## Alpha Order

Numbers are easy. We know that 9 comes before 10 . Sorting letters is tougher. Which comes first, J or I? Most of us have to sing the " ABC " song to be sure.

- Dictionary lookups
- Alphabetizing lists
- Sorting forms

Solution: Link each letter to its own number! Then memorize each pairing.

| $\mathbf{A}$ | $\mathbf{B}$ | $\mathbf{C}$ | $\mathbf{D}$ | $\mathbf{E}$ | $\mathbf{F}$ | $\mathbf{G}$ | $\mathbf{H}$ | $\mathbf{I}$ | $\mathbf{J}$ | $\mathbf{K}$ | $\mathbf{L}$ | $\mathbf{M}$ | $\mathbf{N}$ | $\mathbf{O}$ | $\mathbf{P}$ | $\mathbf{Q}$ | $\mathbf{R}$ | $\mathbf{S}$ | $\mathbf{T}$ | $\mathbf{U}$ | $\mathbf{V}$ | $\mathbf{W}$ | $\mathbf{X}$ | $\mathbf{Y}$ | $\mathbf{Z}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |

## Rhymes

C3: cee-three
H8: aach-eight
L12: ell-twelve

19: ii-nine

T20: tee-twenty
Y25: wii-twentyfive

By 5's

| "ee-JOH-tee" |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{E}$ |  | $\mathbf{J}$ |  | $\mathbf{O}$ | $\mathbf{T}$ | $\mathbf{Y}$ |  |
| 5 |  | 10 |  | 15 |  | 20 |  |

## Shapes



Shift lower left line to make a 5 .
$\mathrm{F} \rightarrow \mathrm{b} \rightarrow 6$
Flip \& make into a 6.
$K \rightarrow K \rightarrow 11$
Split into 1 \& 1.
$M \rightarrow \mathbf{3} \rightarrow 13$
Rotate into a 3. $\underline{\text { Middle letter }=13 .}$


Flip \& extract 1.

## SIMILARITIES



B2 \& V22
$B$ has 2 lobes. V has 2 tops.
$B$ rhymes with $V$.

F6 \& P16
$F$ and $P$ flip into 6 's.

M13 \& W23
$M$ has 3 bottoms.
$W$ has 3 tops.

G7 \& Q17
G \& Q have
similar shapes.


Split into $1 \& 7$.


Extract 1 \& make an 8.


Extract 1 and make a 9.


Rotate into a 3. Near Z $=23$.


Tilt \& make a 4. Near Z $=24$.

## Miscellaneous

- D4: 4 space-time Dimensions-length, width, height, and time.
- G7 nations: Canada, France, Germany, Italy, Japan, U.K., U.S.
- T20: Twenty starts with T.
- U21: 2-sided Unit(1).

Ascending vs. Descending Order

- Ascending Order: A-Z and 1-26.
- Descending Order: Z-A and 26-1.

Imagine
AZcending a mountain!


## Sorting Paper Forms

Place items in the following 5 piles. Alphabetize each pile. Combine piles.


Fill in the number of each letter in this phrase, which contains all 26 letters.

| Q | U | I | C | K |  | B | R | O | W | N |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |


| $F$ | $O$ | $X$ |  | $J$ | $U$ | $M$ | $P$ | $S$ |  | $O$ | $V$ | $E$ | $R$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| T | H | E |  | L | A | Z | Y |  | D | O | G |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |

Convert the following numbers into a phrase.

| 12 | 5 | 20 | 20 | 5 | 18 |  | 14 | 21 | 13 | 2 | 5 | 18 | 19 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| 1 | 9 | 4 |  | 1 | 12 | 16 | 8 | 1 |  | 19 | 15 | 18 | 20 | 9 | 14 | 7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

