TRIANGULAR PROGRESSIONS

SUSAN THORPE
Great Missenden, Buckinghamshire, England
thorpeds@hotmail.com

Consider the word QUILL S. Arrange the letters, in order, to make a triangle:

Q
U
I
L
L
S

Now assign the letters their numerical positions in the alphabet (A = 1, B = 2 etc). The result is Q = 17; U + 1 = 30, and L + L + S = 43. The difference between the 1st and 2nd rows (30 - 17) is 13 and, hey presto, the difference between the 2nd and 3rd rows is also 13 (43 - 30)!

Below are triangular representations of 6-letter words exhibiting two numerically-identical progressions. The progressions range from 1 to 30.

Unless specified otherwise, words can be found in the Oxford English Dictionary, Second Edition.

   U   N   H   S   R
   P   O   C   E   D
   A   K   E   D   N
   G   E   P   A   S
   S   N   T   L   S
   unhard    pocked    Ang    red    des

   R   E   G   I   N   S
   M   E   L   G   N
   I   N   A   V   resign
   T   E   T   D   paving matted
   L   E   S   N   T
   shored - nb.transposals - Rhodes

Below are triangular representations of 6-letter words exhibiting two numerically-identical progressions. The progressions range from 1 to 30.

   Y   O   U   T   S
   I   N   G   I
   A   V   T   E
   S   E   T   D
   S   E   S
   knights coated kipper misses

   C   T   A
   R   Z   E
   A   N
   S   D
   U
   castle Araner (inhabitant of Aran) dinners baulks

21. (1.22.43) 22. (19.41.63) 23. (5.28.51) 24. (5.29.53) 25. (3.28.53)
   M   I   T   O   Z
   A   N
   E   E
   S   E
   O
   amidst sozzly (sloppy - Chambers) ennuye emptor comply

26. (3.29.55) 27. (1.28.55) 28. (2.30.58) 29. (7.36.65) 30. (3.33.63)
   C   I   T   M   O
   A   B
   U   L
   S   T
   U
   amount buists goutty corssy (corpulent)
   citryl (tar marks on sheep) (Heraldry: 'be sprinkled with drops')

Can anyone discover a 10-letter word triangle exhibiting three numerically-identical progressions?