Assigning $A = 1$, $B = 2$ etc., the letters forming the first and second halves of a word with an even number of letters sometimes make a **Numerical Tautonym** (see WW70010, 70151, 70244, 71185) or a **Numerical Palindrome** (see Word Ways 96242, 97066). SPEAKING = 41.41 and POETRY = 36.63 respectively, are examples of the two genres.

Alternate Numeracy is more complex. Here it is the alternate letters of a word which command attention. Consider the 12-letter word IMPONDERABLE and the 8-letter word SOFTENED:

$$\begin{align*}
I + P + N + E + A + L &= 57 \\
S + F + E + E &= 35 \\
M + O + D + R + B + E &= 57 \\
O + T + N + D &= 53
\end{align*}$$

IMPONDERABLE is what I call an **Alternate Numerical Tautonym** and SOFTENED an **Alternate Numerical Palindrome**. In this capacity, IMPONDERABLE can be written as $57/57$ and SOFTENED as $35/53$.

All the words below have an even number of letters. This is so the two numerical totals in each case can be considered to be comparable in the context of having been derived from an equal number of letters. Where more than one word is listed, the words differ in length - ranging from 4 to 18 letters.

Letter tautonyms (TARTAR) and letter palindromes (HANNAH) are not included; complex medical and chemical words are also excluded. Plant families are included. Locations (italicised), identified by country, are only offered where no other word was found. They are taken from The United States Board on Geographic Names.

Most of the unreferenced words are taken from the Oxford English Dictionary, Second Edition.

Other references are: **Cham** = Chambers Dictionary; **Dor** = Dorland’s Medical Dictionary; **ospd** = Official Scrabble Players Dictionary; **p** = The Complete Word Game Dictionary by Pulliam & Carruth, 1984; **Sted** = Stedman’s Medical Dictionary; **w2** = Webster’s Second Edition

**WORDS WHICH ARE BOTH ALTERNATE NUMERICAL TAUTONYMS AND ALTERNATE NUMERICAL PALINDROMES**

The alternate letters of the word MYTH add up to identical totals ($M + T = 33; Y + H = 33$) which, together (33/33), can be viewed as both an alternate numerical tautonym (ANT) and an alternate numerical palindrome (ANP).

11/11 decade
22/22 cereal
33/33 myth pallet dupeable highjacked
44/44 Styx (a river of Hades) enzyme solvable nonglacial Brucellaceae (a family of protobacteria)
55/55 sloppier
66/66 stultify whiskylike
77/77 abstrusity
88/88 prehostility
99/99 laryngo-pharynx
ALTERNATE NUMERICAL TAUTONYMS

04/04
05/05 Cabd (Jordan) note: this location is made from the letters A, B, C and D.
06/06 bade
07/07 Cebaba (Peru)
08/08 geac (OE fool)
09/09 head
10/10 hebe (a plant)

12/12 caik (cake) cadged
13/13 Leah chebec (a three-masted vessel)
14/14 bile
15/15 abelia (a plant - Cham) dahabeah (a large Nile sailing boat)
16/16 bing hacked
17/17 damp eagled
18/18 clof (a cleft) biddle (beatle)
19/19 gold flable (a fan)
20/20 hole Angela
21/21 hemp camber

23/23 kiln dances amicable
24/24 refs feelable
25/25 limp afford breakage
26/26 lune bionic loadable
27/27 foul coshed kickable
28/28 slip entice jeepable
29/29 into begets adorable
30/30 rely cement redacted
31/31 romp bakery uncabled cicadellid (insect - Cham)
32/32 musk hissed educatee (a nonce word) Cariamidae (bird family - Cham)

34/34 tiny allium Hellenic decaudated
35/35 post remedy henchmen alkalified
36/36 yuko (5 points in judo - Cham) sulked adapting befriended
37/37 Prus upkeep mannered unacademic
38/38 Croats chanting reduceable
39/39 roux whelks Grenoble hammerable
40/40 tuts pastes repealer Calabrians
41/41 wurt (a medicinal plant) anonym soldered Cyperaceae (the sedge family - w2)
42/42 rosier rejoices chamfering
43/43 rwyt (rue = regret) tories broiling repackages

45/45 splint writable economical diabolical
46/46 paltry adverser abdicators biflagellate
47/47 owners smarming Battenberg indeprecable
48/48 skirts butchers Carolinian decasyllabic
49/49 rosily aspirant microbeams
50/50 plummy alpinist unattacked semichemical (w2)
Sprinz (surname) bloopers negligibly Sillaginidae (a family of coast fishes of Asia - w2)
nuzzle fourteen clarifying interbalance
torsos dirtless rebuttable archegoniate
smooty business decentness prepackaging
octuplet concordats disheartened
sprutt (sprout) conquest shoplifted imponderable
thirty (thirty) knitters churchless definability
rousty (rusty) splotchy homologise highmindedly
fuzziest unfragrant canonistical
blustery transepted centrepieces (Cham)
cluttery propelling cosmological
glowworm conformers albumenising (Cham)
blushiness imitableness
curteys deportment impenetrated
twitters antioseviet acousticians angioneuralgia (Sted)
outpulls (w2) blueprints conducements defibrillation
polyzoon meticulous ambitionless
styluses ostensibly nonbarbarous (w2) dematerialises
snuzzles dishonours fearlessness nonforfeitable (w2)
convulsion corporealism Rhinocerotidae (w2)
growthless bathyspheres investigatable (w2)
countrymen counterweigh realizableness
slothfully cartophilist changelessness
construers detrimental enchantingness
pertusions storekeepers unadministered circumesophageal (w2)
precursory contributive freakishnesses (w2)
unlustiest (p) spermatocyte demasculinizes (Sted) condensabilities
zoolatrous brunetteness claustrophobic
outwinters crustalogist cindricality (w2)
y-hyposulphate multiplicant pre-Shakespearian
attractivity (w2) granuloplastic (Sted) prespecification (w2)
melifluous (w2) Marianolatrist undisinheritable
histologists reprehendatory dispensabilities
misconstruct authenticators ecophysiological
exiguousness effectuousness trithiocarbonate
transitoriily extraplanetary hypergeometrical (w2)
stridulatory executioneress reincarnationism
mystifyingly autoregressive pneumosepticemia (Dor)
frictionlessly controllableness (w2)
storytellers (Cham) recompressions agrotechnologist
suppressions inspectorships interspecificity
supportingly enteroneuritis (w2) nonjudgementally (Cham) dispersoidological (w2)
storyologist coquettishness nondeterminately
roisterously (w2) unconspiringly (w2)
ALTERNATE NUMERICAL PALINDROMES

02/20 arab
03/30 Aeby (both a Christian name and a surname)
04/40 bubs
05/50 clarat (claret)
06/60 awards
07/70 Anamboambo (Madagascar)
08/80
09/90
12/21 coif bocage (woodland)
13/31 alls (also) bobbin
14/41 Ives (St. Ives is in Cornwall, England) heaven bedrabbled
15/51 arisen Indianan
16/61 Freyer (a surname) credency
17/71 algraphy (printing from aluminium plates)
18/81 excretes
19/91 Ivashyay (Lithuania)
20/02 pada (an Indian lyrical poem set to music)
21/12 bask banged caddiced (w2)
23/32 dusk feebly ascended
24/42 crux copier Ichabodian
25/52 swayed chancery
26/62 frisky kyanised (Cham) coalescing
27/72 bytwex (betwixt) expiates
28/82 Indianizes
29/92 driography (a printing process)
30/03 larb (p) banana
31/13 marl gashed Naiadaceae (aquatic plant family)
32/23 yogh raider radialia
34/43 stow jester decahedron
35/53 jotter attainer Coriariaceae (a plant family - w2)
36/63 openings malignancy
37/73 subtotal glamorized
38/83 expulses crownmaker (w2)
39/93 crithology (the gathering of barley)
40/04 scua (skua) Fatagaga (an electronic musician from Germany)
41/14 warm mashie (an iron club in golf)
42/24 vets paused amperage gibble-gabble
43/34 Roys strife schedule aboundable
45/54 inputs situated alternades
46/64 syrtis (a quicksand) frostier
47/74 twazzy (peevish - w2) grizzler endotherms consolidated
48/84 coprisoner (w2)
49/94 privations frigorimeter (a low temperature thermometer - w2)
50/05 Jaybhaga (Bangladesh)

51/15 serene Sechoana (language)
52/25 parers jargonic back-washed Piedraiaceae (a fungi family)
sanity annexing absconding
shorts thirteen afflicters

gotropy carburizer (w2) infidelities
ruptions astringer (a keeper of goshawks)
sunsetty frequently
antioxidizer (w2)
Yandua (Fiji)
octangle
sixish laterals marchantia (plant genus)
curative depainting
rightist weathering
scissors Zimmenthal displacement
twistors contortion
platypuses
poltergeists
Sasandra (Ivory Coast)
Sazoa (DR Congo)
misdrive fore-palate
partying famulative
trueness wifeliness
puttying remorseful
spatorium outrolling
outwritten (w2) pneumotropic (Dor)
overgrievous (w2)
Zavaleta (Argentina)
verb-adverb
zionward
unremarkable
relinquish
optimisers unsquandered
unorthodox unwieldiness
trustingly intervention
soliloquists
Talasanaye (Afghanistan)
Warapotana (Sri Lanka)
televerite (Cham)
paratorium (w2)
womanizers
scrutators unsignifying
stutterers spiritualize
reupholsters
southernmost termitophagous (feeding on termites)
DUAL STATUS WORDS

TAUTONYMS
The word CAVEAT is both a NT and an ANT (both 26 26). Thus it is a Dual Status Numerical Tautonym which involves 2 numerically-different digits. Here are others of this genre:

- BALAAM (a prophet) = 15.15 (NT) 15/15 (ANT)
- FLABEL (a fan) = 19 19
- HELPED = 25 25
- BIONIC = 26 26
- ECAUDATE = 30 30
- ASPISH = 36 36
- BOREHOLE = 40 40
- DECAUDATED = 34 34
- REVUES = 45 45
- VENERER = 46 46
- REPACKAGES = 43 43
- MOUTON = 49 49
- PORTON = 49 49
- TUMOUR, SINGINGS and PORTON = 49 49
- PALINDROMES
- RACIAL is a B.
- A. those in which the NP and
- C.
- PALINDROMES
- Dual Status Numerical Palindromes are less restricted. They can be divided into the following categories:

A. those in which the NP and ANP are the same
- HEAVEN = both 14 41
- JESTER = both 34 43
- FOAMiEST = both 35 53
- CONTORTION = both 67 76

B. those in which the 2 NP digits swap positions in the ANP
- CADDEICED = 12.21 (NP) 21/12 (ANP)
- SEWS = 24.42 (NP) 24/24 (ANP)

C. those in which the NP and ANP are different
(i) either the NP or ANP is configured from a single repeated digit:

- a) NP configured from a single repeated digit
  - SCUA (skua) = 22.22 (NP) 40/04 (ANP)
  - ARCHIE = 22.22 (NP) 13/31 (ANP)
- UNITES, PUGGLY (poggle), TWAYNE (twain) and EPAGOMENIC (intercalary days) = 44.44 (NP) 35/53 (ANP)
- UNHASPED and ANTIMASK = 44.44 (NP) 53/35 (ANP)
- SONGLESS = 55.55 (NP) 64/46 (ANP)
- PARTYING = 55.55 (NP) 73/37 (ANP)

- b) ANP configured from a single repeated digit
  - ACUS = 04.40 (NP) 22/22 (ANP)
  - DIKERS = 24.42 (NP) 33/33 (ANP)
  - UNCOOKED = 53.35 (NP) 44.44 (ANP)
  - GAMESTER = 26.62 (NP) 44/44 (ANP)
  - DILUTEST = 46.64 (NP) 55/55 (ANP)
  - ACIDOPHiLOUS = 48.84 (NP) 66/66 (ANP)
  - SPEARWORTS = 59.95 (NP) 77.77 (ANP)

(ii) neither the NP nor the ANP is configured from a single repeated digit
- BASK = 03.30 (NP) 21/12 (ANP)
- WIRE = 32.23 (NP) 41/14 (ANP)
- ALLEGORIZE = 37.73 (NP) 64/46 (ANP)
- TUCK = 41.14 (NP) 23/32 (ANP)
- SUDANiZe = 45.54 (NP) 63/36 (ANP)
- MISDRiVe = 45.54 (NP) 72/27 (ANP)
- GEOTROPy = 47.74 (NP) 56/65 (ANP)
- EXPIATES = 54.45 (NP) 27/72
- CYANOTYPES = 58.85 (NP) 49/94 (ANP)
- ZIONiWARD = 64.46 (NP) 82/28 (ANP)
- FROZENLY = 65.56 (NP) 38/83 (ANP)
- FREQUENTLY = 67.76 (NP) 58/85 (ANP)
- BILIPURPURIN = 69.96 (NP) 78/87 (ANP)
- SCHISANDRACEAE (= Magnoliaceae -w2) = 73.37 (NP) 82/28 (ANP)
- SYNOViALLY = 59.59 (NP) 68/86 (ANP)

MULTI-STATUS WORDS

RACIAL is a Multi-Status Word. It is a NT, NP, an ANT and an ANP, each represented by 22 22. Similarly, DEXIES (ospd) has a 4-way claim to 33 33, whilst REFOOTED and UNDEREAT each have a 4-way claim to 44 44.

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nb. Alternate Letter Numeracy also produces results in fields other than tautonymic and palindromic ones. Below are examples of Alternate Numerical Number Sequences:

- JOBS = 12/34
- CLONES = 23/45
- AUTUMN = 34/56
- WATT = 43/21
- URSINE = 54/32
- VACATIONER = 65/43
- GREYNESS = 45/67
- COMPONENTS = 56/78
- CRYPTOLOGY = 67/89
- OUTSWARM = 76/54
- RAVENOUSLY = 87/65
- VERMIFORMOUS = 98/76

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