

NUMBER SERIES

संख्या श्रृंखला

☐ NUMBER SERIES

1. SERIES BASED ON DIFFERENCE / अंतर पर आधारित श्रृंखला
2. SERIES BASED ON PRIME NUMBER/अभाज्य संख्या पर आधारित श्रृंखला
3. SERIES BASED ON SQUARE AND CUBE/ वर्ग और घन पर आधारित श्रृंखला ✓
- ~~4.~~ WRONG NUMBER SERIES / गलत नंबर पर आधारित श्रृंखला
5. ✓ ALTERNATE SERIES

Square / Cube

↓
30

↓
20

$$2^2 \rightarrow 4$$

$$3^2 \rightarrow 9$$

$$4^2 \rightarrow 16$$

$$5^2 \rightarrow 25$$

$$6^2 \rightarrow 36$$

Q) 5, 10, 17,

↑ ↑ ↑

2^2+1 3^2+1 4^2+1

26,

↑

5^2+1

? ~~7~~ 37

↑

6^2+1

Q) 122, 146, 172, 200, ? 230

\uparrow \uparrow \uparrow \uparrow \uparrow

11^2+1 12^2+2 13^2+3 14^2+4 15^2+5

$225+5$

$$11^2 \rightarrow 121$$

$$12^2 \rightarrow 144$$

$$13^2 \rightarrow 169$$

$$14^2 \rightarrow 196$$

$$15^2 \rightarrow 225$$

Q) 65, 128, 221, 350, ? (521)

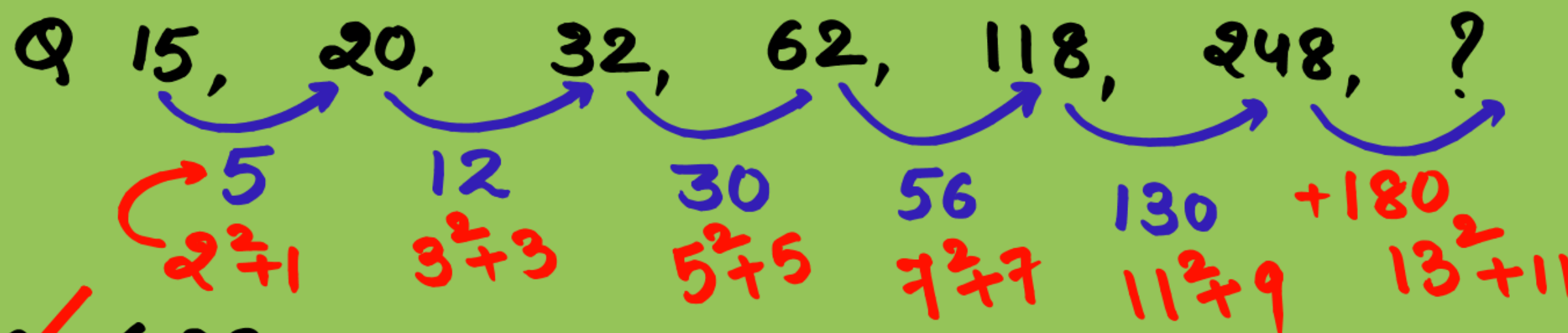
$$4^3 \rightarrow 64 + 1$$

$$5^3 \rightarrow 125 + 3$$

$$6^3 \rightarrow 216 + 5$$

$$7^3 \rightarrow 343 + 7$$

$$8^3 \rightarrow 512 + 9 \rightarrow (521)$$



~~a. 428~~

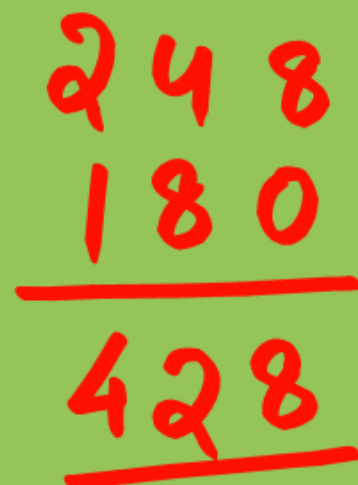
b. 322

c. 368

d. More than 1

e. None of these

Prime No. $\rightarrow 2, 3, 5, 7, 11, 13, 17, \dots$



A series is given with one term missing. Select the correct alternatives from the given ones that will complete the series.

एक श्रंखला दी गई है जिसमें एक पद लुप्त है। दिए गए विकल्पों में से वह सही विकल्प चुनिए जो श्रंखला को पूरा करे।

Q1. 22, 32, 43, 55, ? **68** अंतर / Diff.

+10 +11 +12 +13

Q2. 2, 12, 27, 47, ⁷²?, 102

+10 +15 +20 +25 +30

72

Ans

$$\begin{array}{r} 47 \\ + 25 \\ \hline 72 \end{array}$$

Q3. 5, 9, 17, 33, 65, ?

Q. 12, 26, 81, 328, ?

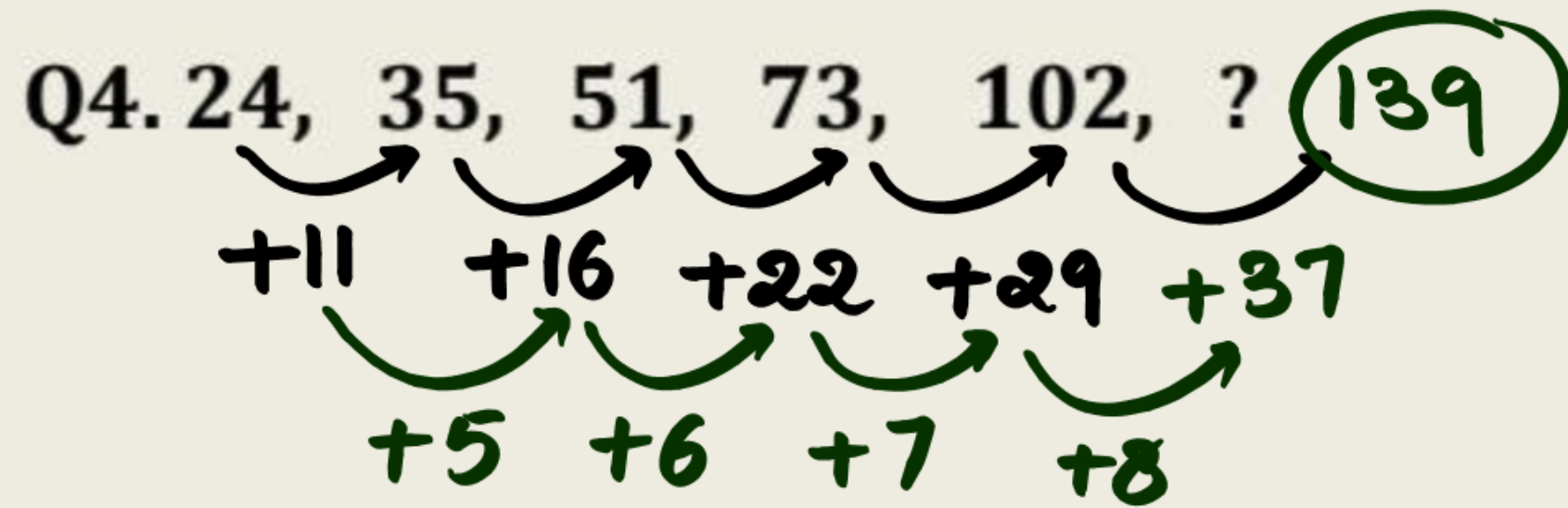
$\xrightarrow{\times 2+2}$ $\xrightarrow{\times 3+3}$ $\xrightarrow{\times 4+4}$ $\xrightarrow{\times 5+5}$

$$\begin{array}{r} 328 \times 5 \\ \hline 1640 \\ + 5 \\ \hline 1645 \end{array}$$

5 $\xrightarrow{\times 2-1}$ 9 $\xrightarrow{\times 2-1}$ 17 $\xrightarrow{\times 2-1}$ 33 $\xrightarrow{\times 2-1}$ 65 $\xrightarrow{\times 2-1}$ 129

$\times 2+1$ $\times 2+2$
 $\times 2+2$ $\times 3+3$
 $\times 2+3$ $\times 4+4$

1645 Ans



330

Q5. 186, 210, 258, 282, ?, 354

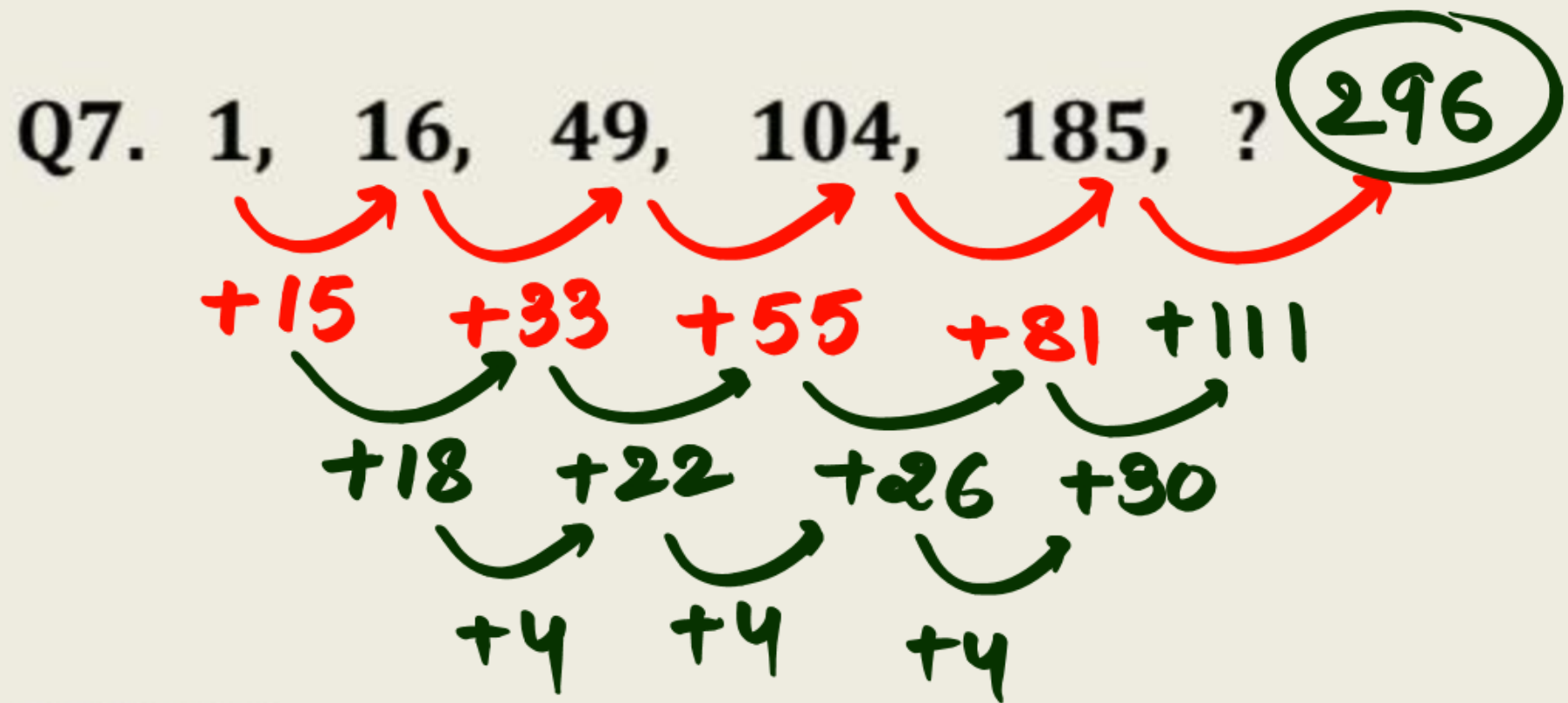
+24 +48 +24 +48 +24

$$\begin{array}{r} 282 \\ + 48 \\ \hline 330 \\ \hline \end{array}$$

Q6. 8, 24, 48, 80, 120, ? **168** — Ans =

+16 +24 +32 +40 +48

+8 +8 +8 +8



(1) 294

(2) 296

(3) 235

(4) 304

Q8. 211, 213, 216, 221, 228, ? **239**

+2 +3 +5 +7 +11

A. 237 ~~X~~

B. 238

~~C.~~ 239

D. 240

2, 3, 5, 7, **11**

→
Prime No.

Q9. 22, 35, 52, 71, 94, ? **123**

+13 +17 +19 +23 +29

A. 121

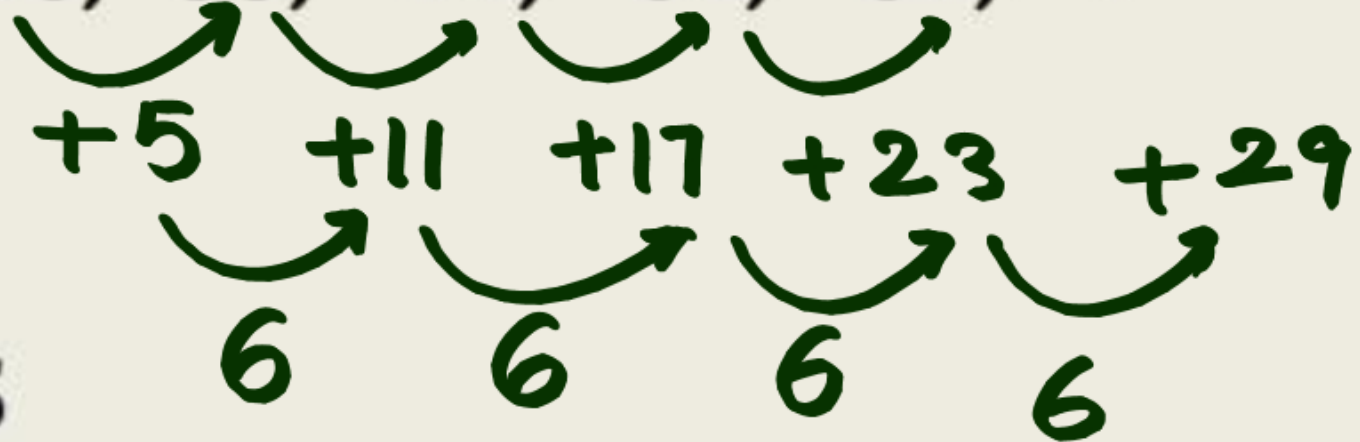
B. 123

C. 124

D. 126

Prime NO. \rightarrow 13, 17, 19, 23, 29, 31, 37, 41, 47
 \longrightarrow

Q10. 28, 33, 44, 61, 84, ?



A. 105

B. 115

~~C. 113~~

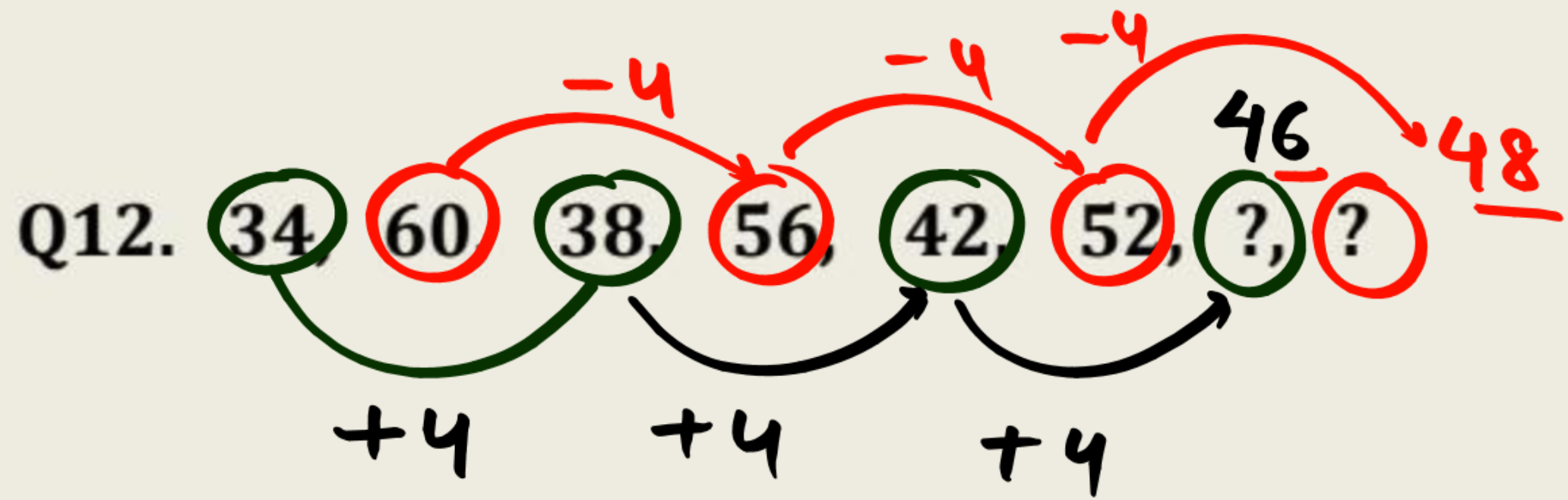
D. 109

$$\begin{array}{r} 84 \\ + 29 \\ \hline 113 \end{array}$$

Q11. 2 4 12 60 420 ?

2 4 12 60 420 4620
x2 x3 x5 x7 x11

420
420
4620



Q13. 59, 29, 54, 35, 44, 47, ?, ? 65

The diagram illustrates the sequence: 59, 29, 54, 35, 44, 47, ?, ?. The differences between terms are shown with arrows: 59 to 29 is -5; 29 to 54 is +6; 54 to 35 is -10; 35 to 44 is +12; 44 to 47 is -15; and 47 to the final term is +18. A red '29' is written above the second question mark, and the number 65 is underlined at the end of the sequence.

A. 29, 65

B. 30, 65

C. 29, 66

D. 32, 67

Q14. 9, 25, 49, 81, ? **121**
 3^2 5^2 7^2 9^2 11^2
=

Q15. 27, 64, 125, 216, ? **343**
 3^3 4^3 5^3 6^3 7^3

(*) Q16. 17, 18, 26, 53, 117, ? **242**

1 8 27 64 125
 1^3 2^3 3^3 4^3 5^3

Q17. 35, 60, 109, 190, ? **311**

+25 +49 +81 +121
 5^2 7^2 9^2 11^2

Q18. 1, 2, 6, 33, 49, 174, ?

$+1$ $+4$ $+27$ $+16$ $+125$ $+36$
 1^3 2^2 3^3 4^2 5^3 6^2

$$\begin{array}{r} 174 \\ + 36 \\ \hline 210 \end{array}$$

Q19. 50, 82, 122, 170, ?

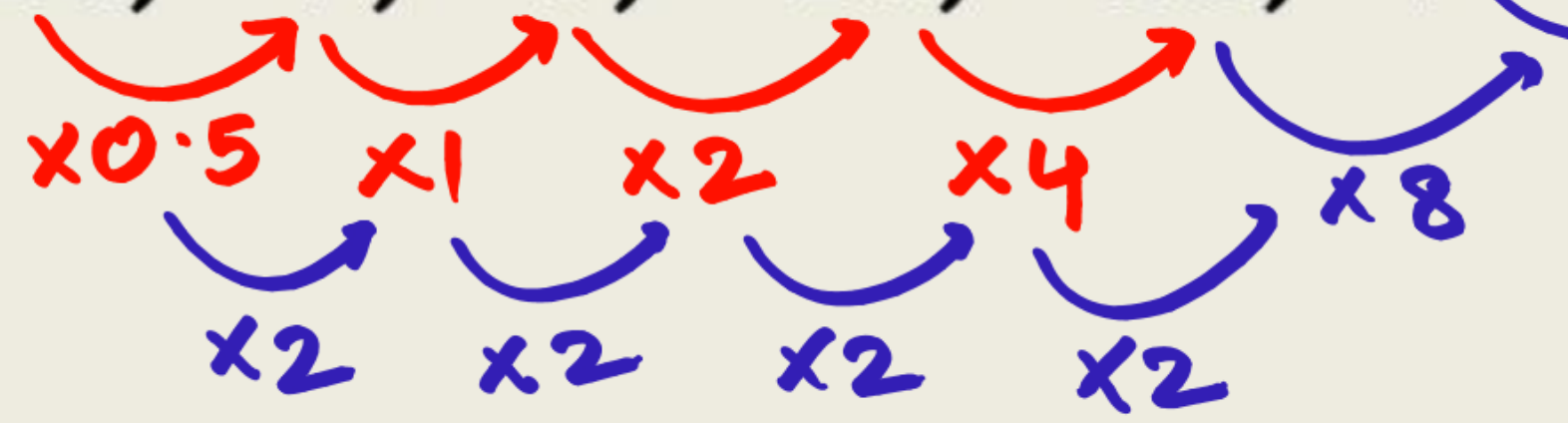
$7^2 + 1$ $9^2 + 1$ $11^2 + 1$ $13^2 + 1$ $15^2 + 1$

226

Q20. 999, 728, 511, 342, 215, ? **124**

$10^3 - 1$ $9^3 - 1$ $8^3 - 1$ $7^3 - 1$ $6^3 - 1$ $5^3 - 1$

Q21. 14, 7, 7, 14, 56, ? **448**



$0.5 \rightarrow \frac{1}{2}$

$$\begin{array}{r} 4 \\ 56 \times 8 \\ \hline 448 \end{array}$$

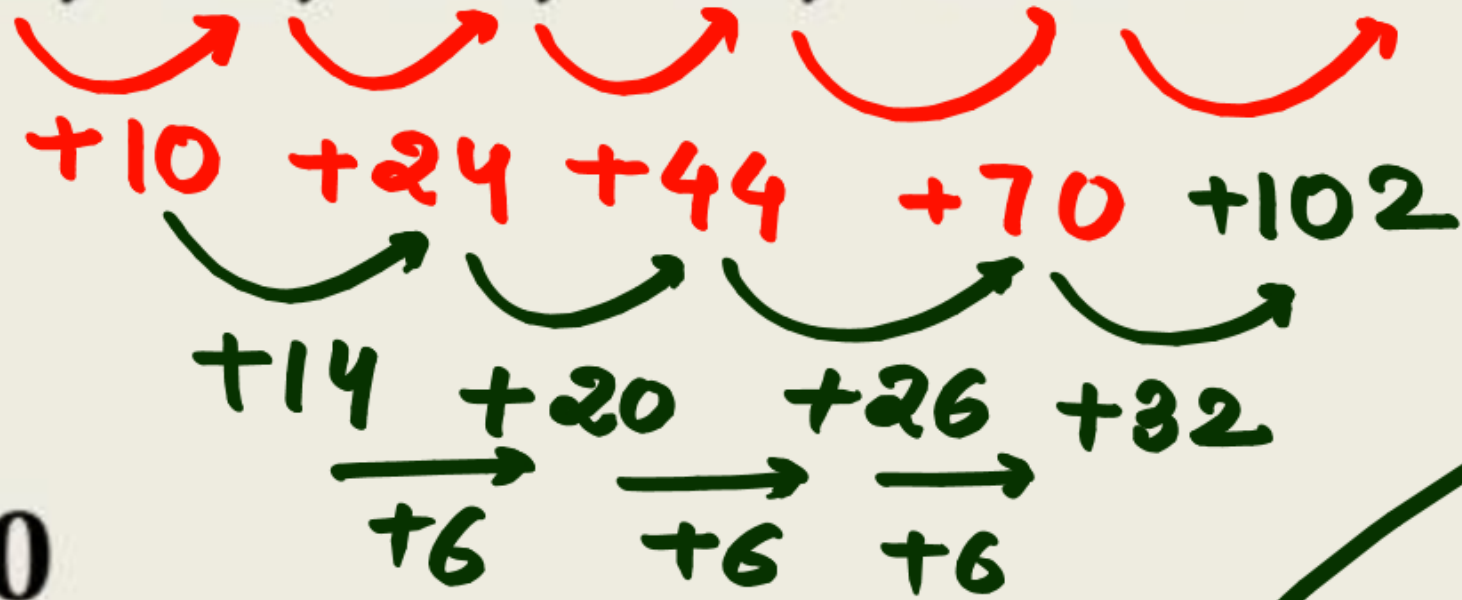
Q22. 12, 24, 60, 180, 630, ? 2520

$\times 2$ $\times 2.5$ $\times 3$ $\times 3.5$ $\times 4$

$$\begin{array}{r} 24 \times 2 = 48 \\ 24 \times 0.5 = 12 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 630 \times 4 \\ \hline 2520 \end{array}$$

Q24. 2, 12, 36, 80, 150 ?



A. 240

B. 256

C. 252 ✓

D. 290

Handwritten calculation showing 150 plus 102 equals 252.

$$\begin{array}{r} 150 \\ + 102 \\ \hline 252 \end{array}$$

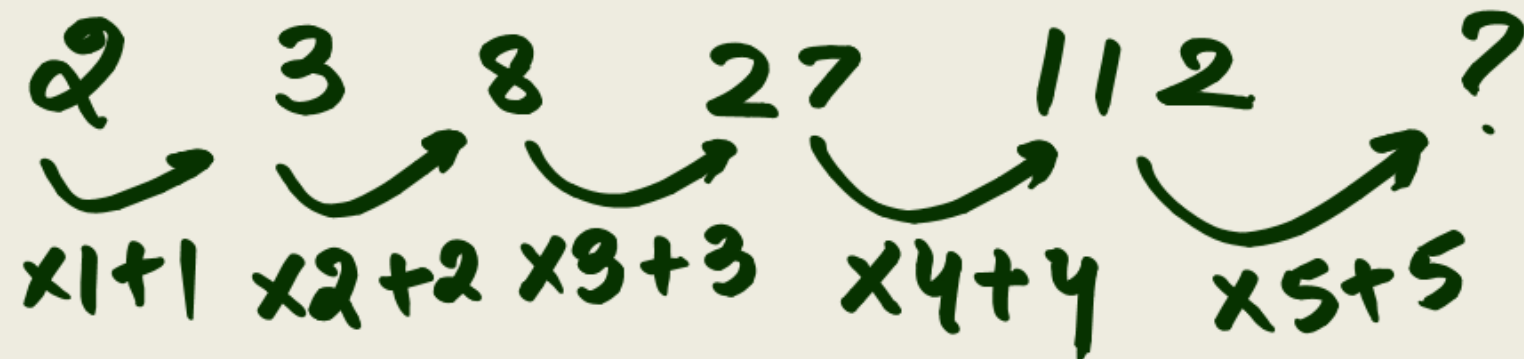
Q27. 2, 3, 8, 27, 112, ?

(A) 156

(B) 224

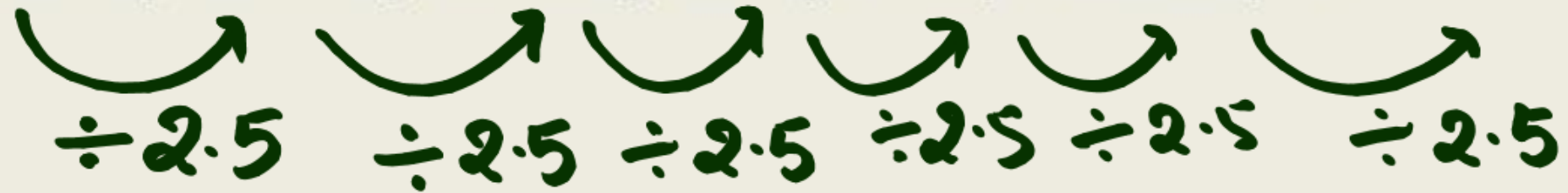
(C) 375

(D) 565



$$560 + 5 \rightarrow \textcircled{565}$$

Q31. 1250, 500, 200, 80, 32, 12.8, ?



(a) 5.16

(b) 5.12 ✓

(c) 4.3

(d) 6.02

$$\begin{array}{r} 5.12 \\ \hline 12.8 \\ \hline 2.5 \end{array}$$

HOME WORK

HOME WORK

A series is given with one term missing. Select the correct alternatives from the given ones that will complete the series.

एक श्रृंखला दी गई है जिसमें एक पद लुप्त है। दिए गए विकल्पों में से वह सही विकल्प चुनिए जो श्रृंखला को पूरा करे।

Q1. 9 13 22 36 55 ?

A. 79

B. 74

C. 80

D. 78

PRACTICE QUESTIONS :

Q2. 7, 11, 11, 9, 15, 7, 19, 5, ?, 3

(a) 25

(b) 23

(c) 22

(d) 9

PRACTICE QUESTIONS :

Q3. 16, 36, 64, 100, ?

(A) 121

(B) 169

(C) 144

(D) 196

PRACTICE QUESTIONS :

Q4. 2150, 2165, 2186, 2214, 2250, ?

(A) 2290

(B) 2295

(C) 2275

(D) 2298

PRACTICE QUESTIONS :

Q5. 3, 10, 22, 39, 61, ?

(A) 89

(B) 78

(C) 88

(D) 69

PRACTICE QUESTIONS :

Q6. 8, 24, 12, ? , 18, 54

(A) 28

(B) 36

(C) 46

(D) 38

PRACTICE QUESTIONS :

Q7. 8, 27, 64, ? , 216, 343

(A) 120

(B) 325

(C) 125

(D) 25

Answer keys :

1. A

2. B

3. C

4. B

5. C

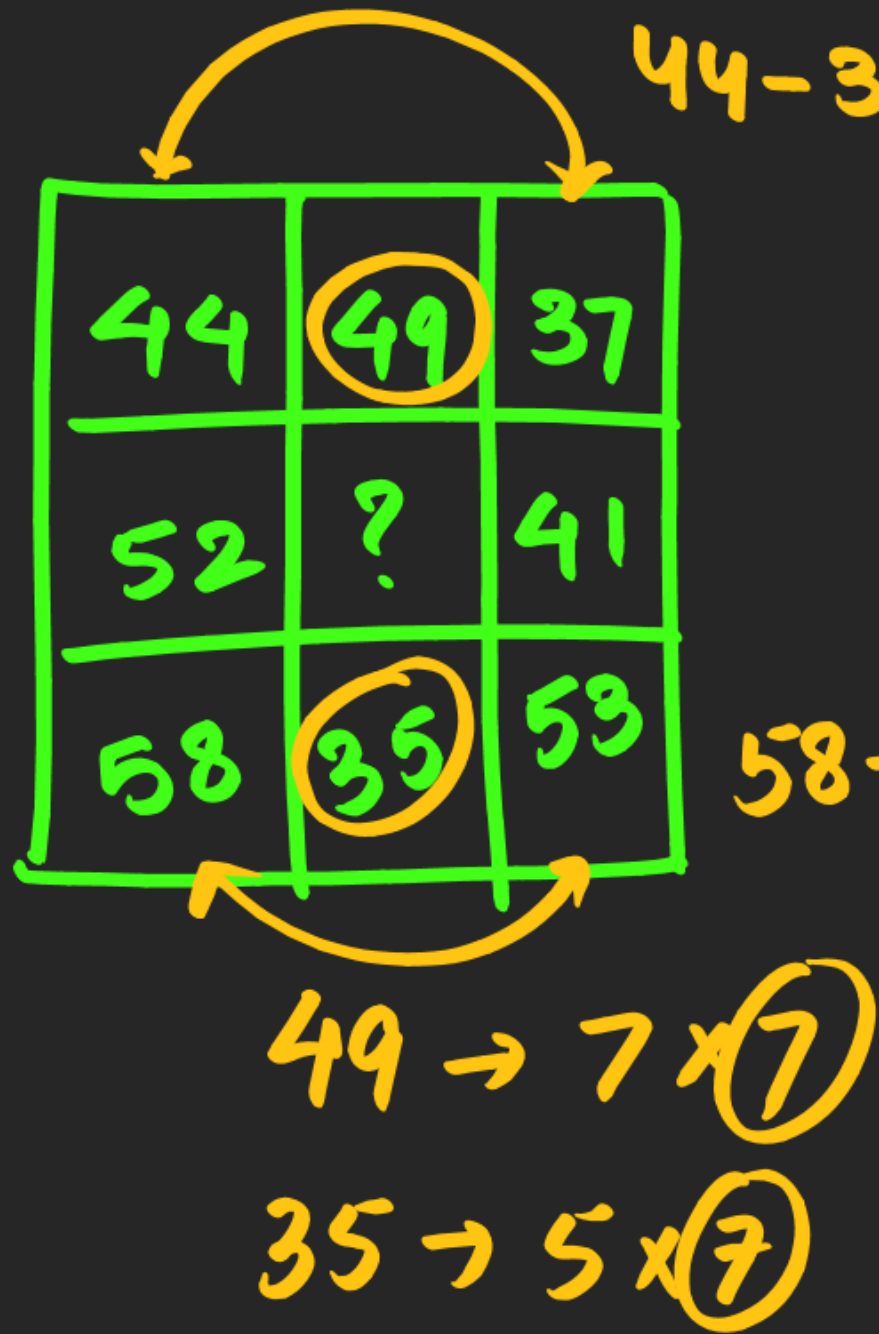
6. C

7. C

The image features three wooden puzzle pieces on a dark surface against a light grey background. The pieces are arranged in a row, with the middle piece missing, leaving a gap. The wood has a natural grain and texture. A teal-colored banner with a white border is overlaid across the middle of the image, containing the text 'MISSING NUMBER'.

MISSING NUMBER

INTRODUCTION



$$44 - 37 = 7$$
$$\begin{array}{r} \times 7 \\ \hline 49 \end{array}$$

a. 66

b. 56

c. 77

d. More than 1

e. None of these

$$58 - 53 = 5$$
$$\begin{array}{r} \times 7 \\ \hline \end{array}$$

$$52 - 41 = 11$$

$$\begin{array}{r} \times 7 \\ \hline 77 \end{array}$$

QUESTION 1

Find the missing number from the given responses in each of the following questions.

निम्नलिखित प्रत्येक प्रश्न में दिए गए उत्तरों में से लुप्त संख्या ज्ञात कीजिए।

8	77	9
7	47	6
5	?	7

→ $8 \times 9 \rightarrow 72 + 5 \rightarrow 77$
→ $7 \times 6 \rightarrow 42 + 5 \rightarrow 47$
→ $5 \times 7 \rightarrow 35 + 5 = 40$

QUESTION 2

Find the missing number from the given responses in each of the following questions.

निम्नलिखित प्रत्येक प्रश्न में दिए गए उत्तरों में से लुप्त संख्या ज्ञात कीजिए।

7	12	91
5	13	70
8	15	?

$$7 \times 12 \rightarrow 84 + 7 \rightarrow 91$$
$$5 \times 13 \rightarrow 65 + 5 \rightarrow 70$$

$$12 + 1 \rightarrow 13 \quad / \quad 13 \times 7 \rightarrow 91$$

$$13 + 1 \rightarrow 14 \quad / \quad 14 \times 5 \rightarrow 70$$

$$15 + 1 \rightarrow 16 \quad / \quad 16 \times 8 \rightarrow 128$$

$$8 \times 15 \rightarrow 120 + 8 \rightarrow 128$$

Q10. OUTLINES - LOTUEINS

YOGENDRA -

YOGE | NDRA

EGOY ADNR

OUTLINES

LOTUEINS

ଝିଲେ ସେ ବାଝି

ଝିଲେ ସେ ବାଝି

Q11. In a certain code, DESIGNER is written as DEISEGNR. How is PUBLICLY written in that code?

एक निश्चित कूट भाषा में DESIGNER को DEISEGNR लिखा जाता है।
उसी कोड में PUBLICLY को कैसे लिखा जाता है?

- A. YUBPLICL
- B. BPLULYCI
- C. BLPUCILY
- D. UPBLYLIC

DESIGNER
DEISEGNR

दो से दो

Q2. In a certain code, SLIDER is written as DEILRS. How is AIRPLANE written in that code?

एक निश्चित कूट भाषा में SLIDER को DEILRS लिखा जाता है। उसी कोड में AIRPLANE को कैसे लिखा जाता है?

AAE

SLIDER
DEILRS

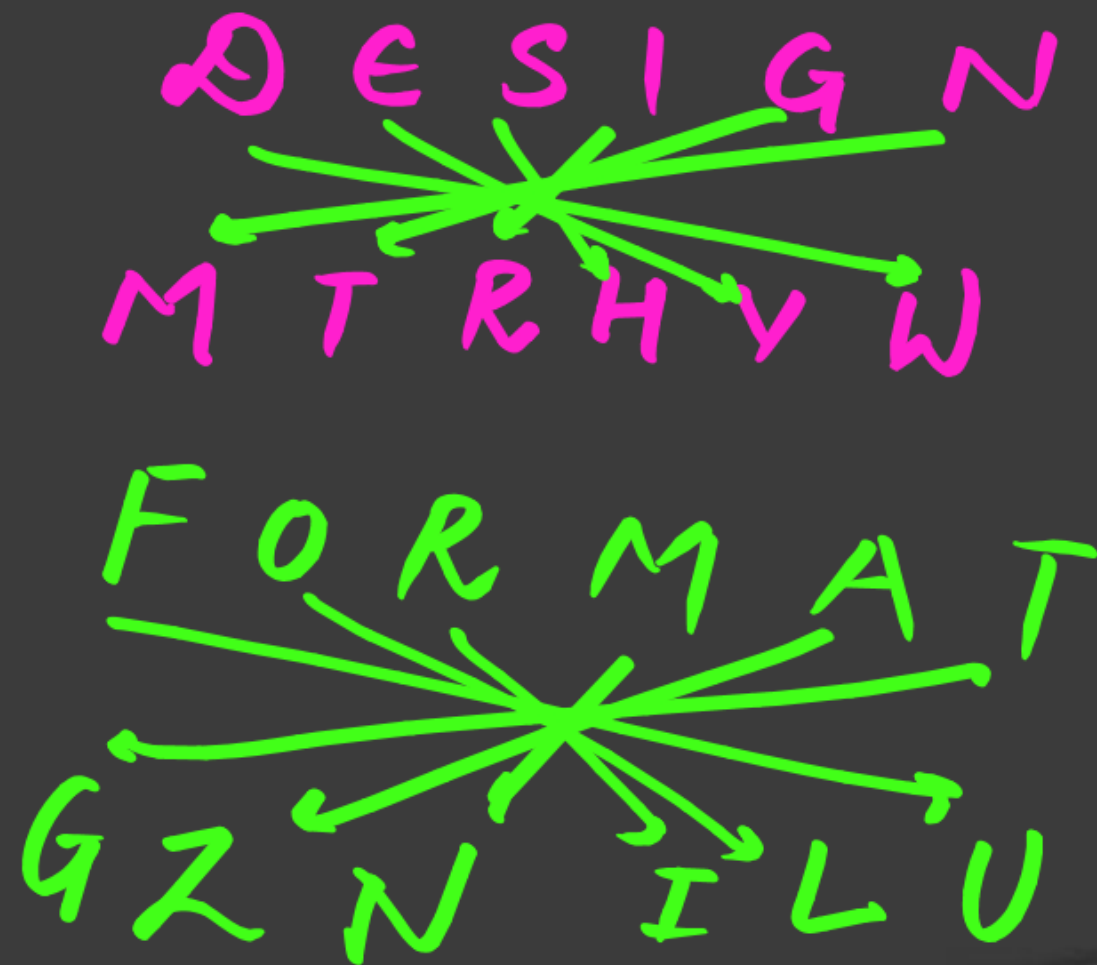
→
होले से बाड़े

- A. AAEILNPR
- B. AEAINLRP
- C. AAIELNRP
- D. AEIALNPR

Q3. In a certain code, DESIGN is written as MTRHVW. How is FORMAT written in that code?

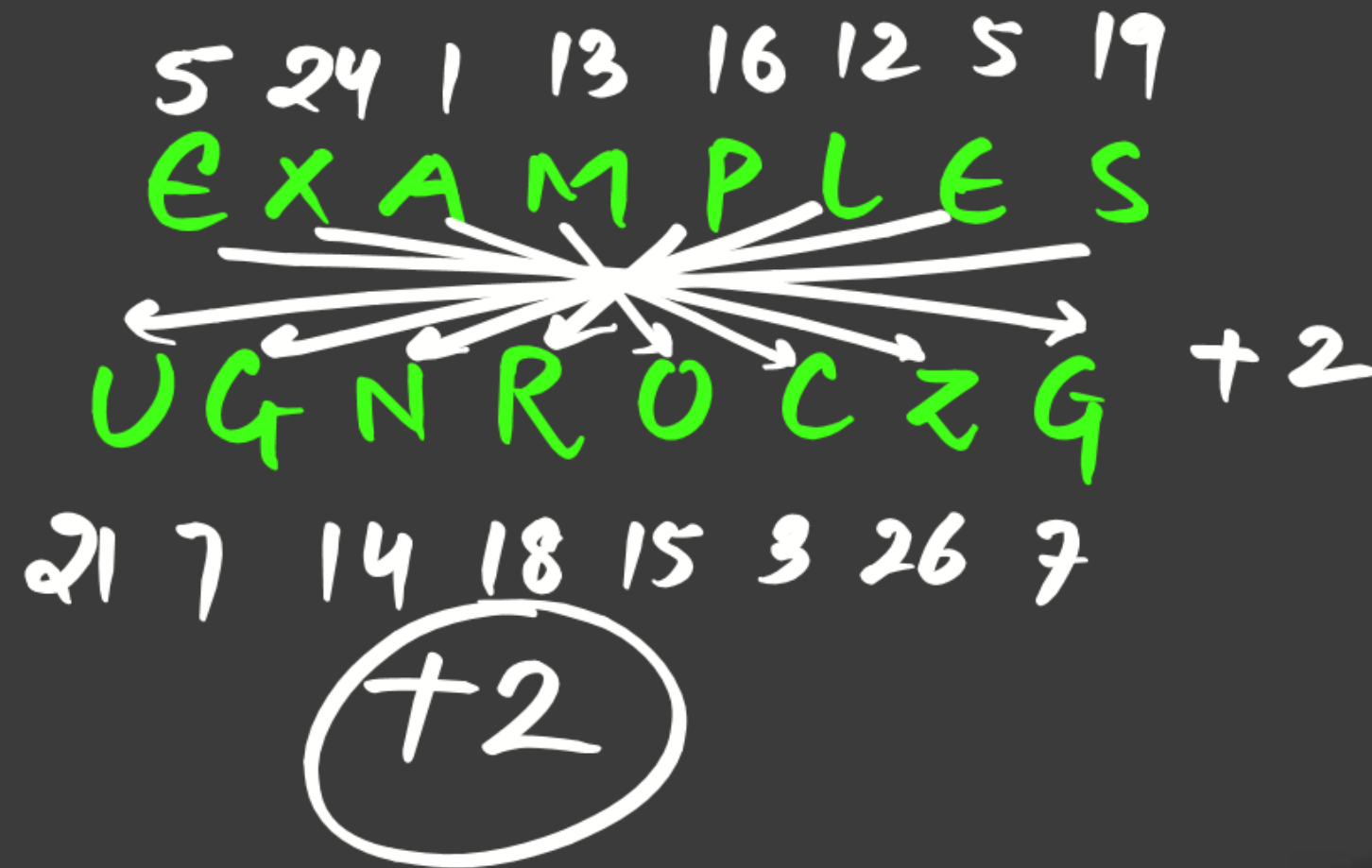
एक निश्चित कूट भाषा में BASIC को XRHZY लिखा जाता है। उसी कोड में LEADS को कैसे लिखा जाता है?

- A. GLINZU
- B. GZNILU
- C. ULINZG
- D. None of these



Q4. In a certain code, EXAMPLES is written as UGNROCZG. How is BUOYANCY written in that code?

एक निश्चित कूट भाषा में EXAMPLES को UGNROCZG लिखा जाता है। उसी कोड में BUOYANCY को कैसे लिखा जाता है?



- A. AEPCAQWD
- B. AEPCQAWD
- C. DWQACPEA
- D. None of these