





Sol.

(d)

C	E	H	L	→	3,	5,	8,	12
K	M	P	T	→	11,	13,	16,	20
O	Q	T	X	→	15,	17,	20,	24,
N	P	S	V	→	14,	16,	19,	22,

So NPSV is odd one.

11. Find the missing figures; 4, 16, 36, 64, 100, ?

- (a) 144                      (b) 121                      (c) 49                      (d) 120

Sol.

(a) Given series

4, 16, 36, 64, 100, \_\_\_\_\_

$2^2 = 4, 4^2 = 16, 6^2 = 36, 8^2 = 64, 10^2 = 100$

The series is of squares of even no.'s so after 100 it will be

$12^2 = 144$

12. If "MADRAS" is written as "NBESBT" then "DELHI" may be coded as:-

- (a) EMMJI                      (b) JIFEM                      (c) EFMIJ                      (d) CDKGH

Sol. (c)

M	A	D	R	A	S		D	E	L	H	I
+1	↓	↓	↓	↓	↓	⇒	+1	↓	↓	↓	↓
N	B	E	S	B	T		E	F	M	I	J

13. Find the odd man out 5, 10, 17, 27, 37, 50, 65?

- (a) 5                      (b) 17                      (c) 27                      (d) 10

## CA Foundation

Sol.

$$\begin{aligned} \text{(c)} \quad & (2 \times 2) + 1 = 5 \\ & (3 \times 3) + 1 = 10 \\ & (4 \times 4) + 1 = 17 \\ & \text{But } (5 \times 5) + 1 \neq 27 \\ & (6 \times 6) + 1 = 37 \\ & \text{So } 27 \text{ is odd man out.} \end{aligned}$$

14. Complete the series 4, 16 \_\_\_\_\_ 256, 1024  
 (a) 32 (b) 48 (c) 64 (d) 46

Sol. (c)  $4^1 = 4$ 

$$4^2 = 4 \times 4 = 16$$

$$* 4^3 = 4 \times 4 \times 4 = 64*$$

$$4^4 = 4 \times 4 \times 4 \times 4 = 256$$

$$4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1024$$

So, the third term of the series is 64.

15. If "SYSTEM" is coded as 131625; then 'TERMS' will be coded as:-

(a) 62251 (b) 62451 (c) 64251 (d) 62415

Sol. (b)

S	Y	S	T	E	M
↓	↓	↓	↓	↓	↓
1	3	1	6	2	5

In word "TERM" "R" is different. Code of R should be different out of 1, 2, 3, 5, 6. Hence code of R may be 0; 4, 7, 8, 9.

That is code for "TERMS" may be 62051; 62451; 62751; 62851; 62951. Clearly (b) 62451 is present in the option.

So; (b) is correct.


HOME WORK

1. In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?  
 (a) 318826 (b) 318286 (c) 618826 (d) 338816

Sol. Same as Classwork 1 : Q.24

2. In a certain code '256' means 'you are good', '637' means 'we are bad' and '358' means 'good and bad'. Which of the following represents 'and' in that code?  
 (a) 2 (b) 5 (c) 8 (d) 3

Sol.

Sol: 

2 5 6 means you are good  
 6 3 7 means we are bad  
 3 5 8 means good and bad

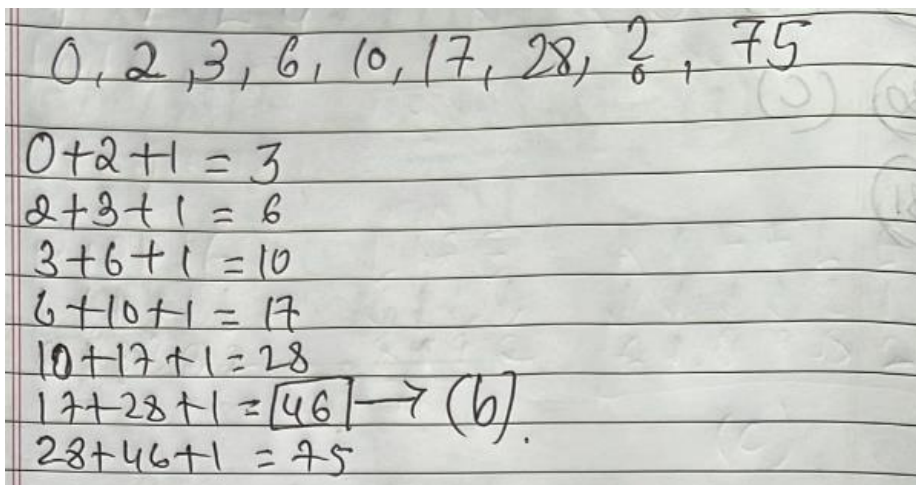
6  $\Rightarrow$  are  
 3  $\Rightarrow$  bad  
 5  $\Rightarrow$  good  
 and  $\Rightarrow$  8

3. Find the odd man out,  
 1, 5, 14, 30, 51, 55, 91  
 (a) 5 (b) 55 (c) 51 (d) 91

Sol. Same as Classwork 1 : Q.22

4. Find the missing value in the series 0, 2, 3, 6, 10, 17, 28, ?, 75.  
 (a) 58 (b) 46 (c) 48 (d) 54

Sol



0, 2, 3, 6, 10, 17, 28, ?, 75

$0 + 2 + 1 = 3$   
 $2 + 3 + 1 = 6$   
 $3 + 6 + 1 = 10$   
 $6 + 10 + 1 = 17$   
 $10 + 17 + 1 = 28$   
 $17 + 28 + 1 = 46 \rightarrow (b)$   
 $28 + 46 + 1 = 75$

## CA Foundation

5.  $\frac{3}{8}, \frac{8}{19}, \frac{18}{41}, ?, \frac{78}{173}$

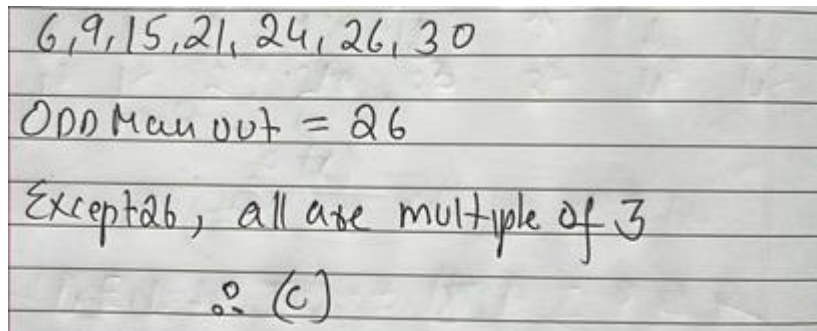
- (a)  $\frac{37}{84}$                       (b)  $\frac{40}{87}$                       (c)  $\frac{39}{86}$                       (d)  $\frac{38}{85}$

Sol. Same as Classwork 1 : Q.33

6. Find the odd man out of the following 6, 9, 15, 21, 24, 26, 30.

- (a) 30                      (b) 24                      (c) 26                      (d) 9

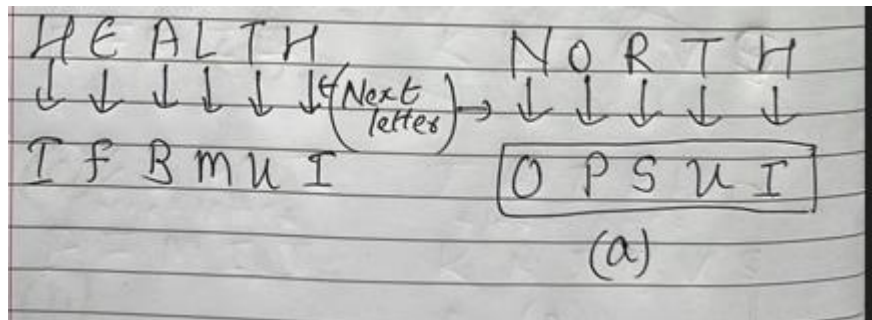
Sol.



7. If HEALTH is written as IFBMUI, then how will NORTH be written in that code?

- (a) OPSUI                      (b) GSQNM                      (c) FRPML                      (d) IUPSO

Sol.

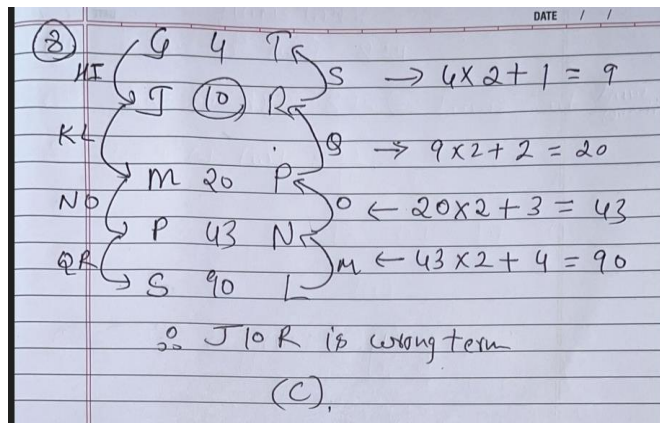


8. Find the wrong term in:

G4T, J10R, M20P, P43N, S90L

- (a) M20P                      (b) P43N                      (c) J10R                      (d) G4T

Sol.

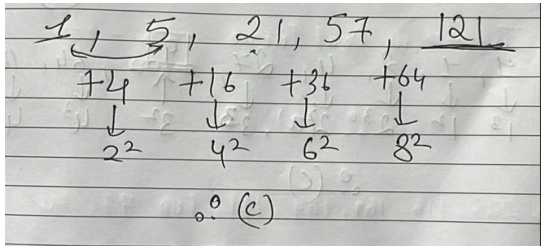


**CA Foundation**

9. Find the next term 1, 5, 21, 57, \_\_\_\_\_

- (a) 105 (b) 138 (c) 121 (d) 101

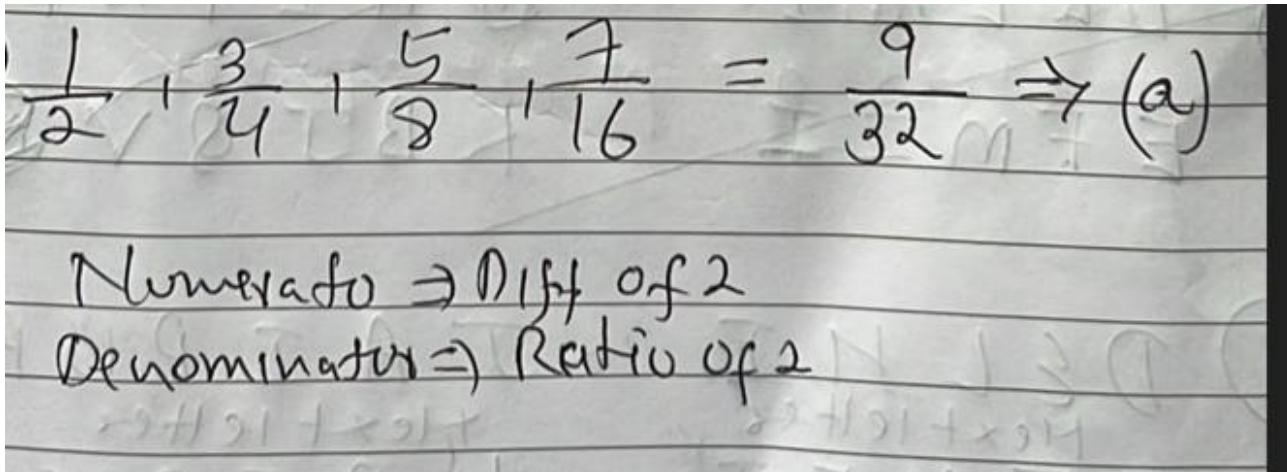
Sol.



10.  $\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16} = ?$

- (a) 9/32 (b) 10/17 (c) 11/34 (d) 12/35

Sol.



11. Find the missing term

P 3 C; R 5 F; T 8 I; V 12 L; \_\_\_\_\_?

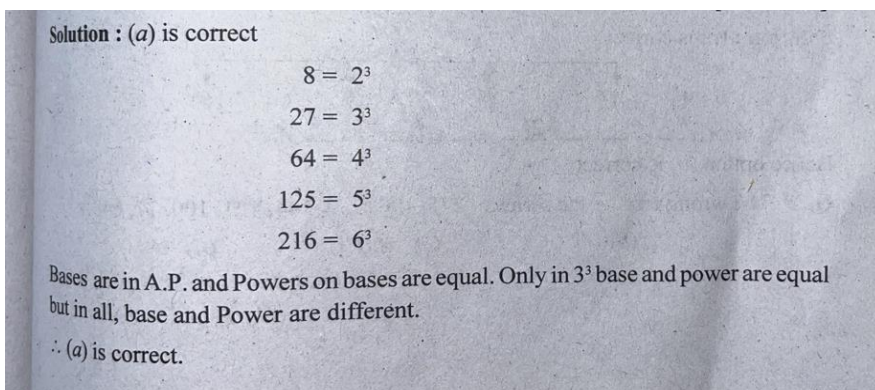
- (a) Y17O (b) X17M (c) X17O (d) X16O

Sol. Same as Classwork 1: Q.11

12. Find out the odd man out in the Sequence 8, 27, 64, 125, 216

- (a) 27 (b) 64 (c) 125 (d) 216

Sol.

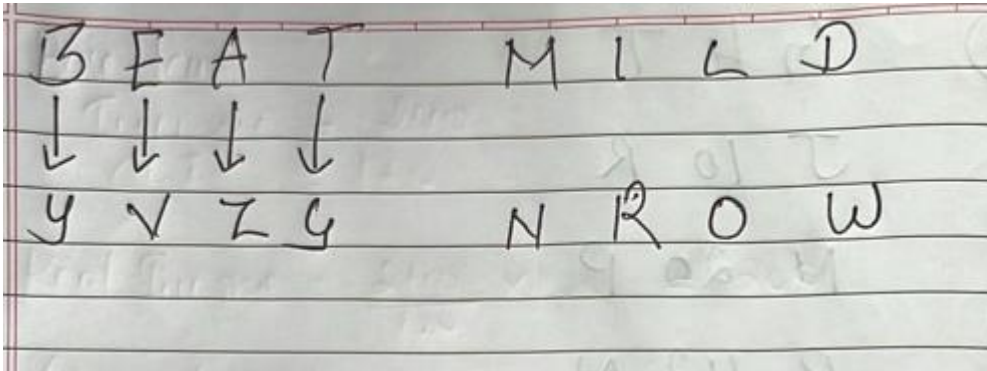


**CA Foundation**

13. In a certain Code Language BEAT is written as YVZG, then what will be Code for MILD?

- (a) ONRW                      (b) NOWR                      (c) ONWR                      (d) NROW

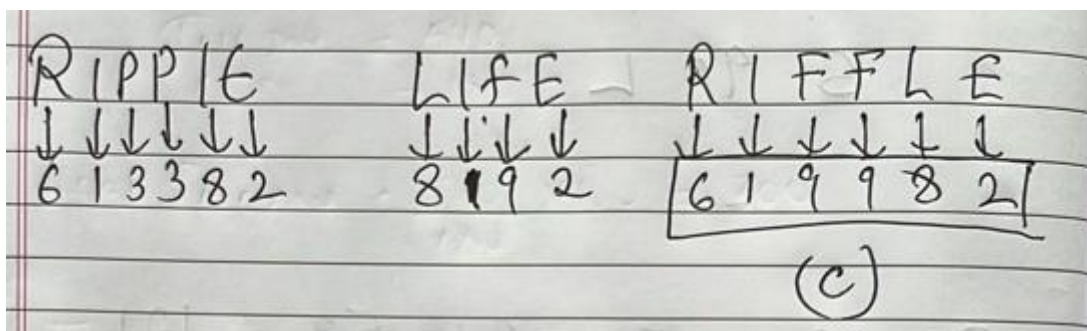
Sol.



14. In a certain code RIPPLE is written as 613382, and LIFE is written as 8192. How will RIFFLE be written in that code?

- (a) 618892                      (b) 689912                      (c) 619982                      (d) 629981

Sol.

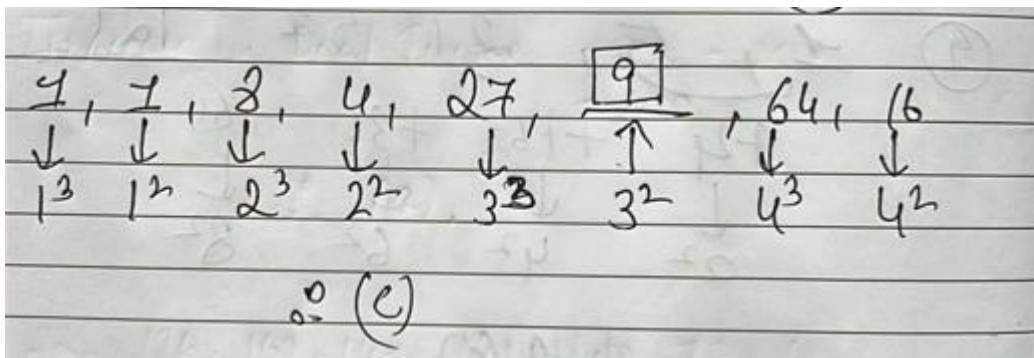


15. Choose the missing term in the series,

1, 1, 8, 4, 27, \_\_\_\_\_, 64, 16

- (a) 27                      (b) 11                      (c) 9                      (d) 125

Sol.

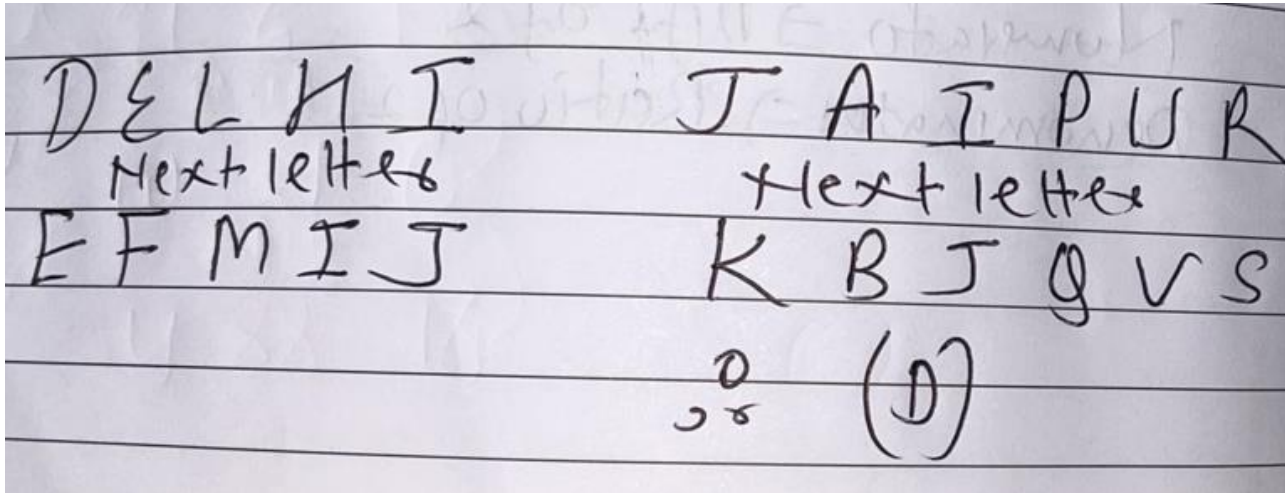


16. If DELHI is coded as EFMII then JAIPUR is coded as \_\_\_\_\_

- (a) JQVSBK                      (b) QVSKBJ                      (c) BJQVSK                      (d) KBJQVS

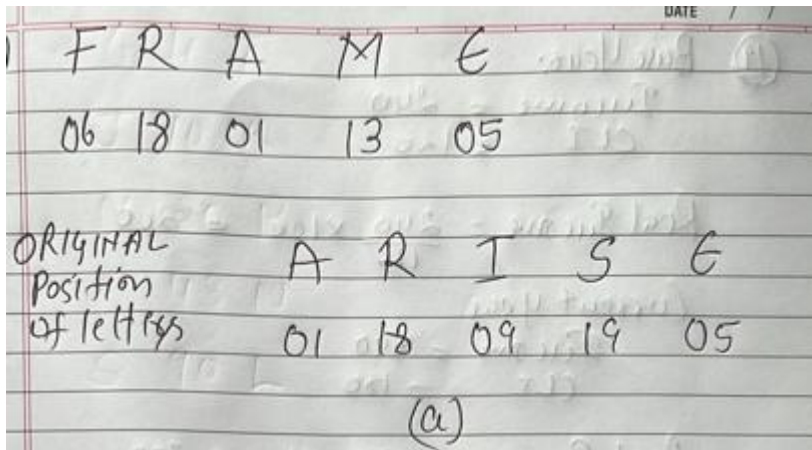
Sol.





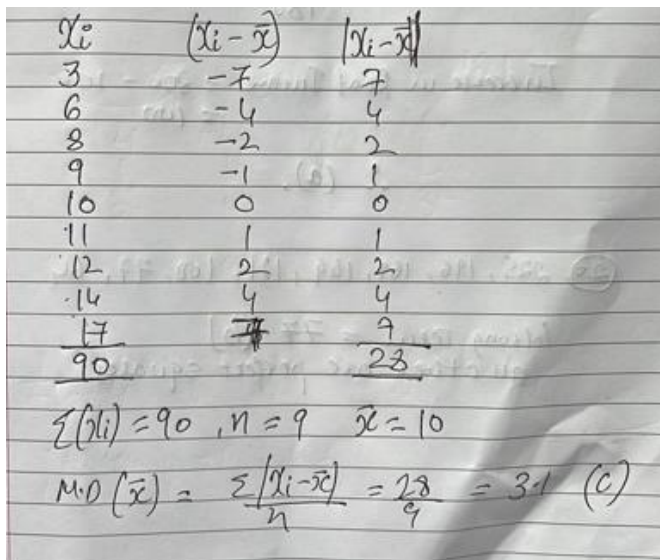
17. If FRAME is coded as 0618011305 then ARISE is coded as \_\_\_\_\_  
 (a) 0118091905    (b) 0119091805    (c) 0118190905    (d) 0118091805

Sol.



18. The mean deviation of the numbers 3, 10, 6, 11, 14, 17, 9, 8, 12 about the mean is (correct to one decimal place).  
 (a) 8.7                      (b) 4.2                      (c) 3.1                      (d) 9.8

Sol.



## CA Foundation

19. The consumer price index goes up from 120 to 180 when salary goes up from 240 to 540, what is the increase in real terms?

- (a) 80                      (b) 150                      (c) 360                      (d) 240

Sol.

Base Year:  
 Income = 240  
 C.I. = 120  
 $\text{Real Income} = \frac{240 \times 100}{120} = 200$

Current year:  
 Income = 540  
 C.I. = 180  
 $\text{Real Income} = \frac{540 \times 100}{180} = 300$

Increase in Real Income =  $300 - 200 = 100$   
 $\therefore$  (a).

20. The wrong term in the series 225, 196, 169, 144, 121, 100, 77, 64, is,

- (a) 121                      (b) 77                      (c) 100                      (d) 169

Sol.

225, 196, 169, 144, 121, 100, 77, 64  
 Wrong term = 77 (b)  
 all others are perfect squares

21. If CLOCK is coded as 34235 and TIME as 8679, then MOTEL is coded as

- (a) 27894                      (b) 72964                      (c) 72894                      (d) 77684

Sol.

Solution : (c) is correct

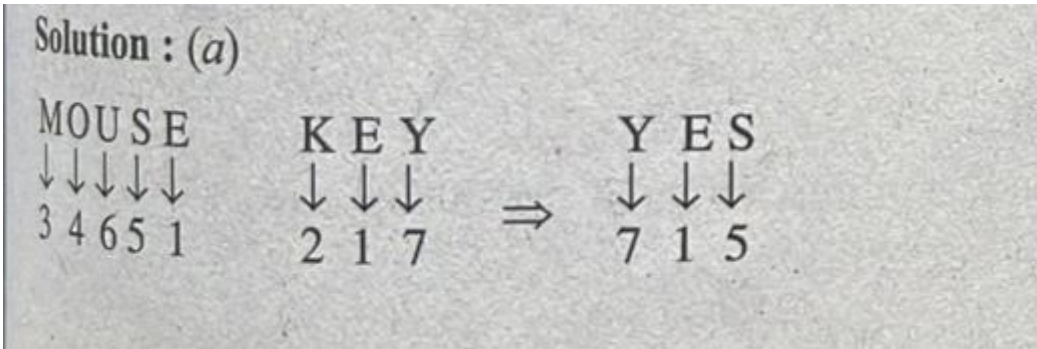
C	L	O	C	K	T	I	M	E		M	O	T	E	L
↓	↓	↓	↓	↓	↓	↓	↓	↓	⇒	↓	↓	↓	↓	↓
3	4	2	3	5	8	6	7	9		7	2	8	9	4

22. If MOUSE is coded as 34651 and KEY is coded as 217, then how will YES be coded?

- (a) 715                      (b) 517                      (c) 175                      (d) 571

Sol.

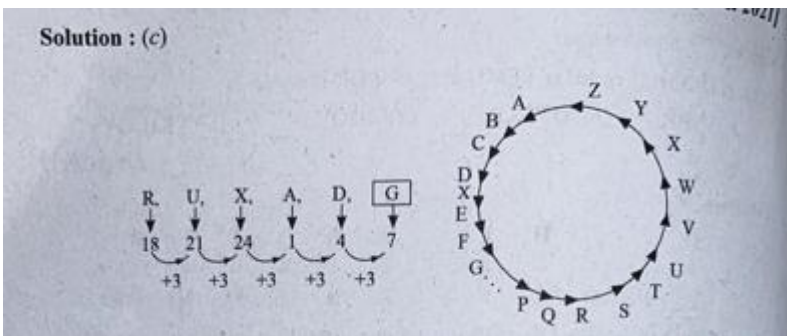
## CA Foundation



23. What comes at the last place in R, U, X, A, D, \_\_\_\_\_?

- (a) E                      (b) F                      (c) G                      (d) H

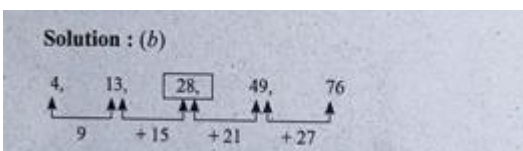
Sol.



24. The missing term of the series 4, 13, \_\_\_\_\_, 49, 76 is

- (a) 26                      (b) 28                      (c) 30                      (d) 32

Sol.



25. Find the odd one from the following:

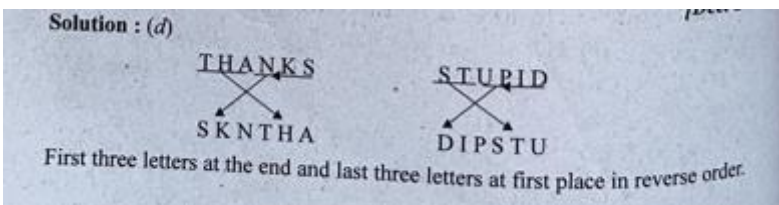
- (a) Zebra                      (b) Giraffe                      (c) Horse                      (d) Tiger

Sol. (d) Tiger is the meat eating animal , But rest are grass eating animal.

26. If in a certain code "THANKS" is written as "SKNTHA", then how is "STUPID" written?

- (a) DIPUTS                      (b) DISPUT                      (c) DIPUST                      (d) DIPSTU

Sol.

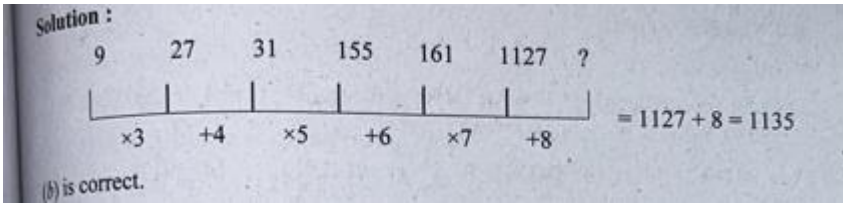


27. 9,27,31,155,161,1127, ?- Find missing number?

**CA Foundation**

- (a) 1316                      (b) 1135                      (c) 1288                      (d) 2254

Sol.

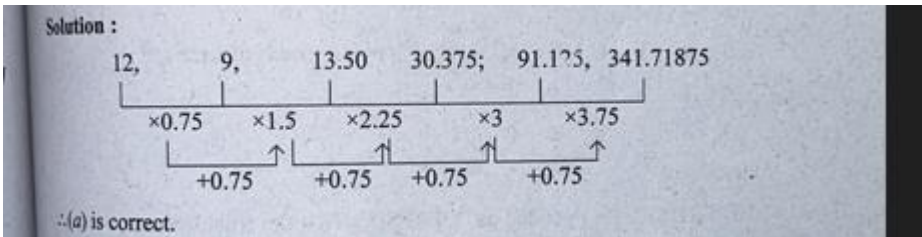


28. What is the missing number in the sequence given below?

12, 9, 13.50, 30.375, ?, 341.71875

- (a) 91.125                      (b) 89.145                      (c) 90.475                      (d) 92.485

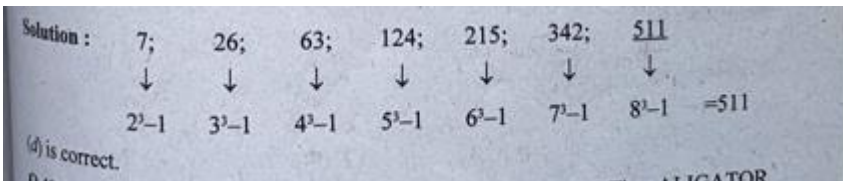
Sol.



29. 7, 26, 63, 124, 215, 342 ?- Find the missing number.

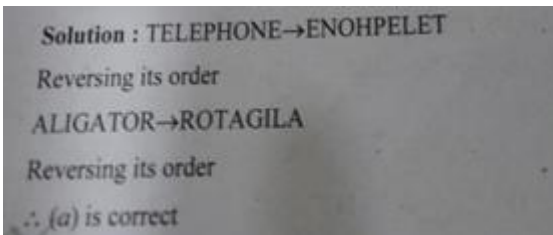
- (a) 391                      (b) 421                      (c) 481                      (d) 511

Sol.



30. In a certain code 'TELEPHONE' is written as ENOHPELET. Then ALIGATOR is written as

- (a) ROTAGILA                      (b) ROTAGAIL                      (c) ROTAGILE                      (d) TOTAGILA



31. In a coded language, if 'EARTH' is written as 34215 and 'VENUS' is written as 73089. What is the code for "SATURN"?

- (a) 941012                      (b) 941820                      (c) 914281                      (d) 912418

Sol.

## CA Foundation

**Solution :**

E	A	R	T	H	V	E	N	U	S
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
3	4	2	1	5	7	3	0	8	9

S A T U R N      (Copying Codes of letters)

↓	↓	↓	↓	↓	↓
9	4	1	8	2	0

∴ (b) is correct

32. If 'FROZEN' is decoded as 'OFAPSG'. Tick the right option that depicts 'MOLTEN' written in this way?

- (a) OFPOMN      (b) OFSMPN      (c) OFUMPN      (d) OFUNPN

Sol.

[Dec. 2021]

**Solution :**

FROZEN	→	Reversing Order	N	E	Z	O	R	F
			↓	↓	↓	↓	↓	↓
			O	F	A	P	S	G

∴ MOLTEN →

N	E	T	L	O	M
↓	↓	↓	↓	↓	↓
O	F	U	M	P	N

∴ (c) is correct.

33. Find the odd man out: 34, 105, 424, 2123, 12756

- (a) 12756      (b) 2123      (c) 424      (d) 34

Sol. Only 2123 is divisible by 11

(b) is correct

34. Find the missing in the following series?

3, 5, 5, 19, 7, 41, 9, 2, 11, 109

- (a) 71      (b) 61      (c) 69      (d) 79

Sol.

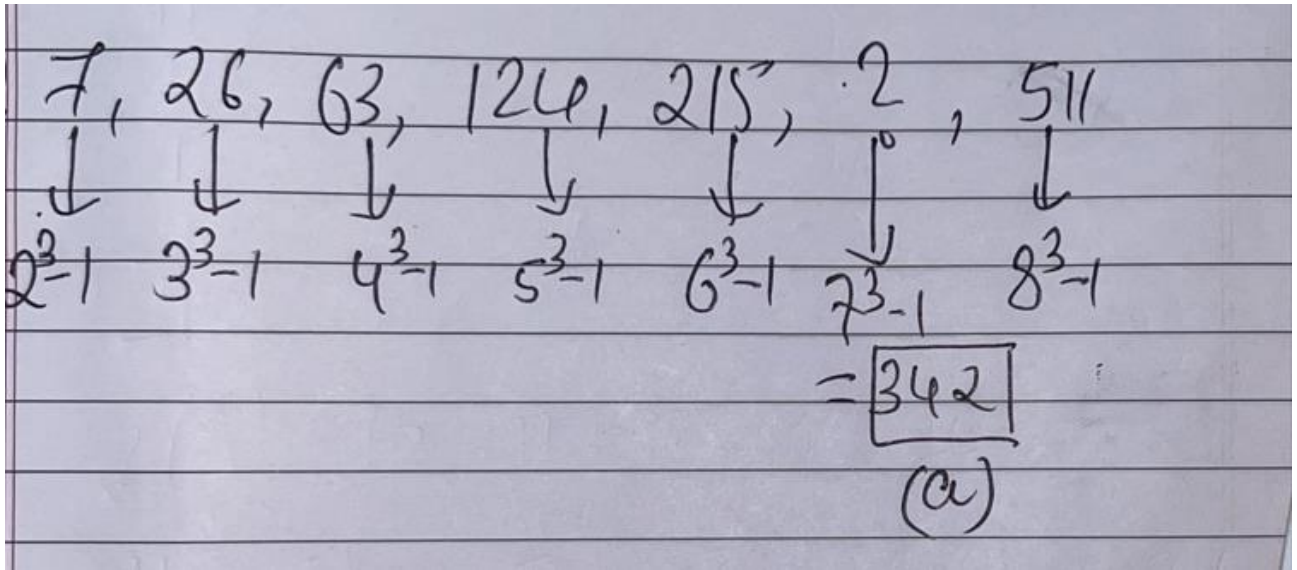
3	5	5	19	7	41	9	71	11	109
			↑		↑		↑		↑
			+14		+22		30		38
			+8		+8		+8		

i.e.  $5 + 14 = 19$   
 $19 + 22 = 41$   
 $41 + 30 = 71$  Ans.  
 $71 + 38 = 109$

35. In certain code language, if TOUR is written as 1234, CLEAR is written 56784 and SPARE is written as 90847, find the code for CARE?



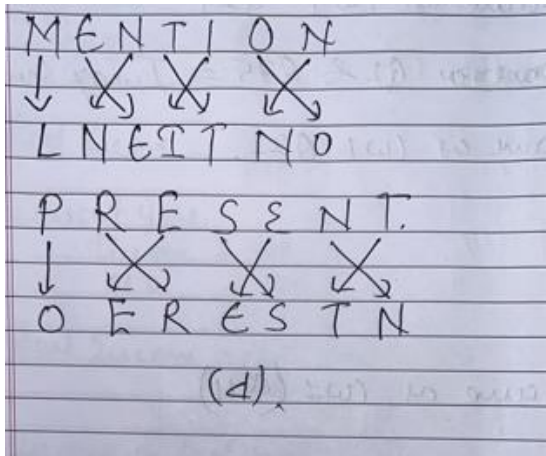
Sol.



39. In a certain code, MENTION is written as LNEITNO. How is PRESENT written in that code?

- (a) QFSFTUM      (b) ONESERP      (c) QRESTNO      (d) OERESTN

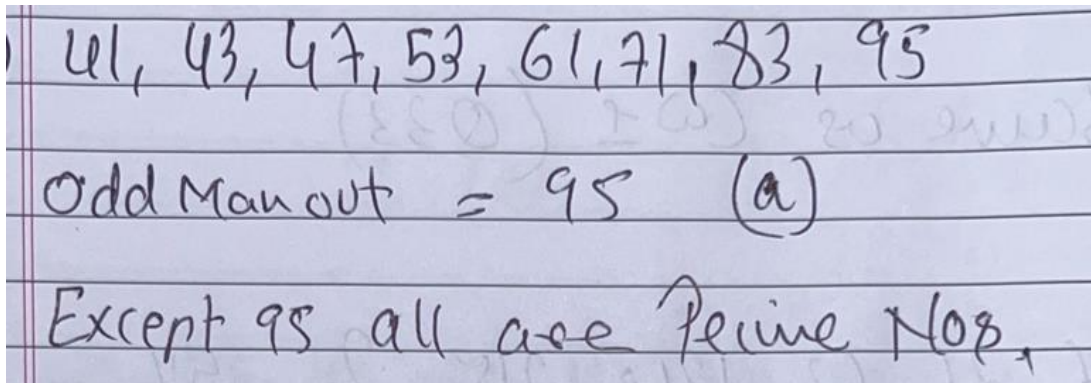
Sol.



40. Out of following 41, 43, 47, 53, 61, 71, 83, 95 the odd man out shall be:

- (a) 95      (b) 81      (c) 71      (d) 53

Sol.



41. Find the next number in the series: Q1F, S2E, U6D, W21C.....?

- (a) Y66B                      (b) Y44B                      (c) Y88B                      (d) Z66B

Sol.

Handwritten solution for question 41:

(41)

Q 1 F  
 $1 \times 1 + 1$

S 2 E  
 $2 \times 2 + 2$

U 6 D  
 $6 \times 3 + 3$

W 21 C  
 $21 \times 4 + 4$

Y 88 B  $\Rightarrow$  (C)

42. 10,100,200, 310 ?

- (a) 400                      (b) 410                      (c) 420                      (d) 430

Sol.

Sol :

10, 100, 200, 310, 430

90 100 110 120

43. 11, 13, 17, 19, 23, 25, 27

- (a) 33                      (b) 27                      (c) 29                      (d) 49

Sol.

11, 13, 17, 19, 23, 25, 29

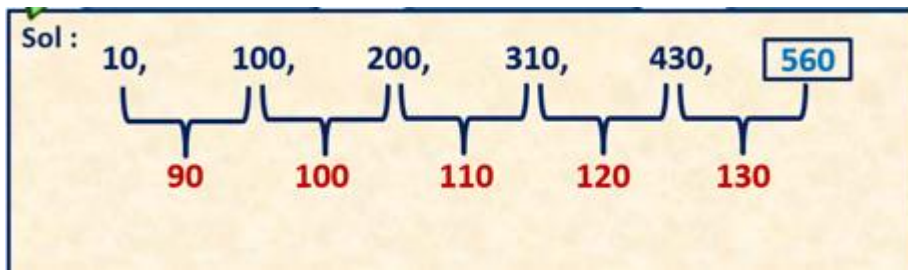
2 4 2 4 2 4





## CA Foundation

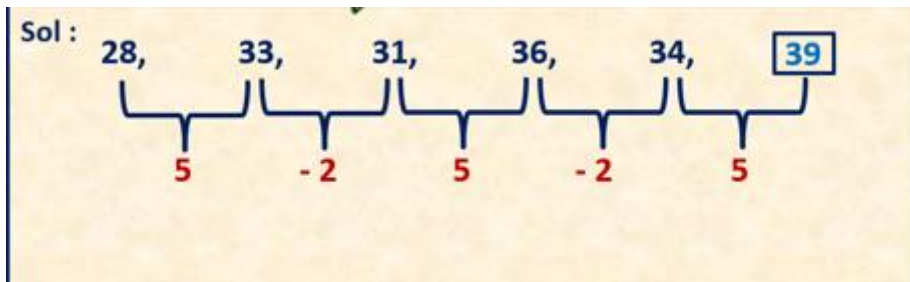
Sol.



49. 28, 33, 31, 36, 34 ?

- (a) 38                      (b) 39                      (c) 40                      (d) 42

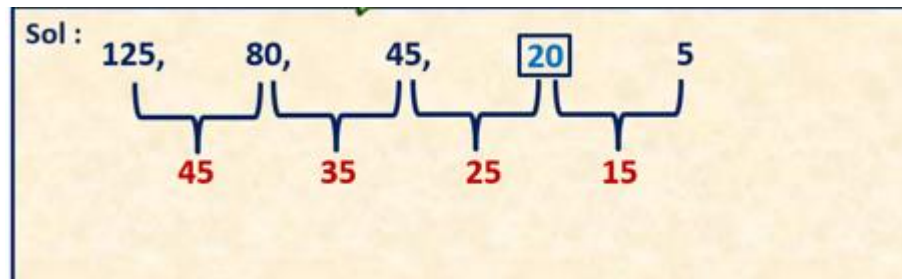
Sol.



50. 120, 80, 40, 45, ?, 5

- (a) 15                      (b) 20                      (c) 25                      (d) 30

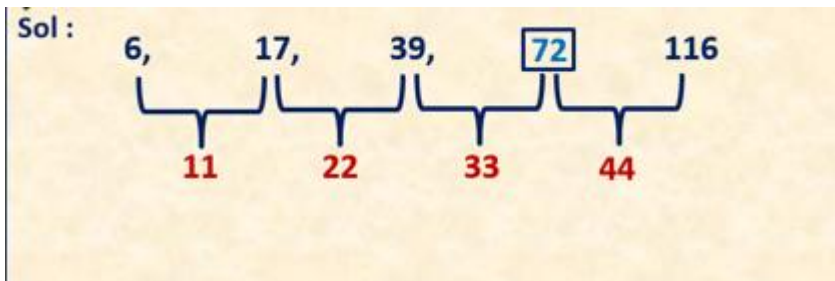
Sol.



51. 6, 17, 39, ?, 116

- (a) 72                      (b) 75                      (c) 85                      (d) 80

Sol.

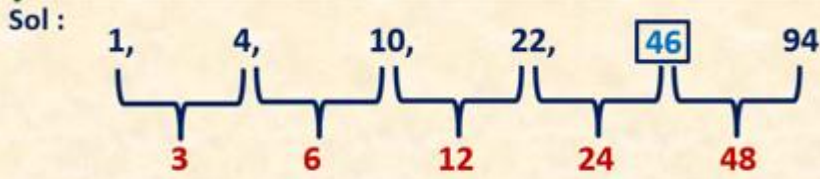


52. 1, 4, 10, 22, ?, 94

- (a) 46                      (b) 48                      (c) 49                      (d) 47

Sol.

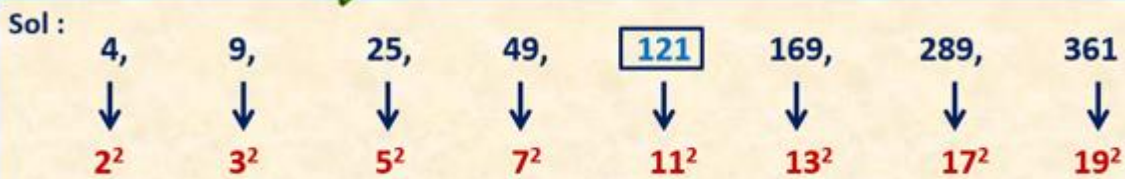
## CA Foundation



53. 4, 9, 25, 49, ? , 169, 289, 361

- (a) 120                      (b) 121                      (c) 122                      (d) 164

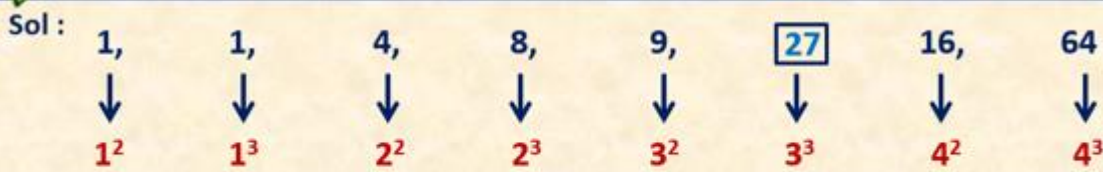
Sol.



54. 1, 1, 4, 8, 9, ? , 16, 64

- (a) 27                      (b) 28                      (c) 32                      (d) 40

Sol.



55. 5760, 960, 192, ? 16, 8

- (a) 47                      (b) 48                      (c) 52                      (d) 50

Sol.



56. 48, 24, 96 , ? 192

- (a) 48                      (b) 47                      (c) 44                      (d) 54

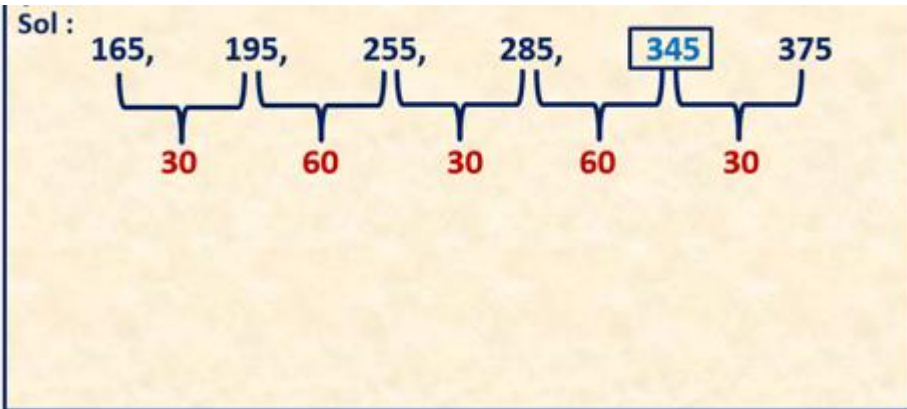
**CA Foundation**



57. 165, 195, 255, 285, ?, 435

- (a) 345      (b) 390      (c) 335      (d) 395

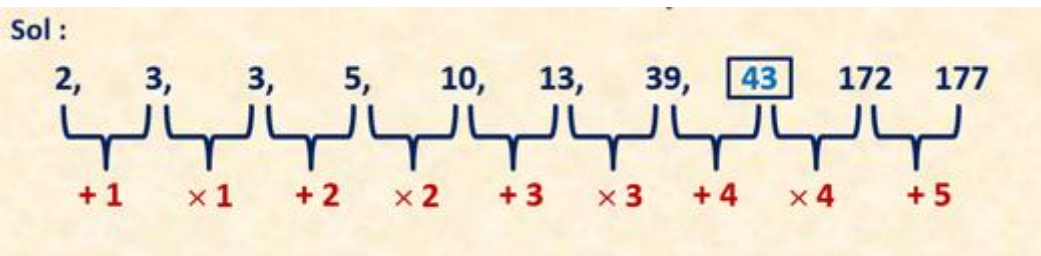
Sol.



58. 2, 3, 3, 5, 10, 13, 39, ?, 172, 177

- (a) 42      (b) 44      (c) 43      (d) 40

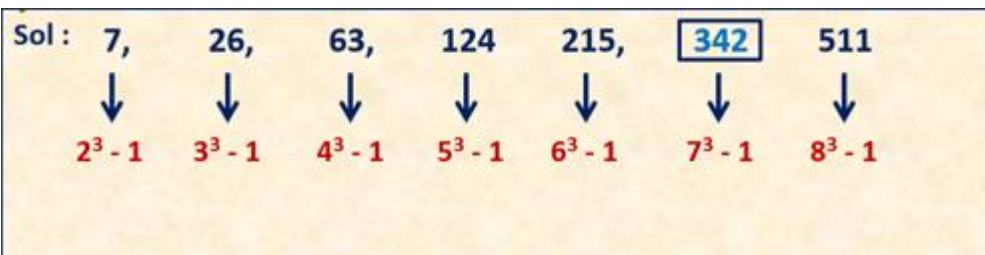
Sol.



59. 7, 26, 63, 214, 215, ?, 511

- (a) 342      (b) 343      (c) 441      (d) 421

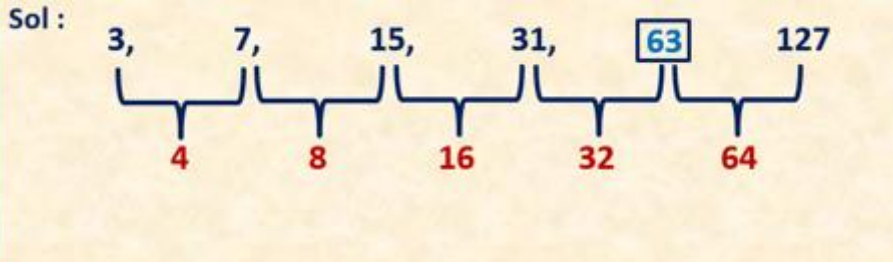
Sol.



60. 3, 7, 15, 31, ? 127

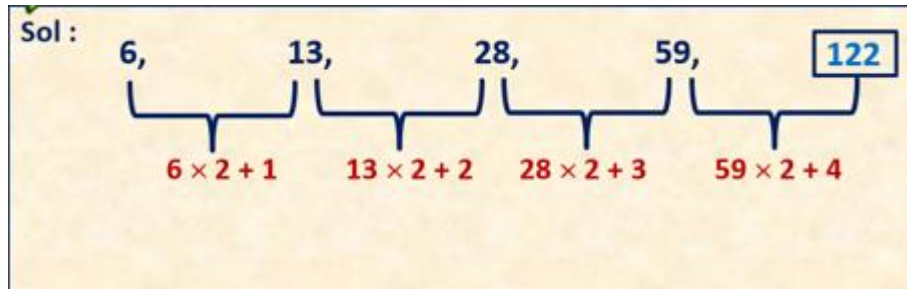
- (a) 62      (b) 63      (c) 64      (d) 65

**CA Foundation**



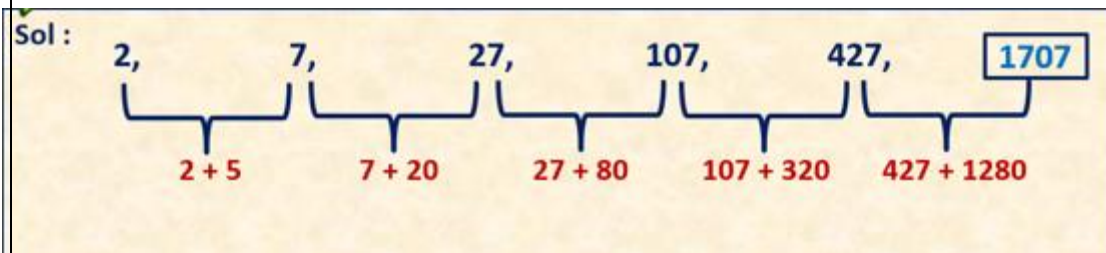
61. 6, 13, 28, 59, ?  
 (a) 122                      (b) 114                      (c) 113                      (d) 112

Sol.



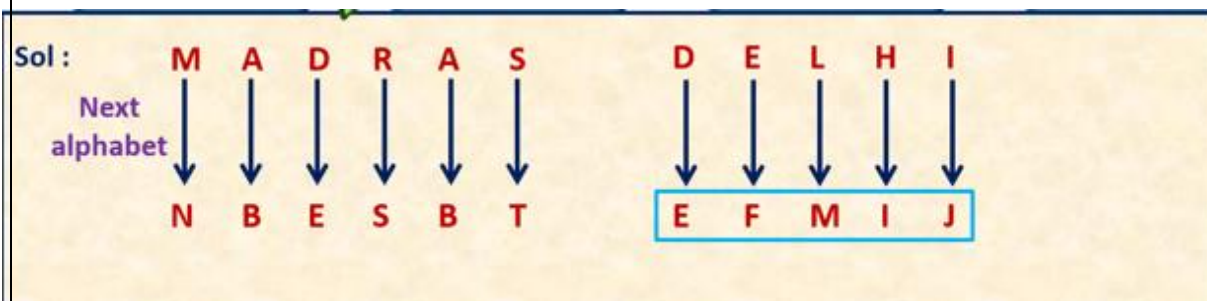
62. 2, 7, 27, 107, 427, ?  
 (a) 1707                      (b) 4027                      (c) 4207                      (d) 1207

Sol.



63. In a certain language, MADRAS is coded NBESBT, how DELHI is coded in that code?  
 (a) EMMJI                      (b) EFMIJ                      (c) EMFIJ                      (d) JIFEM

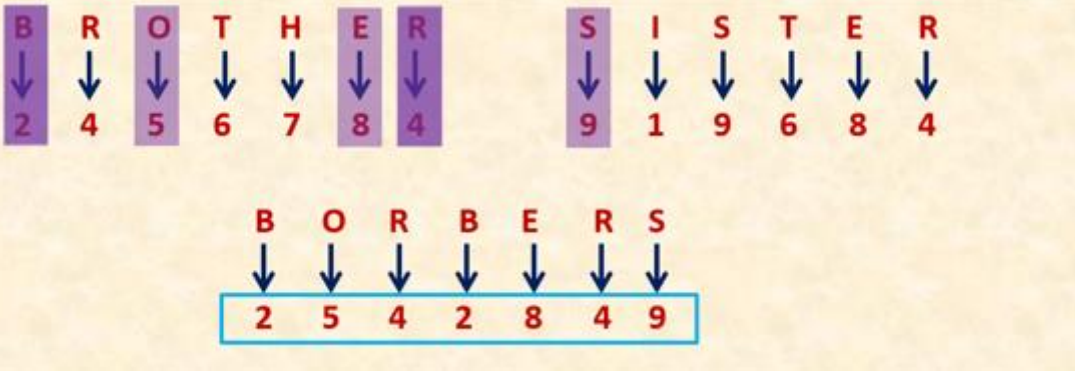
Sol.



64. If BROTHER is coded 2456784, SISTER coded as 919684, what is coded for BORBERS?  
 (a) 2542889                      (b) 2542898                      (c) 2454889                      (d) 2524889

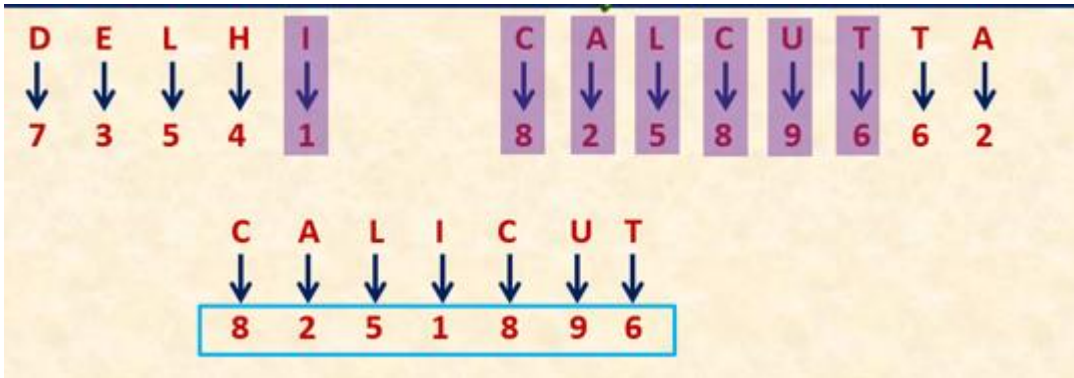
Sol.

## CA Foundation



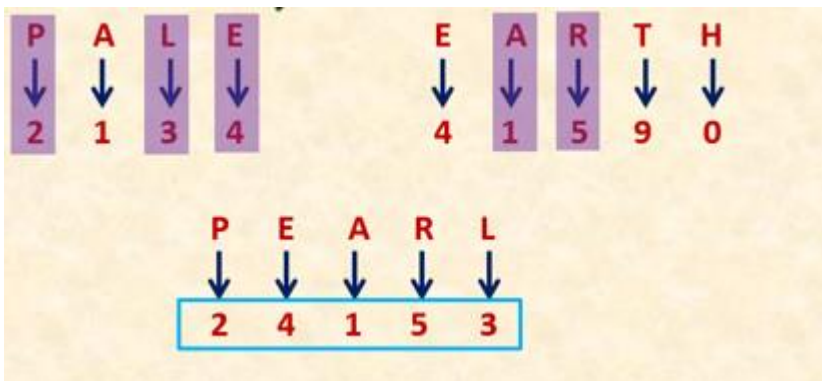
65. If DELHI is coded 73541 and CALCUTTA as 82589662, How can CALCUT be coded?  
 (a) 5279431 (b) 5978213 (c) 8251896 (d) 8543962

Sol.



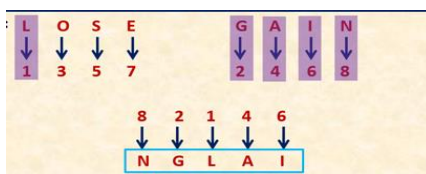
66. If PALE is coded as 2134 and EARTH is coded as 41590, how is PEARL is code?  
 (a) 29530 (b) 24153 (c) 25430 (d) 254313

Sol.



67. If LOSE is coded as 1357 and GAIN is coded as 2468, what do figure 82146 stands for?  
 (a) NGLAI (b) NGLIA (c) GNLIA (d) GNLIA

Sol.



## CA Foundation

68. If MEKLF is coded as 91782 and LLLJK as 88867, how can IHJED is coded as?

- (a) 97854      (b) 64512      (c) 54310      (d) 75632

Sol.

Sol: **M E K L F**      **L L L J K**      **I H J E D**

↓ ↓ ↓ ↓ ↓      ↓ ↓ ↓ ↓ ↓      ↓ ↓ ↓ ↓ ↓

**13 5 11 12 6**      **12 12 12 10 11**      **9 8 10 5 4**

-4 ↓ -4 ↓ -4 ↓ -4 ↓ -4 ↓      -4 ↓ -4 ↓ -4 ↓ -4 ↓ -4 ↓      -4 ↓ -4 ↓ -4 ↓ -4 ↓ -4 ↓

**9 1 7 8 2**      **8 8 8 6 7**      **5 4 6 1 0**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

69. If in a certain code language NAME is written as 4258 then what is coded as MEAN ?

- (a) 2458      (b) 5842      (c) 8524      (d) 5824

Sol.

**N A M E**      **M E A N**

↓ ↓ ↓ ↓      ↓ ↓ ↓ ↓

**4 2 5 8**      **5 8 2 4**

70. If GOLD is written as IQNF, how WIND can be written as code?

- (a) VHMC      (b) VHCM      (c) XJOE      (d) DNIW

Sol.

Sol: **G O L D**      **W I N D**

Next to Next alphabet ↓ ↓ ↓ ↓      ↓ ↓ ↓ ↓

**I Q N F**      **Y K P F**

71. If ROSE is written as TQUG, how BISCUIT can be written in that code?

- (a) DKUEWKV      (b) CJTDVJU      (c) DKVEWKV      (d) DKUEWKY

Sol.

Next to Next alphabet **R O S E**      **B I S C U I T**

↓ ↓ ↓ ↓      ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

**T Q U G**      **D K U E W K V**

72. If DELHI is coded as CCIDD, how would you encode BOMBAY?

- (a) AJMTVT      (b) AMJXVS      (c) MJXVSU      (d) WXYZAX

Sol.

## CA Foundation

Moved one, two, three, ..... steps backward to obtain the corresponding letters of the code.

73. In a certain code, RIPPLE is written as 613382 and LIFE is written as 8192. How is PILLER written in that code?

- (a) 318826      (b) 318286      (c) 618826      (d) 338816

Sol.

74. 184632

- (a) MDJBSI      (b) MDJBIL      (c) MDJBWL      (d) MDBJIL

Sol.

75. In a certain code '256' means 'you are good', '637' means 'we are bad' and '358' means 'good and bad'. Which of the following represents 'and' in that code?

- (a) 2      (b) 5      (c) 8      (d) 3

Sol. Same as Homework : Q.2.

76. 1, 4, 9, 16, 24, 25, 36

- (a) 9      (b) 24      (c) 25      (d) 36

Sol.



**CA Foundation**

77. 1, 4, 9, 16, 19, 36, 49

- (a) 19 (b) 9 (c) 49 (d) 16

Sol.

Sol: 1, 4, 9, 16, **19**, 36, 49

Except 19, all other numbers are Perfect squares.

Odd man out is 19.

78. 4, 5, 7, 10, 14, 18, 25, 32

- (a) 7 (b) 14 (c) 18 (d) 33

Sol.

Sol:

4, 5, 7, 10, 14, **18**, 25, 32

1 2 3 4 5 6 7

Odd man out is 18.

79. 52, 51, 48, 43, 34, 27, 16

- (a) 27 (b) 34 (c) 43 (d) 48

Sol.

Sol:

52, 51, 48, 43, **34**, 27, 16,

1 3 5 7 9 11

Odd man out is 34.