Mahendra's

SSC CGL/CPO/CHSL

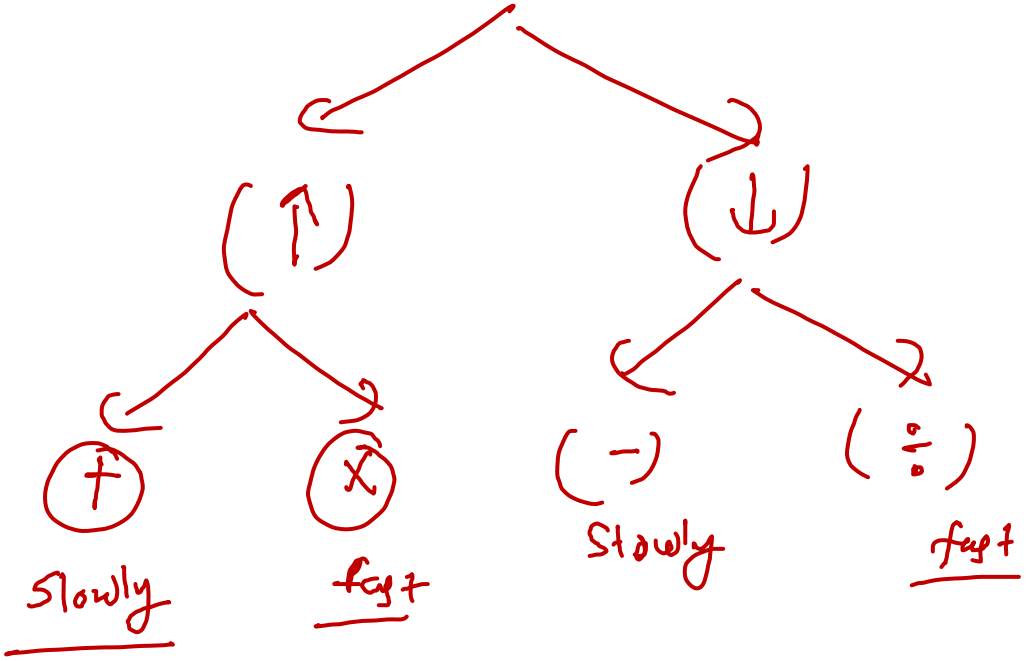
REASONING

NUMBER SERIES

PART-01

LIVE 07:30 PM

NUMBER SERIES



NUMBER SERIES

APPROCH -1

① Common difference

2nd − 1st

CD of CD →

2nd difference − 1st difference

NUMBER SERIES

APPROCH -2

find the 2nd term using the first term

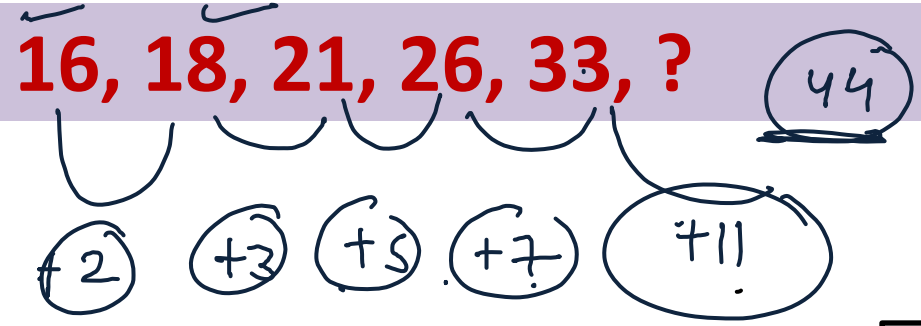
NUMBER SERIES

APPROCH -3

Based on BSS → Rej

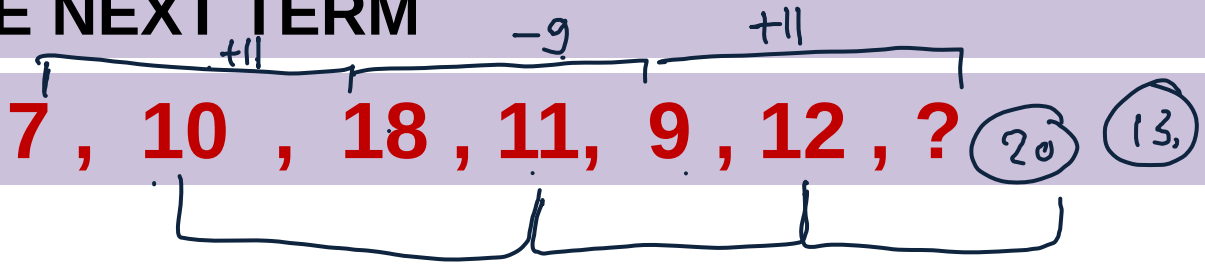
Q.1 FIND THE NEXT TERM

EXAMPLE 16, 18, 21, 26, 33, ?



(a)46
(b)44
(c)45
(d)43

Q.1 FIND THE NEXT TERM



(1) 20
(2) 22
(3) 23
(4) 26

Q.2 FIND THE NEXT TERM

7 , 10 , 18 , 11, 9 , 12 , ?

(1) 20
(2) 22
(3) 23
(4) 26

Q.3 FIND THE NEXT TERM

6, 13, 27, 55, ?, 223, 447

$\times 2 \; +1$ $\times 2 \; +1$ $\times 2 \; +1$ $\times 2 \; +1$

$6 \times 2 + 1 = 13$

$13 \times 2 + 1$

(1) ~~112~~ 111
(2) 113
(3) 114
(4) 116

Q.4 FIND THE NEXT TERM

10, 19, 37, 73, ?, 289, 577

$10 \times 2 = 20$
$20 - 1 = 19$

$19 \times 2 = 38$
$38 - 1 = 37$

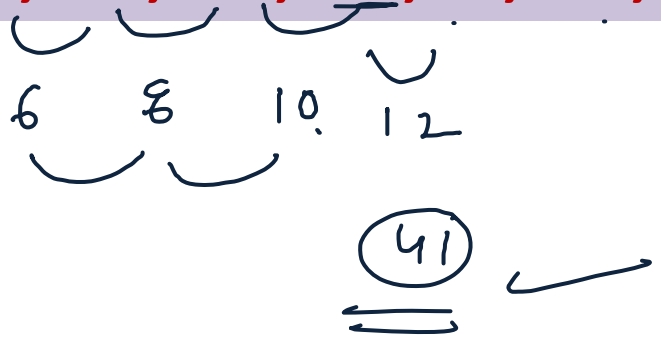
$37 \times 2 = 74$
$74 - 1 = 73$

$73 \times 2 = 146$
$146 - 1 = 145$

(1) 146
(2) 145
(3) 149
(4) 150

Q.5 FIND THE NEXT TERM

5, 11, 19, 29, ? , 55, 71



(1) 20
(2) 22
(3) 23
(4) 26

Q.6 FIND THE NEXT TERM

(Right end)

1808, 452, 448, 212, ?, 52, 48, 12, 8

×4 +4 ×4 +4

52 × 4

208

(1) 208
(2) 222
(3) 230
(4) 210

Q.7 FIND THE NEXT TERM

4, 10, 18, 38, ?, 150

A ✗

$4 \times 2 = 8 + 2 = 10$

$10 \times 2 = 20 - 2 = 18$

$18 \times 2 = 36 + 2 = 38$

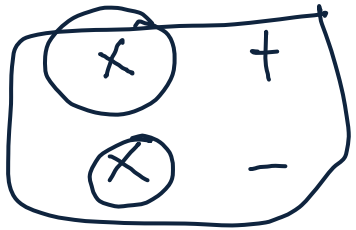
$38 \times 2 = 76 - 2 = 74$

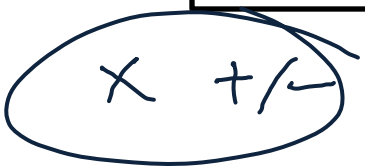
$4 \times 3 - 2 = 10$

$10 \times 2 - 2 = 18$

$18 \times 1 - 2 = 16$

(a) 78
(b) 74
(c) 84
(d) 70





Q.8 FIND THE NEXT TERM

1, 2, 6, 12, ?, 72, 216

36 ×2

×2 ×3 ×2 ×3 ×3

×2 ×3 ×2 ×3

×1 ×3

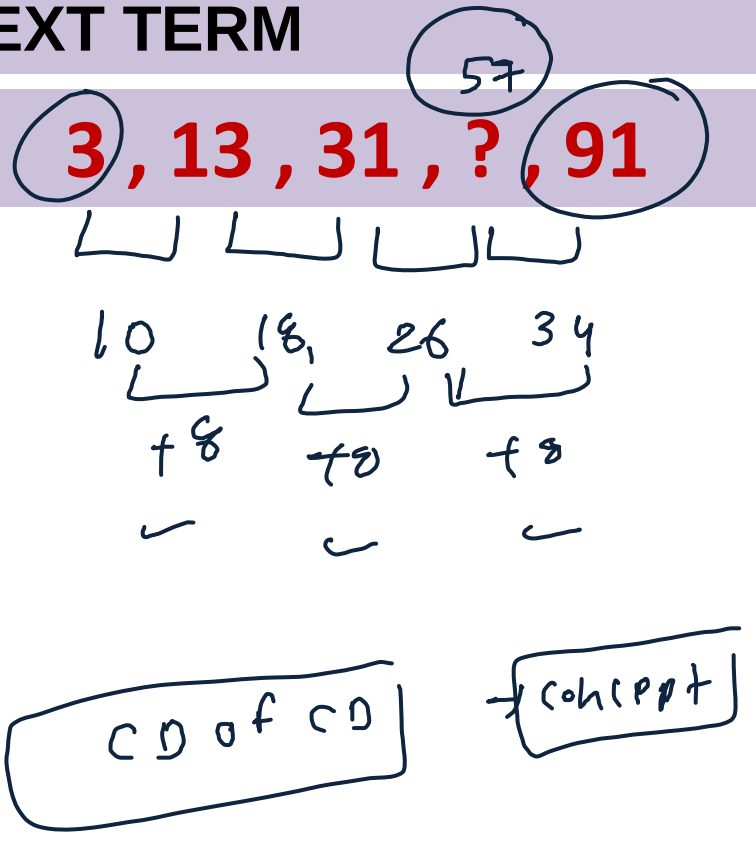
(alternate)

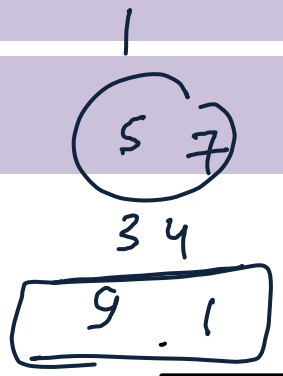
Live < Like

(a)24
(b)32
(c)36
(d)48

Q.9 FIND THE NEXT TERM

3 , 13 , 31 , ? , 91

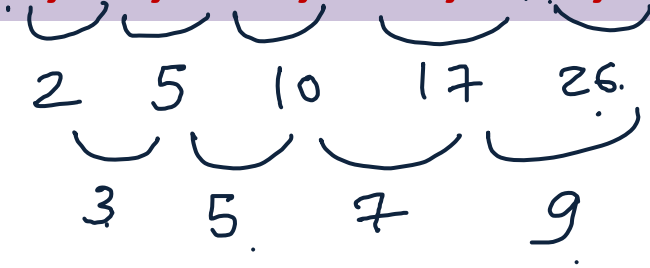




(1) 20
(2) 22
(3) 23
(4) 28

Q.10 FIND THE NEXT TERM

3 , 5 , 10 , 20 , 37 , ?



63

(odd)

d

(a) 58
(b) 61
(c) 69
(d) 63

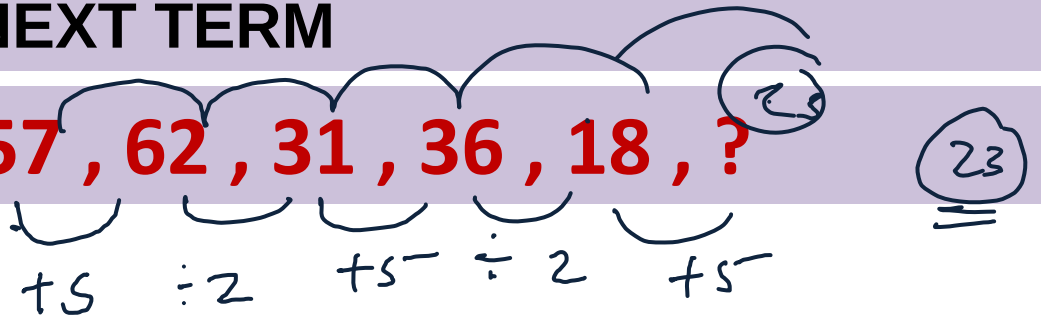
Q.11 FIND THE NEXT TERM

3 , 13 , 31 , ? , 91

(a) 48
(b) 63
(c) 69
(d) 57

Q.12 FIND THE NEXT TERM

57 , 62 , 31 , 36 , 18 , ?



(a) 34
(b) 23
(c) 19
(d) 36

Q.13 FIND THE NEXT TERM

6 , 24 , 60 , 120 , ?

BSS

6 24 60 120, ? 216 − 6 = 210

2^3-2 3^3-3 4^3-4 5^3-5 6^3-6

$6 = 1 \times 2 \times 3$

$24 = 2 \times 3 \times 4$

$60 = 3 \times 4 \times 5$

$120 = 4 \times 5 \times 6$.

$210 = 5 \times 6 \times 7$.

(a) 216
(b) 240
(c) 210
(d) 186