## Group Puzzles

## Sudoku Generalized

Variations on Difficult Education Sudoku Logic Puzzles

| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | $\mathbf{T}$ |  | $\mathbf{E}$ | $\mathbf{U}$ |  |  |  |
|  |  |  | $\mathbf{N}$ |  |  |  |  |  |
|  |  |  | $\mathbf{O}$ |  | $\mathbf{C}$ |  | $\mathbf{U}$ |  |
|  |  | $\mathbf{C}$ | $\mathbf{T}$ |  |  | $\mathbf{O}$ |  |  |
| $\mathbf{U}$ |  |  |  |  |  |  |  | $\mathbf{C}$ |
| $\mathbf{C}$ |  |  |  |  |  | $\mathbf{N}$ |  | $\mathbf{A}$ |
|  | $\mathbf{I}$ |  |  |  |  |  | $\mathbf{T}$ |  |
|  | $\mathbf{N}$ |  | $\mathbf{A}$ |  |  |  |  |  |

T. P. Smith

Step-By-Step Solutions Online!

January, 2022
Volume: 1

## Copyright © 2022 Group Puzzles Pub. Co.

Permission is granted to teachers in grades K-12 to photocopy these puzzles for use in their classes.

All other rights are reserved.
info@grouppuzzles.com

Other titles can be found at:
https://www.grouppuzzles.com/titles

January, 2022
In the interest of try-before-you-buy, this eBook is made available free of charge under the Creative Commons Non-Commercial Sharealike License. In simple terms, that means you can share this PDF format eBook with your friends so that they too can discover what types and levels of puzzles they wish to work. You can share this PDF eBook by email, posting it on your web page, or any other means so long as you do not change it or charge for it. This link https://creativecommons.org/licenses/by-nc-sa/2.0 provides the license terms long with a straightforward explanation .

## New Hybrid eBook/Print Book Format

A hybrid book consists of a traditional paperback book, containing puzzles and answers, and an on-line companion set of web pages for the print book, containing detailed step-by-step solutions for each puzzle, instructions for each puzzle type, and other information related to the paperback version of the book. Each print book title has a unique Internet web URL that points the reader directly to the eBook information for that particular print book. The URL for this book is:
https://www.grouppuzzles.com/titles/B3CC4760/
Hybrid books save paper while providing an enhanced reading experience. The Internet portion of the book that is accessible at this URL is very large and would make the printed version of the book around 10 times longer, if it was included. Most of this paper is wasted, however, if the reader is able to solve most of the puzzles on their own without the detailed per-puzzle step-by-step instructions and other information in the on-line eBook portion of the book.

Education


| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  | $\mathbf{U}$ |  | $\mathbf{E}$ |  |
|  |  | $\mathbf{C}$ |  |  |  |  |  |  |
| $\mathbf{D}$ |  |  |  | $\mathbf{N}$ |  |  |  | $\mathbf{O}$ |
|  |  | $\mathbf{A}$ |  |  | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{I}$ |  |
|  | $\mathbf{U}$ |  |  |  |  |  |  |  |
|  | $\mathbf{E}$ |  |  | $\mathbf{C}$ |  |  | $\mathbf{U}$ |  |
| $\mathbf{O}$ |  | $\mathbf{D}$ | $\mathbf{A}$ |  |  |  |  | $\mathbf{T}$ |
|  |  |  |  | $\mathbf{E}$ |  |  | $\mathbf{N}$ |  |

Diff: 11 / 823.3576 .6444
Difficult
$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{1}$

Answer Grid
on Page
Education
49/81

| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{C}$ | $\mathbf{O}$ |  |  |  |  |  | $\mathbf{U}$ |
|  |  |  |  |  | $\mathbf{O}$ |  | $\mathbf{C}$ |  |
| $\mathbf{A}$ | $\mathbf{U}$ |  |  |  | $\mathbf{E}$ | $\mathbf{C}$ |  |  |
|  |  | $\mathbf{E}$ |  |  |  |  | $\mathbf{T}$ | $\mathbf{A}$ |
|  |  | $\mathbf{D}$ | $\mathbf{I}$ |  |  |  | $\mathbf{U}$ |  |
|  |  |  | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{O}$ |  |  |
|  |  |  |  | $\mathbf{T}$ |  |  |  |  |
|  | $\mathbf{A}$ |  |  |  |  | $\mathbf{D}$ |  | $\mathbf{T}$ |

Difficult
Diff: 14 / 83.331A.1322.6862

Help and step-by-step solutions for each puzzle are available:

| U | C | A | T | I | 0 |  | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | I |  |  |  |  |  |
|  |  |  |  | U |  |  |  |
|  | 0 |  |  | C |  |  |  |
|  |  |  | N |  |  |  |  |
| D | I |  |  |  |  |  | U |
|  |  |  |  |  | D |  |  |
|  | A |  | D | E |  |  |  |
| A |  | E | C |  |  |  |  |



Help and step-by-step solutions for each puzzle are available:

|  | $\mathbf{U}$ |  | $\mathbf{A}$ |  |  | $\mathbf{E}$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |
|  | $\mathbf{N}$ | $\mathbf{I}$ |  |  | $\mathbf{D}$ |  |  |  | $\mathbf{P}$



Help and step-by-step solutions for each puzzle are available:

| E |  | I |  | U |  | C |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D |  |  |  | E | C |  |  | U |
| U |  | C |  | A | 0 | T |  |  |
| C |  |  | U |  |  |  | N |  |
| A |  |  | C |  |  | 0 |  | T |
| T | E | D |  |  |  | 1 | U |  |
| I |  |  | E |  |  | U |  | 0 |
| 0 | A |  |  | I | U |  | C |  |
| N |  |  |  |  | A |  |  | 1 |

$$
\begin{gathered}
\mathbf{P} \\
\mathbf{U} \\
\mathbf{Z} \\
\mathbf{Z} \\
\mathbf{7} \\
\\
\\
\text { Answer Grid } \\
\text { on Page } \\
27
\end{gathered}
$$



Help and step-by-step solutions for each puzzle are available:

| $\mathbf{E}$ |  |  |  | $\mathbf{U}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{D}$ | $\mathbf{N}$ |  | $\mathbf{I}$ |  |  |  |  | $\mathbf{E}$ |
| $\mathbf{U}$ |  |  |  |  | $\mathbf{D}$ |  | $\mathbf{O}$ |  |
| $\mathbf{C}$ |  |  |  |  |  | I |  | $\mathbf{A}$ |
| $\mathbf{A}$ |  |  |  | I |  |  |  |  |
| $\mathbf{T}$ |  | $\mathbf{N}$ | $\mathbf{C}$ |  | $\mathbf{A}$ |  | $\mathbf{D}$ |  |
| $\mathbf{I}$ |  |  | $\mathbf{T}$ |  |  |  | $\mathbf{N}$ |  |
| $\mathbf{O}$ |  |  |  | $\mathbf{E}$ |  |  |  | $\mathbf{C}$ |
| $\mathbf{N}$ |  | $\mathbf{U}$ |  |  |  | $\mathbf{O}$ |  |  |

$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{9}$

Answer Grid
on Page
27

Difficult
Diff: 13 / 2.1223.4434.5589

| duca |  |  |  |  |  |  | U88 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | E | T |  |  |
| C |  | U |  | D |  | A |  |
|  | A |  |  | U | C |  | N |
| U |  |  |  | C | D |  |  |
| E | 0 |  |  | A |  | C |  |
| A |  | C | E | T |  |  |  |
| T |  | 0 |  | 1 |  |  | D |
|  |  | D | A | 0 |  | T |  |
|  | C |  |  | N |  | 0 |  |

Difficult
Diff: 10 / 65.4556 .4562

Help and step-by-step solutions for each puzzle are available:

|  | I | T |  | E |  |  |  |  | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C |  |  | N | D |  |  |  |  |  |
|  |  |  |  | U |  |  | T | C | z |
| I |  |  |  | C | E |  | U |  | ${ }_{\text {E }}$ |
|  |  | C |  | A |  | T | E |  | 11 |
| A |  |  |  | T |  |  |  |  | $\begin{gathered} \text { Answer Gidid } \\ \text { on } \\ 27 \text { gac } \end{gathered}$ |
| T |  | N | D | 1 |  |  |  |  |  |
|  | A |  |  | 0 |  | C |  | T |  |
|  |  |  |  | N |  |  | D |  |  |


|  | Education |  |  |  |  |  |  | 418 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | I |  | U | E |  |  | N |  |
| ${ }_{\mathbf{U}}^{\text {P }}$ | N |  |  | D | I | U |  | A |
| Z |  |  | D | U |  | T |  |  |
| ${ }_{\text {E }}$ |  | U | I | C | N |  |  |  |
| 12 | 0 | N |  | A |  | I |  |  |
|  |  | E |  | T | 0 | N |  | U |
| Answer Grid on Page | U |  | C | 1 | T |  |  | N |
|  |  | D |  | 0 |  |  | U | I |
|  |  | I |  | N |  |  |  | T |

Help and step-by-step solutions for each puzzle are available:

|  |  |  | $\mathbf{U}$ | $\mathbf{C}$ |  |  |  | $\mathbf{E}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\mathbf{E}$ |  |  |  |  | $\mathbf{D}$ |
|  |  | $\mathbf{T}$ |  |  | $\mathbf{N}$ |  | $\mathbf{O}$ | $\mathbf{U}$ |
|  | $\mathbf{D}$ | $\mathbf{E}$ |  |  |  |  |  | $\mathbf{C}$ |
|  |  |  |  | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{O}$ |  | $\mathbf{A}$ |
|  | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{C}$ |  |  |  |  | $\mathbf{T}$ |
|  | $\mathbf{N}$ |  | $\mathbf{D}$ |  |  |  |  | $\mathbf{I}$ |
| $\mathbf{E}$ |  | $\mathbf{I}$ |  |  |  |  | $\mathbf{T}$ | $\mathbf{O}$ |
|  |  |  |  |  | $\mathbf{O}$ |  |  | $\mathbf{N}$ |

Answer Grid
on Page
28


Help and step-by-step solutions for each puzzle are available:


Help and step-by-step solutions for each puzzle are available:

| Hype | Educ | ation |  |  |  |  |  | 81 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E | D | U | C | A | T | I | 0 | N |  |
|  |  |  |  |  |  |  |  | D | $\underset{\mathbf{U}}{\mathbf{P}}$ |
|  | T | I |  |  |  |  |  |  | Z |
|  | A |  |  |  | N |  |  | C | E |
|  |  |  | I |  |  |  |  | U | 16 |
|  |  |  |  |  |  |  |  |  |  |
| D |  |  |  |  | C |  | T | A | Answer Grid on Page |
|  |  | C |  |  |  | U |  |  |  |
|  |  |  |  |  |  |  |  |  |  |



Help and step-by-step solutions for each puzzle are available:



Help and step-by-step solutions for each puzzle are available:

| $\mathbf{C}$ |  | $\mathbf{N}$ |  |  | $\mathbf{E}$ | $\mathbf{D}$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |
|  | $\mathbf{T}$ |  |  |  |  | $\mathbf{A}$ |  |  |



Help and step-by-step solutions for each puzzle are available:

| E |  |  |  |  | 1 |  |  | U |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | A | A |  | 0 |  | I |  |  |
| U |  |  |  |  |  |  |  | T |
| C |  |  |  |  |  | T |  |  |
| A |  | E |  | C |  |  | U |  |
| T |  |  |  | U |  |  | E |  |
| 1 |  |  |  |  | 0 | U |  | D |
| 0 |  |  |  | N |  |  |  | C |
| N |  | J | 1 |  |  |  |  |  |

$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{2 2}$

Answer Grid
on Page
29

Difficult
Diff: 9 / 7.3664.3993


Help and step-by-step solutions for each puzzle are available:

## HyperEducation

| E |  |  |  | I |  | N | C |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | I |  |  |  | C |  |  |  |
| U |  |  |  |  | N | E |  |  |
| C |  |  |  |  |  |  |  |  |
| A |  |  | E |  |  |  | 0 | U |
| T |  | 0 | N |  |  |  |  |  |
| 1 |  |  | C | N |  |  | D |  |
| 0 |  | T |  |  | A |  | N |  |
| N |  |  |  | T |  |  |  |  |

$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{E}$
$\mathbf{E}$
$\mathbf{2 4}$

Answer Grid
on Page
29


Difficult

Help and step-by-step solutions for each puzzle are available:

|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | E | D | U |  |  |  |  |
| N | C | A | T |  |  |  |  |
|  | I | 0 | N |  |  |  | A |
| E |  |  |  |  |  |  |  |
| T |  |  |  | E | D | U |  |
|  |  |  |  | C | A | T |  |
|  |  |  | D | I | 0 | N |  |
| D |  |  |  |  |  | C |  |

$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{2 6}$

$\substack{\text { Answer Grid } \\ \text { on Page } \\ 30}$

Difficult
Diff: 12 / 3335.4334.6942


Help and step-by-step solutions for each puzzle are available:

| D |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | T | E | E | D | U | J |  |
|  |  |  |  |  |  |  | A |  | T |  |
|  |  |  |  |  | 1 |  | 0 |  | N |  |
|  | U |  |  |  |  |  |  |  | D |  |
|  | E | D | U |  |  |  |  |  |  |  |
|  | C | A | T | I |  |  |  |  |  |  |
|  | 1 | 0 | N |  |  |  | U |  |  |  |
|  |  |  |  | E |  |  |  |  |  |  |

Answer Grid
on Page
30
$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{2 8}$

Difficult
HyperEducation
57/81

| $\mathbf{C}$ |  |  |  | $\mathbf{D}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ |  |
|  |  |  |  |  | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ |  |
|  |  |  |  |  | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{T}$ |
|  |  |  |  |  |  |  |  |  |
|  | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ |  |  |  |  |  |
| $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ |  |  |  |  |  |
|  | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |  |  |  |  | $\mathbf{D}$ |
|  |  |  |  |  |  | $\mathbf{C}$ |  |  |

Difficult
Diff: 13 / 9.7113 .7553 .3651

Help and step-by-step solutions for each puzzle are available:


Answer Grid

Diff: 14 / 54.3223.4334.4844
on Page 30
$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{E}$
$\mathbf{3 0}$

| Education-X |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E | D | U | C | A | T | I | 0 | N |  |
| N |  |  |  |  |  |  |  |  | $\xrightarrow[\mathrm{P}]{\mathbf{P}}$ |
|  |  |  |  |  |  |  |  | D | ${ }_{\mathbf{Z}}^{\mathbf{Z}}$ |
| 0 |  | N |  |  |  |  | I |  | ${ }_{\text {E }}$ |
|  |  |  |  | T |  | 0 | C | U | 31 |
|  |  |  |  | 0 |  |  |  |  |  |
|  |  | I | A |  |  |  |  | C |  |
|  |  | E | T |  |  |  | D |  |  |
|  | N |  | E |  |  | A |  |  |  |



Help and step-by-step solutions for each puzzle are available:

| ducation-X 60/8 |  |  |  |  |  |  |  |  | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| E | D | U | C | A | T | I | 0 | N |  |
|  |  |  | I |  |  |  |  | A |  |
|  |  | 0 |  |  |  |  |  |  | Z |
|  |  | N |  |  |  |  | U |  | ${ }_{\text {E }}$ |
|  |  |  |  |  | D |  | I |  | 33 |
|  | E |  |  |  |  | N |  |  |  |
|  |  |  |  |  | 0 | A |  |  | Answer Grid on Page |
|  |  |  |  | C |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |



Help and step-by-step solutions for each puzzle are available:



Help and step-by-step solutions for each puzzle are available:

|  <br>  <br>  <br>  |  | N |  |  |  |  | U |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | U |  |  | E |  |  | A |
|  |  | U | D | T |  |  |  |  | 0 |
|  |  | D | C | E |  | T |  |  |  |
|  |  |  |  | A |  |  | E |  |  |
|  |  |  |  |  | T |  | D |  | 0 |
|  |  |  | A |  |  | 1 |  |  |  |
|  |  |  |  |  |  | A | 0 |  |  |
|  |  |  |  |  | C |  |  |  | N |



Help and step-by-step solutions for each puzzle are available:

Education-X

| E | 0 |  |  |  |  |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | D |  |  | E | U |  |  |  | I |
|  |  | U |  |  |  |  |  | E |  |
|  |  |  | C |  |  |  |  | A |  |
|  |  | E | U | A |  |  |  |  | C |
|  |  | A |  |  | T |  | N |  |  |
| A |  |  |  |  |  |  | I |  |  |
| U |  |  |  |  |  |  | T | 0 |  |
|  | C |  | I |  |  |  |  |  | N |

Difficult

55/81

Diff: 14 / 44.5357.4431.2355
$\mathbf{P}$
$\mathbf{U}$
$\mathbf{Z}$
$\mathbf{Z}$
$\mathbf{L}$
$\mathbf{E}$
$\mathbf{3 9}$

Answer Grid
on Page
32


Difficult

Help and step-by-step solutions for each puzzle are available:

|  |  | $\mathbf{D}$ |  |  | $\mathbf{C}$ |  |  | $\mathbf{N}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | $\mathbf{A}$ |  |  |  |  | $\mathbf{O}$ | $\mathbf{T}$ |
|  |  |  |  | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{I}$ |  |  |
|  |  |  |  |  | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{C}$ |  |
| $\mathbf{I}$ |  |  |  | $\mathbf{A}$ |  |  |  | $\mathbf{E}$ |
|  | $\mathbf{U}$ |  | $\mathbf{C}$ | $\mathbf{I}$ |  |  |  |  |
|  |  | $\mathbf{U}$ |  |  |  |  |  | $\mathbf{D}$ |
| $\mathbf{T}$ | $\mathbf{D}$ |  |  |  |  |  |  |  |
| $\mathbf{E}$ | $\mathbf{A}$ |  | $\mathbf{U}$ |  |  |  |  |  |

$$
\begin{gathered}
\mathbf{P} \\
\mathbf{U} \\
\mathbf{Z} \\
\mathbf{Z} \\
\mathbf{L} \\
\mathbf{E} \\
\mathbf{4 1}
\end{gathered}
$$

Answer Grid
on Page
32

Diff: 12 / 3467.2237.5584

Education-X

Diff: 13 / 4.5221.1147.7982

Help and step-by-step solutions for each puzzle are available:

Puzzle 1

| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{D}$ |
| $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{U}$ |
| $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{O}$ |
| $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{C}$ |
| $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{E}$ |
| $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{I}$ |
| $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{T}$ |
| $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{A}$ |

Puzzle 2

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C | 0 | E |  |  | A |  |  |
|  |  | A | U |  |  |  |  |  |
|  | U | N | T |  | E |  |  |  |
|  | 0 | E | D | C |  | N |  |  |
|  | T | D | 1 | N | A |  | U |  |
|  | N | T | A | U |  | 0 | E |  |
|  |  | C | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 4

|  | A |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | E | 0 | I | U | N |  |  |  |
| T | U |  | A | D |  | O |  |  |
| 0 | C | A | N |  | U |  |  |  |
|  | D | U | C |  |  |  | O |  |
| N |  | T | D | E | 0 | C |  |  |
|  | N | E | 0 | T | D | U | C |  |
|  | T | C | U | N | A | D | E |  |
|  |  |  | E |  |  |  |  |  |

Puzzle 6

|  |  |  | A | E |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | C | N | T | U |  | A | D |  |
| U | E | A | 0 | N | D | T |  |  |
|  | 0 | C | N | D |  | E | A |  |
| E | D | U | C |  |  |  |  |  |
|  | N | T |  | 0 | E | D | C |  |
|  | I | 0 | E | C | A | U | N |  |
| N | U | E | D |  | 0 | C |  |  |
|  |  |  | U |  |  |  |  |  |

Puzzle 7

|  | 0 | I | N |  | T | C | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | T | A | 1 | E | C | N | 0 |  |
| U | N | C | D | A | 0 | T | I |  |
| C | 1 | 0 | U | T | E | A | N |  |
| A | U | N | C | D | 1 | 0 | E |  |
| T | E | D | A | 0 | N | I | U | C |
|  | C | T | E | N | D | U | A |  |
| 0 | A | E | T |  | U | D | C |  |
|  | D | U | 0 | C | A | E |  |  |

Puzzle 9

| $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{I}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{E}$ |
| $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{A}$ |
| $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{O}$ |
| $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ |
| $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{D}$ |
| $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{C}$ |
| $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{T}$ |

Puzzle 11

| $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{D}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{E}$ |
| $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{C}$ |
| $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{N}$ |
| $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{I}$ |
| $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{O}$ |
| $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{A}$ |
| $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{T}$ |
| $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{U}$ |

Puzzle 8

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | A | 0 | T |  | N | C |  |  |
|  |  | C | E |  |  | N | D |  |
|  |  | E | A |  | T |  |  |  |
|  | N | U | D | C |  |  |  |  |
|  |  |  | N | E | U |  |  |  |
|  |  | D | C |  | A | 0 |  |  |
|  |  |  | 1 |  |  | A |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 10

| $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{U}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{O}$ |
| $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{N}$ |
| $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{A}$ |
| $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{T}$ |
| $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{I}$ |
| $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{D}$ |
| $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{C}$ |
| $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{O}$ | $\mathbf{E}$ |

Puzzle 12

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | T |  | 0 |  |  |  |  |  |
|  | 0 | D | N | U | c | T |  |  |
|  | U |  | E |  |  | A |  |  |
|  | N |  | U | A | D | 1 |  |  |
|  | E | A | 1 |  | 0 | N |  |  |
|  | A | C | D |  |  |  |  |  |
|  |  |  | A |  | E | C |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 13

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| U | 1 | A | E | 0 |  |  |  |  |
|  | E |  |  | D | N | A |  |  |
|  | D | E | 0 |  |  |  |  |  |
|  | T | C | N | U |  | 0 |  |  |
|  | U | N | C | A |  |  |  |  |
|  |  |  |  | E |  |  |  |  |
|  | C |  | A |  |  | D |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 15

| $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{E}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{D}$ |
| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{U}$ |
| $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{C}$ |
| $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{A}$ |
| $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{T}$ |
| $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{I}$ |
| $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{O}$ |
| $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{N}$ |

Puzzle 17

| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{E}$ |
| $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{U}$ |
| $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{A}$ |
| $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{T}$ |
| $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{C}$ |
| $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{I}$ |
| $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{D}$ |
| $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{O}$ |

Puzzle 14

| $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{E}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{D}$ |
| $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{U}$ |
| $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{C}$ |
| $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{A}$ |
| $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{T}$ |
| $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{I}$ |
| $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{O}$ |
| $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{N}$ |

Puzzle 16

|  | D | U | C |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | C | N | E | U |  |  |  |  |
|  | T |  | D | N |  | C |  |  |
|  | A | O | U | T |  | D |  |  |
|  | E | T | 1 | 0 | D | A |  |  |
|  | N | D | A |  |  | 0 |  |  |
|  | U | E | 0 |  | C | N |  |  |
|  | 1 | C | T | E | A | U | D |  |
|  |  |  | N |  |  | E |  |  |

Puzzle 18

| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ |
| $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{E}$ |
| $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{C}$ |
| $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{T}$ |
| $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{U}$ |
| $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{I}$ |
| $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{D}$ |
| $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{O}$ |

Puzzle 19

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C | N | U |  | E |  |  |  |
|  | E | 0 | D |  |  | C |  |  |
|  | T |  |  |  | 0 | U |  |  |
|  | D | U | C | A |  | 1 |  |  |
|  |  |  | N |  |  | A |  |  |
|  |  |  |  | N |  | E |  |  |
|  |  |  | E |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 21

|  | T |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C | N | U | T | D | E |  |  |
| $\overline{\mathbf{U}}$ | A | D | E | N |  |  |  |  |
| A | 1 | T | 0 | E | , | C |  |  |
| $E$ | D | U | C | A | T |  | 0 |  |
|  | 0 | C | D | U |  | A |  |  |
|  | E |  | T | 0 | U | D | N |  |
|  | U | A | N | 1 | C | 0 | E |  |
|  | N |  | A | D |  |  | C |  |

Puzzle 23

| $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{C}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{E}$ |
| $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{T}$ |
| $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ |
| $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{O}$ |
| $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{U}$ |
| $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{A}$ |
| $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{N}$ |
| $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{D}$ |

Puzzle 20

|  | 0 |  | A |  | E | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | T | E | D | C |  | A |  |  |
| D | A |  | U | N | 0 |  |  |  |
| T | , | C | 0 |  | D | U | E |  |
| E | D | U | C | A | T |  | 0 |  |
| A |  | O | E | U | N |  |  |  |
|  | C | A | N | 0 | U | E | D |  |
| N | U | D | 1 | E | A | 0 |  |  |
|  | E |  |  |  |  |  |  |  |

Puzzle 22

|  | 0 | N | C |  |  | D |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | T | A | N | 0 | U |  |  |  |
|  |  | C | D | A | E | N |  |  |
| C | U | 0 | E |  |  |  |  |  |
| $\mathbf{A}$ | D | E | T | C | N | 0 |  |  |
| T | N |  | 0 | U | D |  |  |  |
|  | C | T |  |  | 0 | U |  |  |
|  | E | D | U | N | T | A |  |  |
|  | A | U |  | D | C | E |  |  |

Puzzle 24

|  | 0 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D |  | N | A | E | C |  | U |  |
|  | T | C | D | 0 | N | E |  |  |
| $\mathbf{C}$ | U | E | 0 | A | D |  |  |  |
| $\mathbf{A}$ | N |  | E | C | 1 | D | 0 |  |
| T | D | 0 | N | U |  | C |  |  |
|  | A | U | C | N | 0 |  | D |  |
|  | E | T | 1 | D | A | U | N |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 25

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | E | D | U | C | A | N |  |  |
|  | C | A |  | N |  |  |  |  |
|  | 1 | 0 | N | D |  |  |  |  |
|  | D | U | C | A |  |  |  |  |
|  | A | C |  | 0 |  | D |  |  |
|  | U | N | 0 | E | C | A |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 26


Puzzle 28

| D | T | E | A | U | N | C | O | I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| A | O | C | I | T | E | D | U | N |
| $\mathbf{I}$ | N | U | D | O | C | A | T | E |
| C | A | T | E | D | I | O | N | U |
| N | U | I | O | C | T | E | D | A |
| O | E | D | U | N | A | T | I | C |
| U | C | A | T | I | O | N | E | D |
| E | I | O | N | A | D | U | C | T |
| T | D | N | C | E | U | I | A | O |

Puzzle 30

| O | A | U | D | N | T | C | I | E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T | N | C | A | I | E | D | U | O |
| E | D | I | O | U | C | A | T | N |
| A | U | T | E | D | I | O | N | C |
| $\mathbf{I}$ | O | N | C | T | A | U | E | D |
| C | E | D | U | O | N | T | A | I |
| N | C | A | T | E | D | I | O | U |
| D | I | O | N | A | U | E | C | T |
| U | T | E | I | C | $\mathbf{O}$ | N | D | A |

Puzzle 31

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | c |  |  | 1 | D | U | T | A |  |
|  | 1 |  |  | 0 |  | N | C |  |  |
|  | A |  |  | U | C |  | D |  |  |
|  | E |  |  | N |  |  |  |  |  |
|  | U |  |  |  | 0 |  | E |  |  |
|  |  |  |  | A |  |  | N |  |  |
|  |  |  |  |  | N |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

Puzzle 33

| $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{A}$ |
| $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{U}$ |
| $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{D}$ |
| $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{C}$ |
| $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{T}$ |
| $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{E}$ |
| $\mathbf{N}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{O}$ |
| $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{I}$ |

Puzzle 35

| $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{O}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{A}$ |
| $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{D}$ |
| $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{N}$ |
| $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{T}$ |
| $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{I}$ |
| $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{U}$ |
| $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{E}$ |
| $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{C}$ |

Puzzle 34

|  | N | A |  |  | C |  | D |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | 0 | T | E | N | U | A |  |  |
| U |  | C | A | 1 | D | 0 | E |  |
| C | D | N | U | E | T |  | A | 0 |
| A | E | 1 | 0 | D | N | C | U |  |
| T | U | 0 | C |  | A | D | N |  |
| I | T | E | D | U | 0 | N |  |  |
| 0 | A | U | N | C | 1 | E | T |  |
|  | C | D | T |  | E | U | 0 |  |

Puzzle 32

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | C | 0 | U | N | E | A |  |  |
|  | N |  | 0 |  |  |  |  |  |
|  | A | C |  |  |  |  |  |  |
|  | E |  | N | D | C | 0 |  |  |
|  | 0 | D | E |  | A | C |  |  |
|  | U | A | T | 0 |  | N |  |  |
|  |  |  | D |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 36

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | 0 | T | N |  |  |  |  |
|  | 1 | C | A | D |  | 0 |  |  |
|  | U | 1 | D | 0 |  |  |  |  |
|  | E | D | C | U | N | T |  |  |
|  | 0 | N | E | A |  | D |  |  |
|  |  |  | 0 |  |  | N |  |  |
|  | C |  | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 37

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | D | T | U | N |  |  |  |  |
|  | A |  | D | T |  | C |  |  |
|  | N | D | C | E |  | T |  |  |
|  | T |  | 0 | A | D | N |  |  |
|  | C |  | N |  |  | 0 |  |  |
|  |  |  | A | D |  |  |  |  |
|  | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 38

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | D | A | N | C | E | 0 |  |  |
|  | C | U | 0 |  |  | N |  |  |
|  | N | T | C |  |  |  |  |  |
|  | E |  | D | A |  | C |  |  |
|  |  | D | I | N |  | A |  |  |
|  | A |  | T |  | N |  |  |  |
|  | T | C | E | D |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 39

| $\mathbf{E}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{U}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{I}$ |
| $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{E}$ | $\mathbf{O}$ |
| $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{T}$ |
| $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{D}$ | $\mathbf{C}$ |
| $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{E}$ |
| $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{O}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{D}$ |
| $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{A}$ |
| $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{N}$ |

Puzzle 41

| $\mathbf{U}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{T}$ |
| $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{A}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{C}$ |
| $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{I}$ |
| $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{D}$ | $\mathbf{E}$ |
| $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{A}$ |
| $\mathbf{C}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{E}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{N}$ | $\mathbf{A}$ | $\mathbf{D}$ |
| $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{C}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{U}$ |
| $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{O}$ |

Puzzle 40

|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | U | A | D | E |  | C |  |  |
|  | E |  | T | C | N |  |  |  |
|  | C | E |  | N |  | 0 |  |  |
|  | 0 | N | U | A |  | T |  |  |
|  | A |  | C |  |  | N |  |  |
|  |  |  | N |  |  | E |  |  |
|  |  |  | E |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

Puzzle 42

| $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{U}$ | $\mathbf{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{D}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{I}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{C}$ |
| $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{N}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{A}$ | $\mathbf{D}$ |
| $\mathbf{A}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{T}$ | $\mathbf{N}$ | $\mathbf{C}$ | $\mathbf{E}$ |
| $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{O}$ | $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{I}$ | $\mathbf{U}$ |
| $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{I}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{A}$ |
| $\mathbf{I}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{N}$ | $\mathbf{E}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{T}$ |
| $\mathbf{N}$ | $\mathbf{D}$ | $\mathbf{T}$ | $\mathbf{I}$ | $\mathbf{C}$ | $\mathbf{U}$ | $\mathbf{A}$ | $\mathbf{E}$ | $\mathbf{O}$ |
| $\mathbf{E}$ | $\mathbf{A}$ | $\mathbf{C}$ | $\mathbf{T}$ | $\mathbf{D}$ | $\mathbf{O}$ | $\mathbf{U}$ | $\mathbf{N}$ | $\mathbf{I}$ |

