

## THE TWO-YEAR GRID

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In the rectangular grid below, the 21 number names from 0 through 20 each appear once, along with the eight additional number-names 30, 40, 50, 60, 70, 80, 90 and 100. Both the horizontal number names and the vertical ones add to 365, the number of days in a year. Furthermore, all number-names are connected, forming a single network. Can anyone construct a grid smaller than 16x17 in which all this is possible?

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                F I F T E E N   E
                O   O           F I V E
S I X          R   U           T   G
I              T   R           H   H
X   F I F T Y   T   S I X T Y
T              E           R   E
E   F O U R    S E V E N T E E N
E       N      T E N           E   N
N I N E          V   Z           E           E
            I           E L E V E N           I
N I N E T E E N   R   I           G
            E   W      T W O   G           T   H
            T W E N T Y           H           H   T
            Y   L           T H I R T Y
                V           E
            S E V E N   H U N D R E D

```