MAGIC SQUARES PROJECT

Letter Magic Squares

$$a_{i,j} \in [1, 99] \quad \forall \quad i, j \in [1, 3]$$

Dictionary: EnglishNumberDictionary.txt

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generated and calculated by
https://github.com/adriansuter/LetterMagicSquares

inspired by Matt Parker
http://standupmaths.com/[1]

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1 Magic sum is 45

$$
\begin{pmatrix}
\begin{array}{ccc}
8 & 25 & 12 \\
\text{Eight} & \text{Twenty five} & \text{Twelve} \\
5 & 10 & 6 \\
\\
19 & 15 & 11 \\
\text{Nineteen} & \text{Fifteen} & \text{Eleven} \\
8 & 7 & 6 \\
\\
18 & 5 & 22 \\
\text{Eighteen} & \text{Five} & \text{Twenty two} \\
8 & 4 & 9
\end{array}
\end{pmatrix}
$$

2 Magic sum is 45 - I am truly magic

$$
\begin{pmatrix}
\begin{array}{ccc}
5 & 28 & 12 \\
\text{Five} & \text{Twenty eight} & \text{Twelve} \\
4 & 11 & 6 \\
\\
22 & 15 & 8 \\
\text{Twenty two} & \text{Fifteen} & \text{Eight} \\
9 & 7 & 5 \\
\\
18 & 2 & 25 \\
\text{Eighteen} & \text{Two} & \text{Twenty five} \\
8 & 3 & 10
\end{array}
\end{pmatrix}
$$

3 Magic sum is 135

$$
\begin{pmatrix}
\begin{array}{ccc}
21 & 72 & 42 \\
\text{Twenty one} & \text{Seventy two} & \text{Forty two} \\
9 & 10 & 8 \\
\\
66 & 45 & 24 \\
\text{Sixty six} & \text{Forty five} & \text{Twenty four} \\
8 & 9 & 10 \\
\\
48 & 18 & 69 \\
\text{Forty eight} & \text{Eighteen} & \text{Sixty nine} \\
10 & 8 & 9
\end{array}
\end{pmatrix}
$$

4 Magic sum is 135

$$
\begin{pmatrix}
\begin{array}{ccc}
18 & 75 & 42 \\
\text{Eighteen} & \text{Seventy five} & \text{Forty two} \\
8 & 11 & 8 \\
\\
69 & 45 & 21 \\
\text{Sixty nine} & \text{Forty five} & \text{Twenty one} \\
9 & 9 & 9 \\
\\
48 & 15 & 72 \\
\text{Forty eight} & \text{Fifteen} & \text{Seventy two} \\
10 & 7 & 10
\end{array}
\end{pmatrix}
$$

5 Magic sum is 135

$$
\begin{pmatrix}
\begin{array}{ccc}
15 & 78 & 42 \\
\text{Fifteen} & \text{Seventy eight} & \text{Forty two} \\
7 & 12 & 8 \\
\\
72 & 45 & 18 \\
\text{Seventy two} & \text{Forty five} & \text{Eighteen} \\
10 & 9 & 8 \\
\\
48 & 12 & 75 \\
\text{Forty eight} & \text{Twelve} & \text{Seventy five} \\
10 & 6 & 11
\end{array}
\end{pmatrix}
$$

6 Magic sum is 162

$$
\begin{pmatrix}
\begin{array}{ccc}
44 & 67 & 51 \\
\text{Forty four} & \text{Sixty seven} & \text{Fifty one} \\
9 & 10 & 8 \\
\\
61 & 54 & 47 \\
\text{Sixty one} & \text{Fifty four} & \text{Forty seven} \\
8 & 9 & 10 \\
\\
57 & 41 & 64 \\
\text{Fifty seven} & \text{Forty one} & \text{Sixty four} \\
10 & 8 & 9
\end{array}
\end{pmatrix}
$$

7 Magic sum is 165

$$
\begin{pmatrix}
\begin{array}{ccc}
45 & 68 & 52 \\
\text{\color{blue}Forty five} & \text{\color{blue}Sixty eight} & \text{\color{blue}Fifty two} \\
\color{red}9 & \color{red}10 & \color{red}8 \\
& & \\
62 & 55 & 48 \\
\text{\color{blue}Sixty two} & \text{\color{blue}Fifty five} & \text{\color{blue}Forty eight} \\
\color{red}8 & \color{red}9 & \color{red}10 \\
& & \\
58 & 42 & 65 \\
\text{\color{blue}Fifty eight} & \text{\color{blue}Forty two} & \text{\color{blue}Sixty five} \\
\color{red}10 & \color{red}8 & \color{red}9
\end{array}
\end{pmatrix}
$$