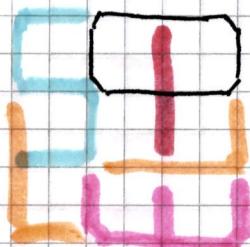
$$\begin{aligned} 36 &= 1+7+7+7+8+6 \\ 39 &= 1+7+7+7+8+9 \end{aligned}$$



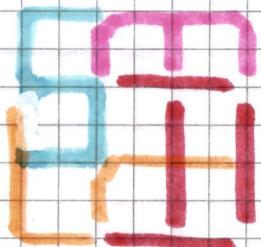
$$30 = 1+1+1+5+7+7+8$$

on ka analoog

3

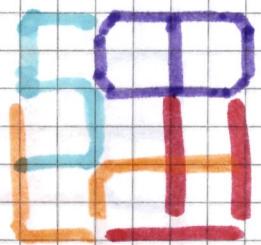
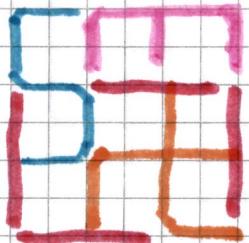


$$23 = 0+1+3+5+7+7$$



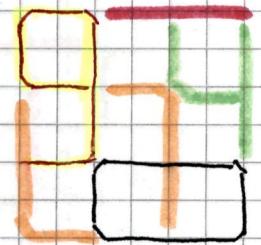
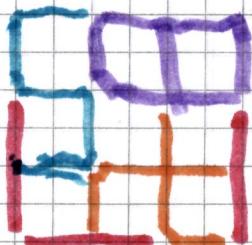
$$26 = 1+1+1+1+3+5+7+7$$

on ka analoog



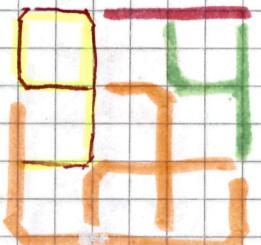
$$30 = 1+1+1+5+7+7+8$$

on ka analoog



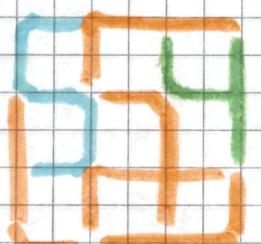
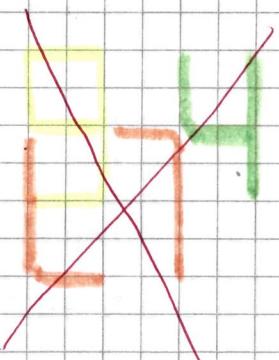
$$25 = 0+1+4+7+7+6$$

$$28 = 0+1+4+7+7+9$$

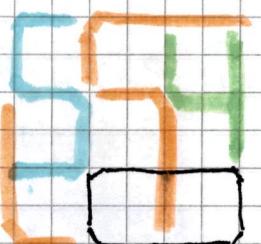


$$39 = 1+4+7+7+7+7+6$$

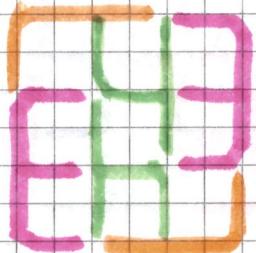
$$42 = 1+4+7+7+7+7+9$$



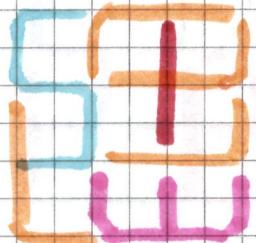
$$44 = 4+5+7+7+7+7+7$$



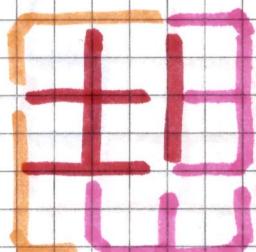
$$30 = 0+4+5+7+7+7$$



$$28 = 3+3+4+4+7+7$$

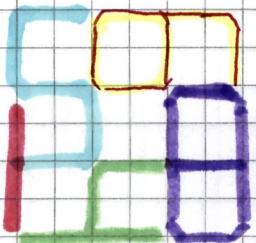


$$37 = 1+3+5+7+7+7+7$$



$$24 = 1+1+1+1+3+3+7+7$$

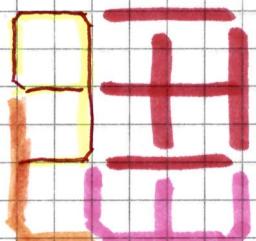
je
jne



$$24 = 1+4+5+8+6$$

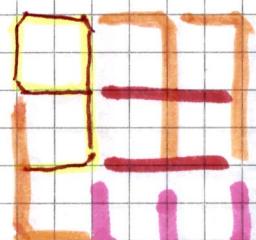
$$27 = 1+4+5+8+9$$

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$$21 = 1+1+1+1+1+3+7+6$$

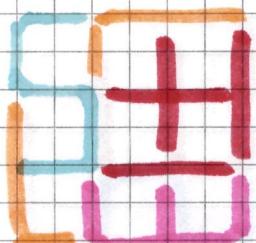
$$24 = 1+1+1+1+1+3+7+9$$



$$32 = 1+1+3+7+7+7+6$$

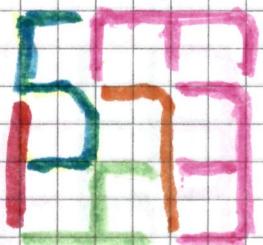
$$35 = 1+1+3+7+7+7+9$$

643

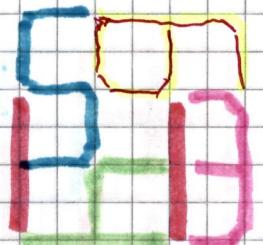


$$26 = 1+1+1+1+3+5+7+7$$

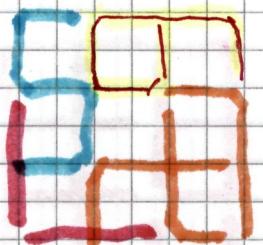
on ka analog



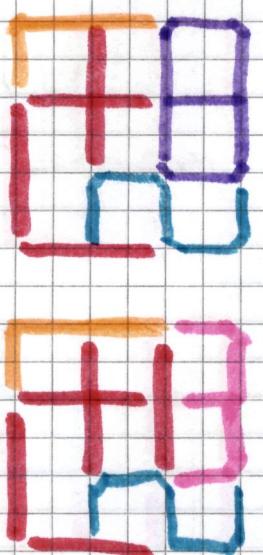
$$23 = 1+3+3+4+5+7$$



$$\begin{aligned} 20 &= 1+1+3+4+5+6 \\ 23 &= 1+1+3+4+5+9 \end{aligned}$$



$$\begin{aligned} 34 &= 1+1+5+7+7+7+6 \\ 37 &= 1+1+5+7+7+7+9 \end{aligned}$$



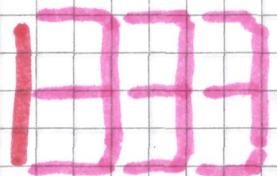
$$21 = 1+1+1+1+2+7+8$$

ERROR

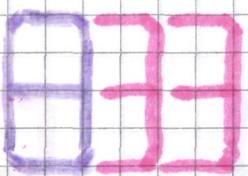
$$17 = 1+1+1+1+1+2+3+7$$

2x3

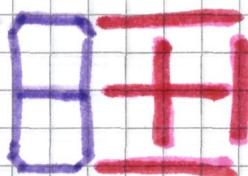
6



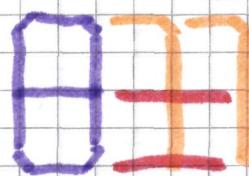
10
 $1+3+3+3$



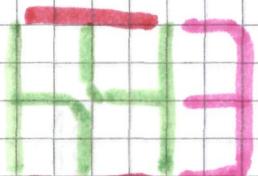
14
 $8+3+3$



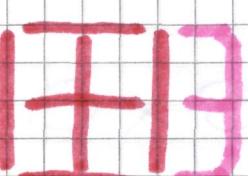
13
 $1+1+1+1+1+8$



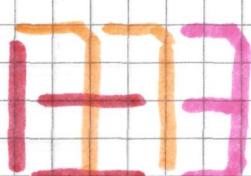
24
 $8+7+7+1+1$



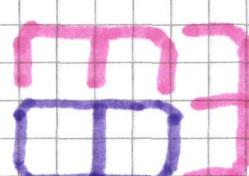
13
 $4+4+1+1+3$



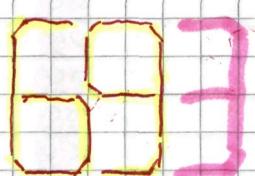
9
 $1+1+1+1+1+1+3$



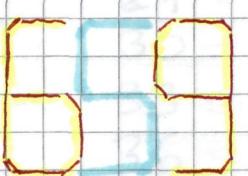
20
 $1+1+1+7+7+3$



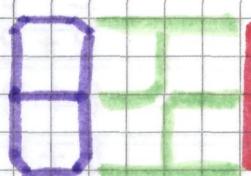
14
 $8+3+3$



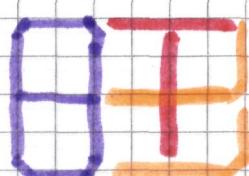
15, 18, 21
 $6+9+3$
 $6+6+3$
 $9+9+3$



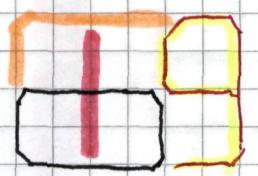
17, 20, 23
 $6+6+5$
 $6+9+5$
 $9+9+5$



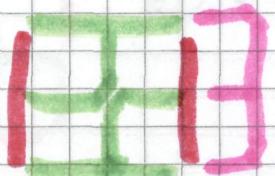
17
 $1+4+4+8$



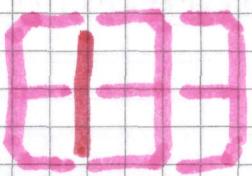
24
 $8+7+7+1+1$



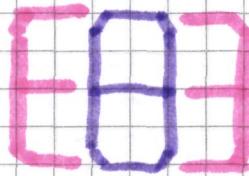
14, 17
 $1+0+9+7$
 $1+0+6+7$



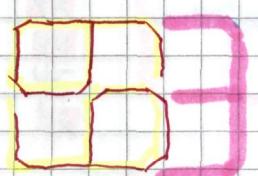
13
 $4+4+1+1+3$



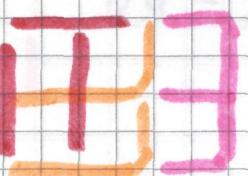
10
 $3+1+3+3$



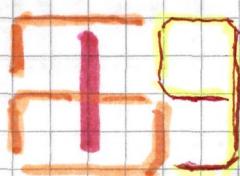
14
 $8+3+3$



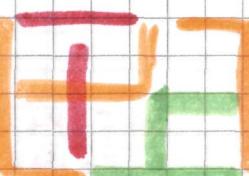
15, 18, 21
 $6+9+3$
 $6+6+3$
 $9+9+3$



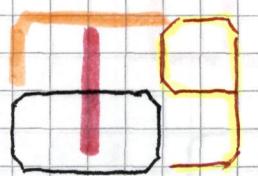
20
 $1+1+1+7+7+3$



1+6+7+7+7
1+9+7+7+7
28, 31



27
 $1+1+7+7+7+4$



14, 17
 $0+1+7+9$
 $0+1+7+6$

SAA0AVAL 9, 10, 13, 14, 15, 17, 18, 20, 21, 23, 24, 27, 28, 31

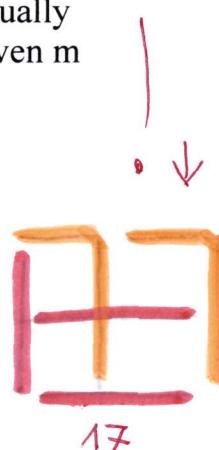
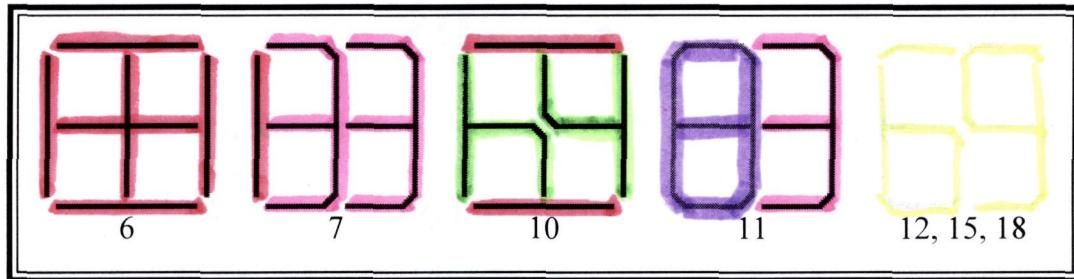


Math Magic is a web site devoted to original mathematical recreations. If you have a math puzzle, discovery, or observation, please e-mail me about it. You can also send answers to the problem of the month.

Chronological Archive Sorted Archive

Problem of the Month (August 2008)

This month we consider tiling the lines of an $n \times m$ grid using the ten digits, as they usually appear on a digital clock. We are interested in the possible totals of the digits for a given m and n . Digits can intersect, and be rotated. Digits can not overlap, or be reflected. For example, the known totals for a 2×2 grid are shown below:



For small grids, what are the possible digit totals? For large grids, what are the smallest and largest possible totals?

You can see all the best known results here.

Submit your answers here.

- | | |
|------------------|--------------------------|
| 1 - punane | 6 - kollane |
| 2 - tumesinine | 7 - pruun (hole) = orang |
| 3 - violett | 8 - helioseline |
| 4 - tumeroheline | 9 - kollane |
| 5 - helesinine | 0 - must |

Weekly Puzzle Sites: | [MathPuzzle.com](#) | [Ken Duisenberg](#) | [NPR](#) | [Puzzability](#) | [Nick's](#) |

Other Puzzle Sites: | [IBM](#) | [Retrograde Analysis](#) | [Puzzle Palace](#) | [Terry Stickels](#) |

Interactive Puzzle Sites: | [Sliding Blocks](#) | [Mazes](#) | [Puzzle Beast](#) | [Lunar Lockout](#) |
[Joker Games](#) | [Mazeworks](#) | [Paint By Numbers](#) | [Theseus & Minotaur](#) |

Colleges with Puzzles: | [Macalester](#) | [S. Missouri](#) | [Bradley](#) | [U. Mass.](#) | [Purdue](#) | [Hamline](#) |
[Geometry Junkyard](#) | [Integer Sequences](#) | [Mathematician Biographies](#) |

Great Math Sites:
[Numbers With Names](#) | [Inverse Calculator](#) | [Geometric Dissections](#) |

Recreational Math Sites: | [Mike Keith](#) | [Harvey Heinz](#) | [World of Numbers](#) | [Fibonacci](#) |
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