TRIANGULAR PROGRESSIONS

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Consider the word QUILLS. 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 + I = 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.

1. (21.22.23)
U
N H
A R D
unhard

2. (16.18.20)
P
O C
K E D
pocked

3. (16.19.22)
P
E N
A N G
Penang

4. (19.23.27)
S
H O
R E D
shored – nb.transposals - Rhodes

5. (18.23.28)
R
H O
D E S

6. (18.24.30)
R
E S
I G N
resign

7. (16.23.30)
P
A V
I N G
paving

8. (13.21.29)
M
A T
T E D
matted

9. (18.27.36)
R
E V
E L S
revels

10. (19.29.39)
S
O N
N E T
sonnet

11. (25.36.47)
Y
O U
T H S
youths

12. (11.23.35)
K
N I
G H T
knight

13. (3.16.29)
C
O A
T E D
coated

14. (11.25.39)
K
I P
P E R
kipper

15. (13.28.43)
M
I S
S E S
misses

16. (3.19.35)
C
R A
Z E D
crazed

17. (3.20.37)
C
A S
T L E
castle

18. (1.19.37)
A
R A
N E R
Araner (inhabitant of Aran)

19. (4.23.42)
D
I N
E R S
diners

20. (2.22.42)
B
A U
L K S
baulks

21. (1.22.43)
A
M I
D S T
amidst

22. (19.41.63)
S
O Z
Z L Y
sozzly (sloppy - *Chambers*)

23. (5.28.51)
E
N N
U Y E
ennuyé

24. (5.29.53)
E
M P
T O R
emptor

25. (3.28.53)
C
O M
P L Y
comply

26. (3.29.55)
C
I T
R Y L
citryl

27. (1.28.55)
A
M O
U N T
amount

28. (2.30.58)
B
U I
S T S
buists
(tar marks on sheep)

29. (7.36.65)
G
O U
T T Y
goutty
(Heraldry: 'be sprinkled with drops')

30. (3.33.63)
C
O R
S S Y
corssy (corpulent)

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