

Series

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Types of Number Series

① Addition → (a) 2, 6, 10, 14, 18, 22

(b) 5, 7, 10, 14, 19, 25
 $+2$ $+3$ $+4$ $+5$ $+6$

② Subtraction → (a) 52, 49, 46, 43, 40

(b) 128, 120, 113, 107, 102
 -8 -7 -6 -5

③ Multiplication → (a) 3, 12, 48, 192, 768

④ Division → (b) 1, 1, 1.5, 3, 7.5, 22.5
 $\times 1$ $\times 1.5$ $\times 2$ $\times 2.5$ $\times 3$

$\times 1$ ✓
 $\times 1.5$ ✓
 $\times 2$ ✓
 $\times 2.5$ ✓
 $\times 3$ ✓

(c) 128, 64, 32, 16, 8, 4
 $\div 2$ $\div 2$ $\div 2$ $\div 2$ $\div 2$

④ Addition & Multiplication →

(a) 2, 5, 12, 27, 58, 121

$$2 \times 2 = 4 + 1 = 5$$

$$5 \times 2 = 10 + 2 = 12$$

$$12 \times 2 = 24 + 3 = 27$$

$$27 \times 2 = 54 + 4 = 58$$

$$58 \times 2 = 116 + 5 = 121$$

(b) 10, 12, 27, 85, 345

$$10 \times 1 = 10 + 2 = 12$$

$$12 \times 2 = 24 + 3 = 27$$

$$27 \times 3 = 81 + 4 = 85$$

$$85 \times 4 = 340 + 5 = 345$$

⑥ Prime No 7, 11, 13, 17, 19
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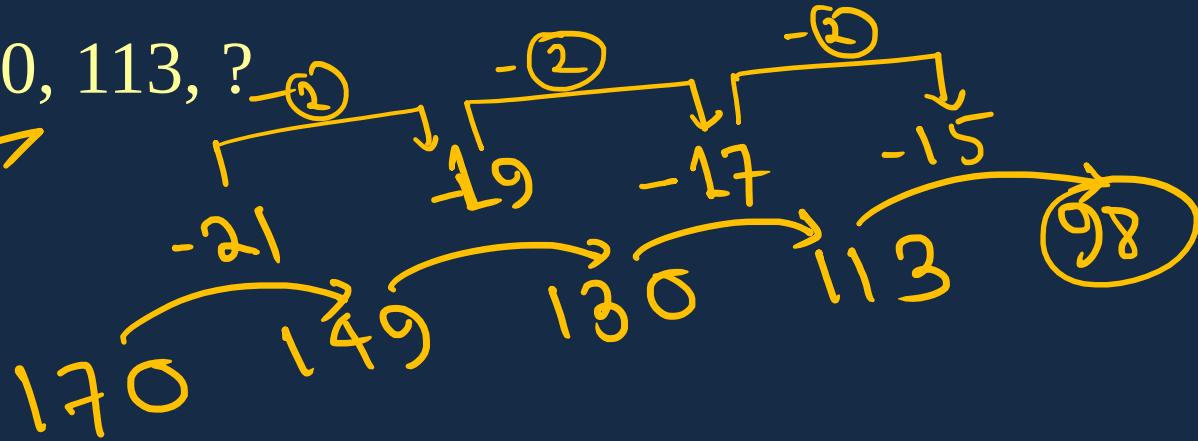
⑦ Square No 4^2 16, 6^2 36, 8^2 64, 10^2 100, 144 12^2

⑧ Cube No 216, 343, 512, 729, 1000, 1331
 6^3 7^3 8^3 9^3 10^3 11^3

2, 3, 5, 7, 11, 13, 17, 19, 23,
 29, 31, 37, 41, 43,
 47, 53, 57, 59...

1. 170, 149, 130, 113, ?

- (a) 97
- (b) 98
- (c) 105
- (d) 115



2. 96782345, 6782345, 678234, 78234 ? 7823

- (a) 67814
- (b) 7825
- (c) 7823
- (d) 7884

3. ~~P~~N ~~P~~~~P~~O ~~N~~ ~~P~~~~P~~~~P~~N ~~N~~ ~~P~~~~P~~N O O ~~P~~N

How many times letter 'P' is present in given responses which preceding by a consonant and follow by a vowel.

• (a) 5 *ଅଟେ ୫ଟି*

• (b) 2

• (c) 1

• (d) none

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PPO

4. 2 1 9 5 4 6 8 4 1 6 9 8 4 1 3

How many odd number are present in the given series which is preceded by a perfect square and having followed by a odd number.

- (a) 2
- (b) 3
- (c) 4
- (d) 1

1 9 5

4 1 3

$$1^2 = 1$$

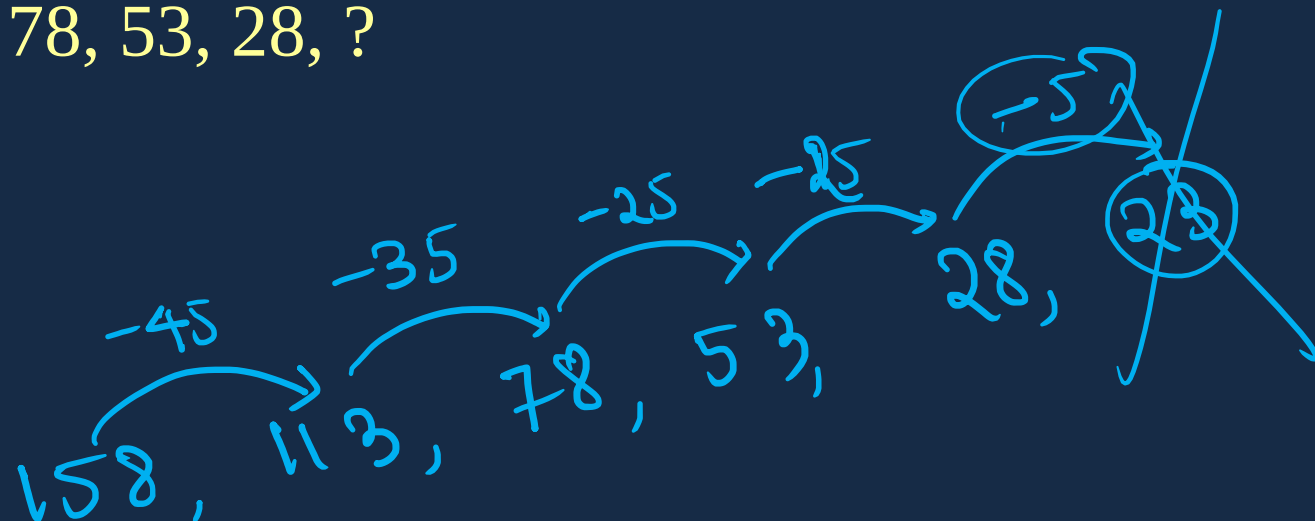
$$2^2 = 4$$

$$3^2 = 9$$



5. 158, 113, 78, 53, 28, ?

- (a) 13
- (b) 12
- (c) 11
- (d) 14



6. (Y, V, S, P, M, ?)

- (a) J
- (b) L
- (c) K
- (d) R



7. 25, 216, 49, ?, 81, 1000

- (a) 625
- (b) 512
- (c) 36
- (d) 48

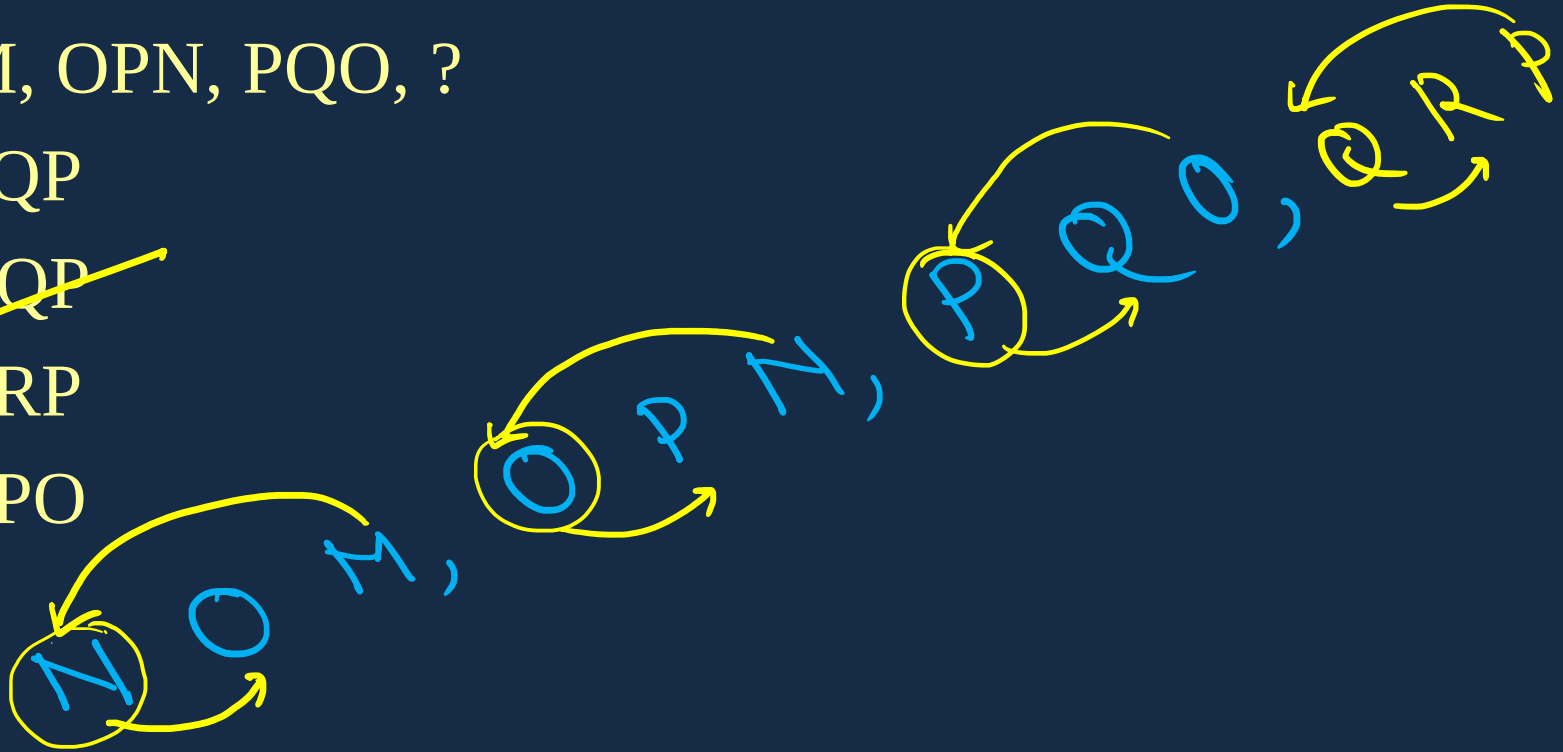
Handwritten solution showing the pattern of cubes:

$$\begin{array}{ccccccc}
 25 & , & 216 & , & 49 & , & 81 & , & 1000 \\
 \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow \\
 5^2 & & 6^3 & & 7^2 & & 9^2 & & 10^3
 \end{array}$$

The missing term is $8^3 = 512$.

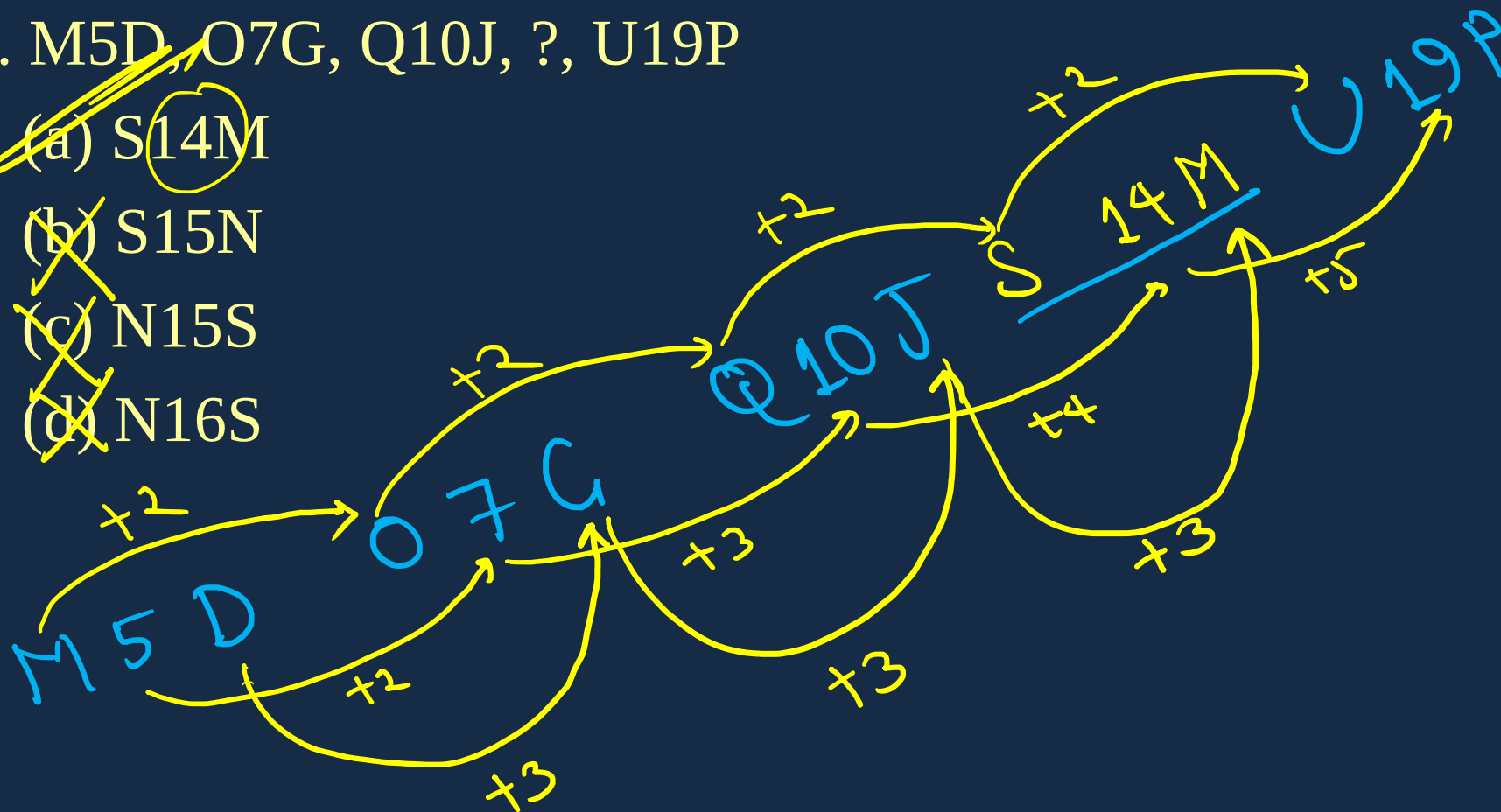
8. NOM, OPN, PQO, ?

- (a) RQP
- (b) OQP
- (c) QRP
- (d) RPO



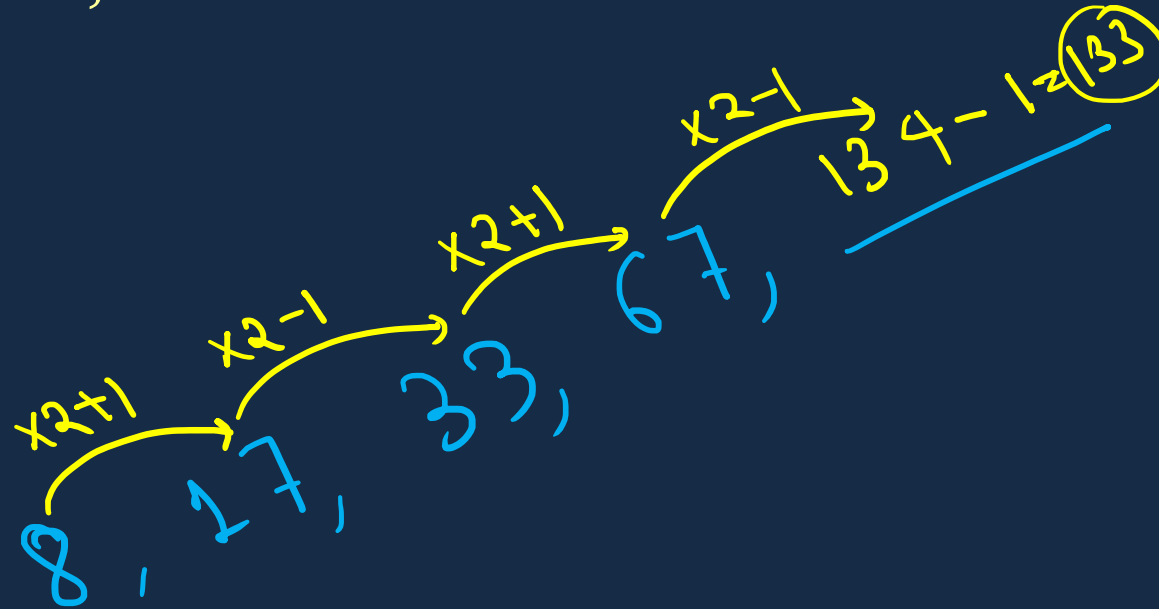
9. M5D, O7G, Q10J, ?, U19P

- (a) S14M
- (b) S15N
- (c) N15S
- (d) N16S



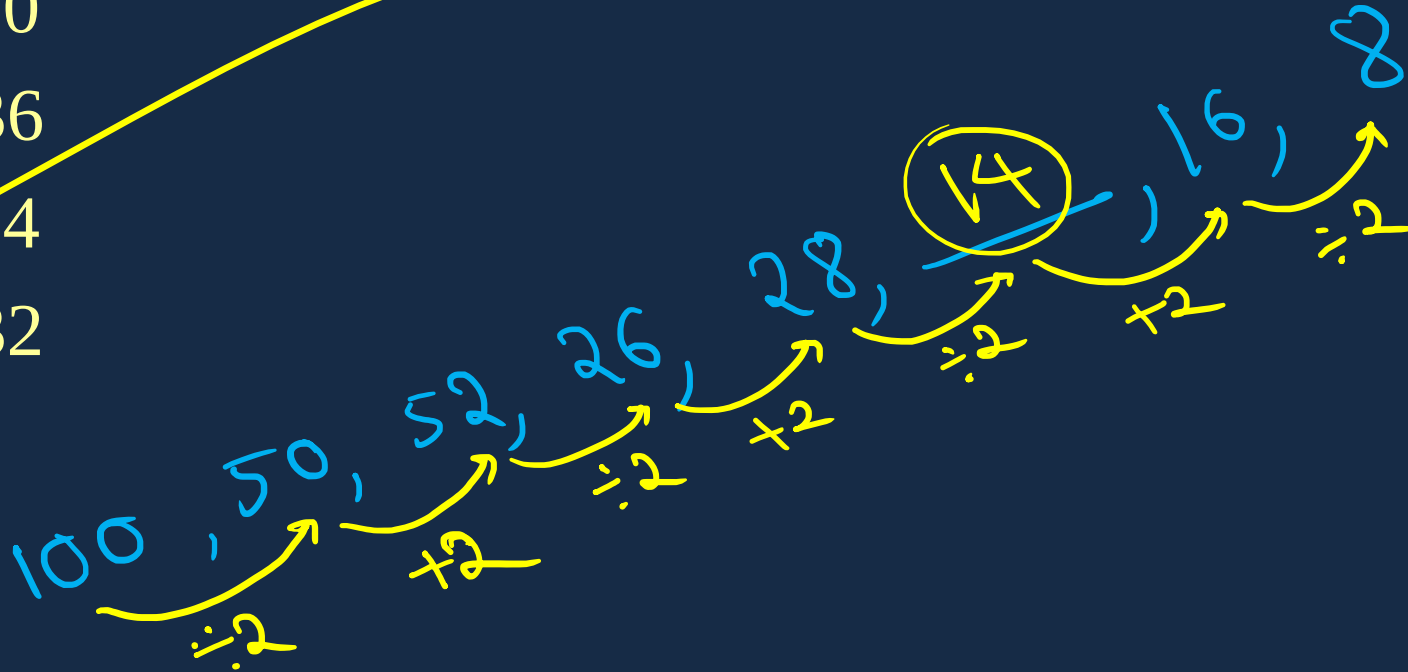
10. 8, 17, 33, 67, ?

- (a) 131
- (b) 132
- (c) 133
- (d) 135



11. 100, 50, 52, 26, 28, ? 16, 8

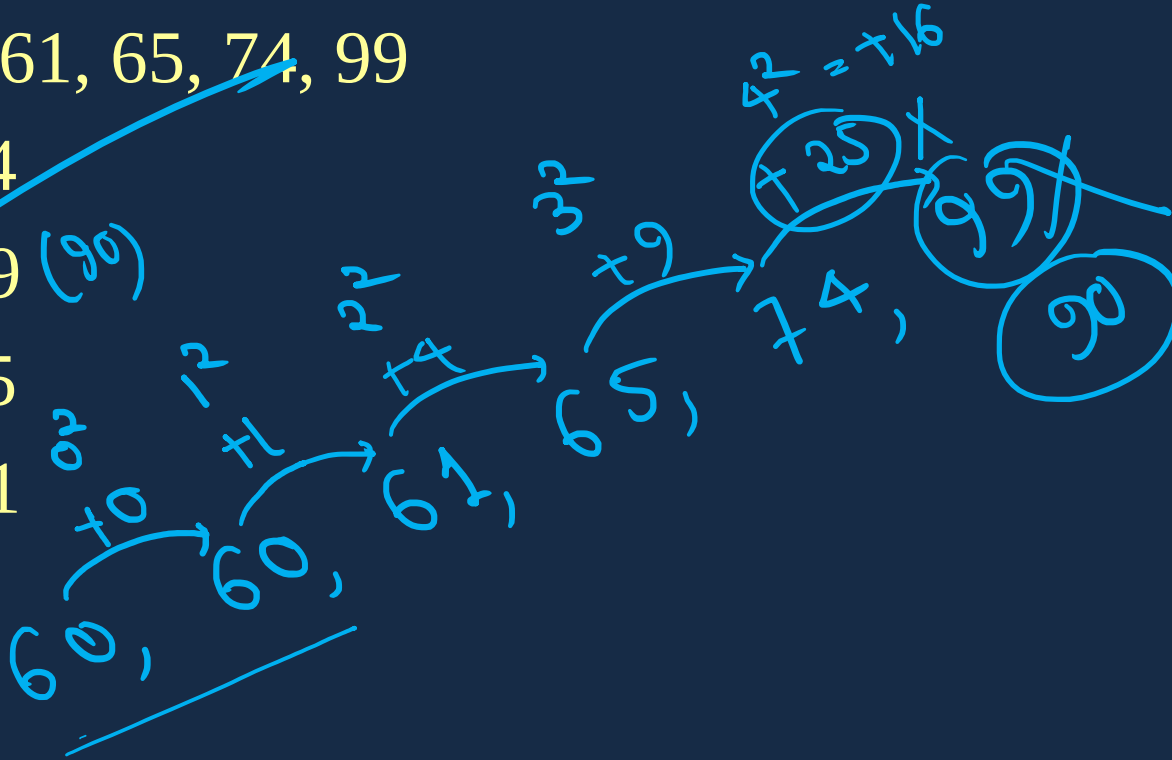
- (a) 30
- (b) 36
- (c) 14
- (d) 32



12. Find the wrong term in the following series.

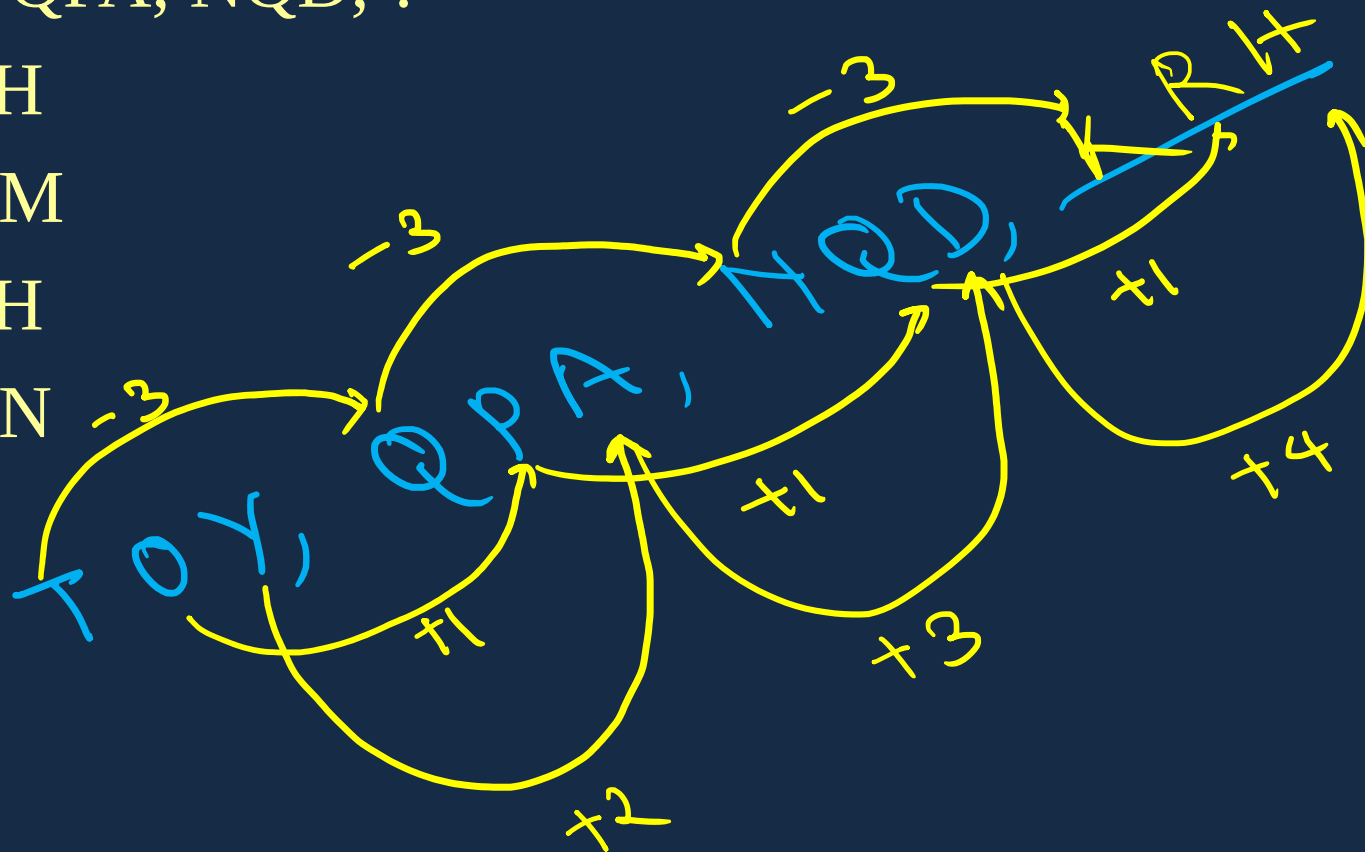
60, 60, 61, 65, 74, 99

- (a) 74
- (b) 99
- (c) 65
- (d) 61



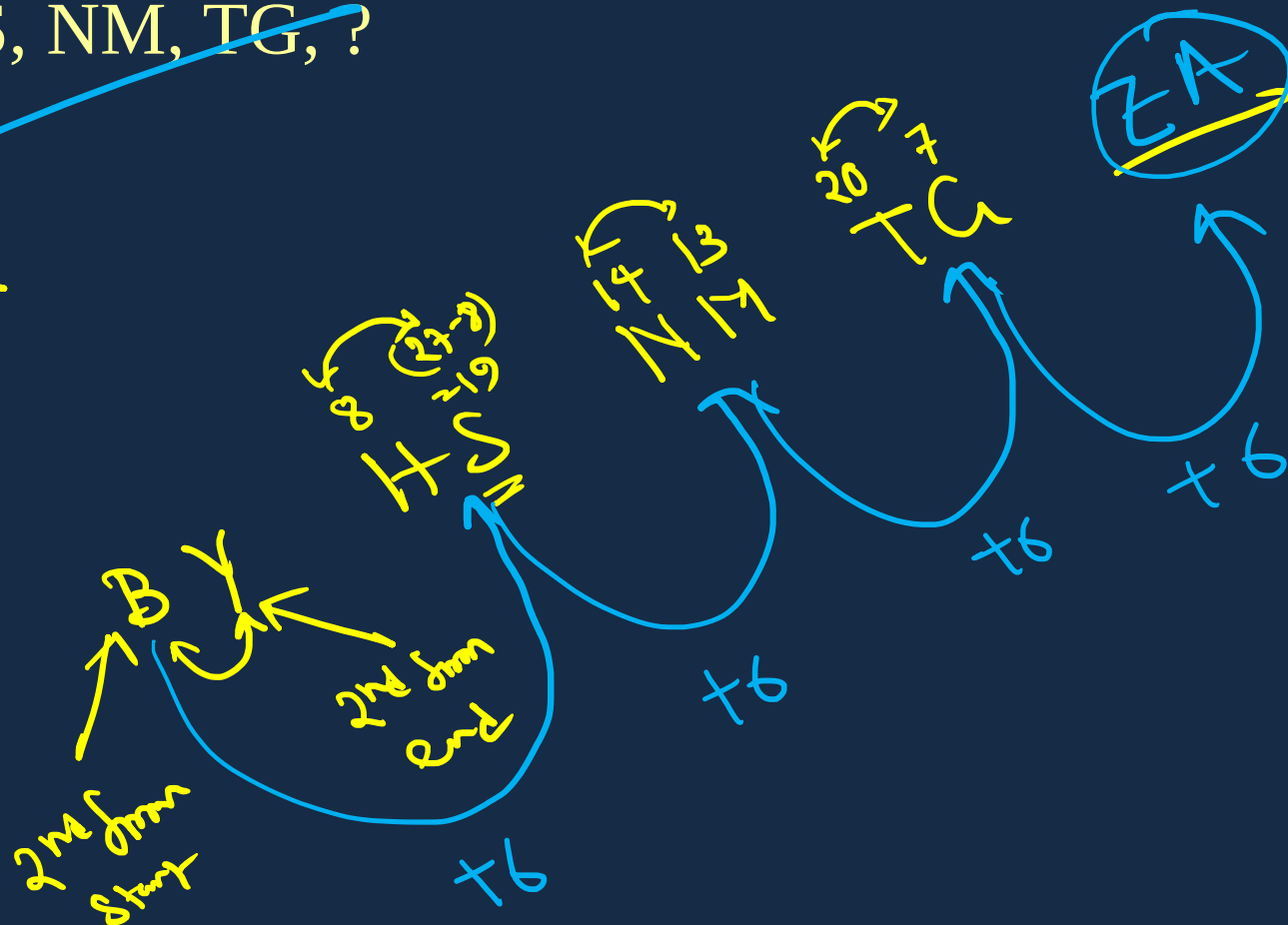
13. TOY, QPA, NQD, ?

- (a) RKH
- (b) HKM
- (c) KRH
- (d) KQN



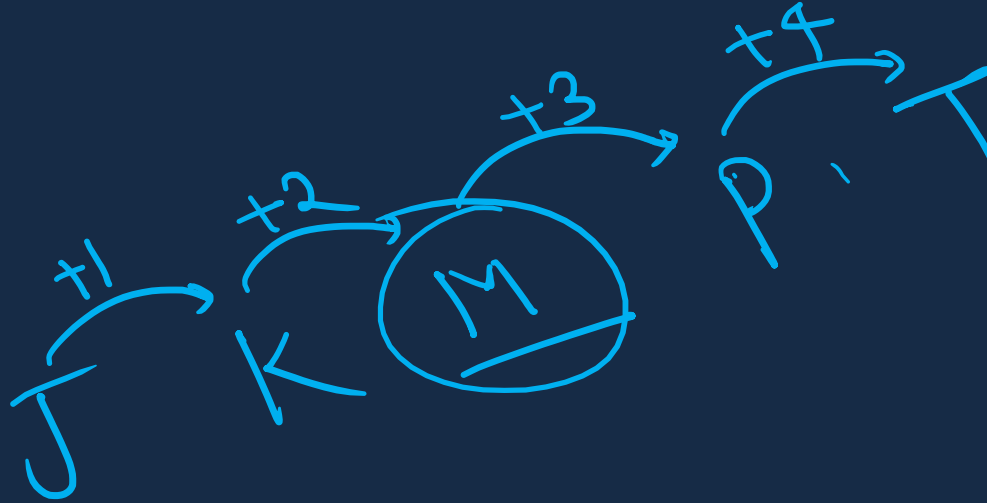
14. BY, HS, NM, TG, ?

- (a) AZ
- (b) ZA
- (c) CX
- (d) WD



15. J, K, ?, P, T

- (a) N
- (b) M
- (c) O
- (d) P



Thank You