

Find the wrong term

————— *Reasoning with Mohit Kawatra*

1. 1, 4, 9, 15, 25, 36
(a) 9 (b) 4
(c) 15 (d) 25
2. 2, 6, 14, 30, 62, 126, 250
(a) 14 (b) 126
(c) 250 (d) 62
3. 104, 108, 54, 58, 29, 31
(a) 29 (b) 54
(c) 58 (d) 31
4. 25, 28, 23, 30, 21, 33
(a) 21 (b) 30
(c) 30 (d) 33
5. 3, 5, 7, 6, 10, 14, 12, 24, 28, 24, 40, 56
(a) 28 (b) 24
(c) 12 (d) 10
6. 16, 16, 17, 21, 27, 46, 71
(a) 27 (b) 46
(c) 16 (d) 71
7. 2, 8, 3, 27, 4, 64, 5, 225
(a) 27 (b) 8
(c) 225 (d) 64
8. 13, 24, 29, 39, 44, 54, 61, 69
(a) 61 (b) 13
(c) 44 (d) 24
9. 8, 16, 24, 40, 62, 104, 168
(a) 24 (b) 40
(c) 62 (d) 104
10. 20, 40, 200, 400, 2000, 4000, 8000
(a) 200 (b) 2000
(c) 8000 (d) 4000
11. 9, 14, 19, 25, 32, 40
(a) 14 (b) 25
(c) 32 (d) 9
12. 5, 11, 23, 47, 96
(a) 47 (b) 23
(c) 96 (d) 11
13. 25, 36, 49, 81, 121, 169, 225
(a) 36 (b) 121
(c) 49 (d) 81
14. 102, 101, 98, 93, 86, 74, 66, 53
(a) 101 (b) 66
(c) 74 (d) 93
15. 4131, 1377, 461, 153, 51
(a) 461 (b) 153
(c) 1377 (d) 51
16. 216, 163, 120, 72, 24
(a) 216 (b) 163
(c) 72 (d) 24
17. 6, 14, 31, 64, 137, 280
(a) 31 (b) 64
(c) 137 (d) 280
18. 2, 9, 28, 63, 126
(a) 2 (b) 9
(c) 63 (d) 126
19. 15, 6, 26, 8, 37, 10, 48, 13, 59, 14, 70
(a) 13 (b) 48
(c) 56 (d) 85
20. 4, 5, 10, 8, 9, 18, 16, 18, 34, 32, 33
(a) 16 (b) 18
(c) 34 (d) 35
21. 14, 41, 52, 25, 36, 63, 74, 47, 56, 85
(a) 74 (b) 47
(c) 56 (d) 85
22. 2, 12, 30, 56, 85, 132, 182, 240
(a) 56 (b) 85
(c) 132 (d) 152
23. 5, 3, 6, 10, 9, 12, 17, 15, 18, 23
(a) 6 (b) 10
(c) 9 (d) 12
24. 5, 2, 26, 82, 101, 50, 65, 123
(a) 2 (b) 82
(c) 50 (d) 123
25. 8, 29, 113, 449, 1789
(a) 8 (b) 449
(c) 29 (d) 1789

26. 5, 9, 15, 23, 34, 45, 59
 (a) 34 (b) 45
 (c) 59 (d) 2
27. 2, 12, 30, 56, 85, 132, 182, 240
 (a) 56 (b) 85
 (c) 132 (d) 112
28. 112, 114, 120, 124, 132, 142, 154
 (a) 114 (b) 120
 (c) 124 (d) 132
29. 5, 11, 23, 47, 96, 191, 383
 (a) 11 (b) 23
 (c) 47 (d) 96
30. 7, 9, 17, 42, 91, 172, 293
 (a) 9 (b) 24
 (c) 42 (d) 91
31. 27, 26, 28, 25, 29, 24, 31
 (a) 24 (b) 29
 (c) 31 (d) 28
32. 325, 259, 202, 160, 127, 105, 94
 (a) 259 (b) 202
 (c) 127 (d) 105
33. 54, 43, 34, 26, 22, 19, 18
 (a) 43 (b) 34
 (c) 26 (d) 22
34. 169, 121, 80, 49, 25, 9, 1
 (a) 121 (b) 80
 (c) 49 (d) 25
35. 1, 4, 10, 22, 46, 95, 190
 (a) 4 (b) 10
 (c) 95 (d) 46
36. 9, 13, 21, 37, 69, 132, 216
 (a) 21 (b) 37
 (c) 69 (d) 132
37. 98, 95, 86, 82, 66, 64, 36
 (a) 98 (b) 66
 (c) 64 (d) 82
38. 15, 19, 20, 22, 27, 29, 36, 38
 (a) 20 (b) 19
 (c) 27 (d) 29
39. 33, 48, 69, 84, 105, 128
 (a) 69 (b) 128
 (c) 84 (d) 105
40. 1, 9, 25, 49, 97
 (a) 9 (b) 49
 (c) 25 (d) 97
41. 5, 16, 51, 149, 481
 (a) 5 (b) 149
 (c) 16 (d) 481
42. 7, 12, 25, 42, 82, 162
 (a) 25 (b) 82
 (c) 162 (d) 42
43. 3917, 3526, 3174, 2875, 2572
 (a) 2875 (b) 3174
 (c) 3917 (d) 3526
44. 5, 11, 21, 48, 85, 171
 (a) 48 (b) 85
 (c) 11 (d) 171
45. 1, 1, 2, 4, 3, 9, 4, 16, 5, 26, 6, 36
 (a) 4 (b) 26
 (c) 3 (d) 9
46. 7714, 7916, 8190, 8311
 (a) 7714 (b) 7916
 (c) 8190 (d) 8311
47. 313, 623, 934, 1243, 1553
 (a) 934 (b) 1243
 (c) 623 (d) 1553
48. 13, 29, 56, 115, 234
 (a) 29 (b) 56
 (c) 13 (d) 115
49. 2, 4, 13, 45, 106, 232
 (a) 45 (b) 13
 (c) 4 (d) 232
50. 5, 13, 45, 104, 229
 (a) 104 (b) 229
 (c) 13 (d) 45
51. GEA, IFB, LHA, QKB, XOA, HTB
 (a) GEA (b) IFB
 (c) XOA (d) HTB

52. YZ, BCD, FGHI, JKLMN, QRSTUV
(a) BCD (b) JKLMN
(c) YZ (d) FGHI
53. LGG, PJJ, KMO, OPT, LSG, NUL
(a) PJJ (b) OPT
(c) NUL (d) LSG
54. MNL, KPJ, IRH, GUF
(a) GUF (b) IRH
(c) MNL (d) KPJ
55. UV, OZ, IB, EE, AH
(a) IB (b) EE
(c) AH (d) OZ
56. DNU, ISY, NXE, SCJ, XHO
(a) DNU (b) ISY
(c) SCJ (d) NXE
57. ABZ, BCY, CDX, DEW, FEV
(a) BCY (b) DEW
(c) FEV (d) ABZ
58. CURB, ESPC, GRND, IOLE, KMJF
(a) GRND (b) IOLE
(c) CURB (d) KMJF
59. HERO, GISM, FMUK, EQUI, DUVG
(a) GISM (b) DUVG
(c) FMUK (d) EQUI
60. HCE, MHJ, QNN, TOQ, VQS, WRT
(a) TOQ (b) VQS
(c) MHJ (d) QNN
61. MOG, OMI, QJK, SIM, UGO
(a) QJK (b) OMI
(c) UGO (d) MOG
62. KP, PK, TG, VE, YB, ZA
(a) PK (b) VE
(c) TG (d) ZA
63. FANY, JERC, NIVG, RMYK, VQDO
(a) FANY (b) RMYK
(c) NIVG (d) VQDO
64. ASBQ, XOYM, UKVI, RQSE, OCPA
(a) RQSE (b) OCPA
(c) XOYM (d) UKVI
65. ND, KA, HX, EU, BS
(a) HX (b) KA
(c) BS (d) EU
66. VC, WD, XE, YF, ZG, AH, BJ
(a) VC (b) XE
(c) AH (d) BJ
67. TABQ, WCET, XEHW, ZGKZ, BINC
(a) WCET (b) ZGKZ
(c) TABQ (d) XEHW
68. ARP, BUQ, CYR, DAS, EDT
(a) BUQ (b) CYR
(c) DAS (d) ARP
69. HAF, SFG, UII, FOL, HUP
(a) HAF (b) UII
(c) SFG (d) FOL
70. PHD, TZU, XRL, BJC, FAT
(a) TZU (b) FAT
(c) BJC (d) XRL

Answer Key

1.(c)	2.(c)	3.(d)	4.(d)	5.(b)	6.(a)	7.(c)	8.(c)	9.(c)	10.(c)
11.(d)	12.(c)	13.(a)	14.(c)	15.(a)	16.(b)	17.(b)	18.(c)	19.(a)	20.(c)
21.(d)	22.(b)	23.(b)	24.(d)	25.(d)	26.(a)	27.(b)	28.(b)	29.(d)	30.(a)
31.(c)	32.(b)	33.(c)	34.(b)	35.(c)	36.(d)	37.(c)	38.(b)	39.(a)	40.(d)
41.(b)	42.(a)	43.(a)	44.(a)	45.(b)	46.(c)	47.(a)	48.(a)	49.(a)	50.(d)
51.(d)	52.(b)	53.(c)	54.(a)	55.(d)	56.(b)	57.(c)	58.(a)	59.(c)	60.(d)
61.(a)	62.(b)	63.(b)	64.(a)	65.(c)	66.(d)	67.(a)	68.(b)	69.(c)	70.(b)

14.(c) $102 - 1 = 101$

$101 - 3 = 98$

$98 - 5 = 93$

$93 - 7 = 86$

$86 - 9 = 77$

$77 - 11 = 66$

$66 - 13 = 53$

Hence, 74 number is wrong. Instead of 74 there should be 77 .

15.(a) $\frac{4131}{3} = 1377$

$\frac{1377}{3} = 459$

$\frac{459}{3} = 153$

$\frac{153}{3} = 51$

Here, 461 is the wrong term .
Instead of 461 there should be 459.

16.(b) $216 \quad 168 \quad 120 \quad 72 \quad 24$
 $\begin{array}{cccccc} & \uparrow & \uparrow & \uparrow & \uparrow & \\ & -48 & -48 & -48 & -48 & \end{array}$

The number 163 is wrong in the series and it should be replaced with 168.

17.(b) $6 \quad 14 \quad 31 \quad 66 \quad 137 \quad 280$
 $\begin{array}{cccccc} & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+2 & \times 2+3 & \times 2+4 & \times 2+5 & \times 2+6 & \end{array}$

Here, 64 is the wrong term. Instead of 64 there should be 66

18.(c) $2 \quad 9 \quad 28 \quad 63 \quad 126$
 $\begin{array}{ccccc} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ 1^3+1 & 2^3+1 & 3^3+1 & 4^3+1 & 5^3+1 \end{array}$

Here, 63 is the wrong term. Instead of 63 there should be 65.

19.(a)

$$\begin{array}{cccccccc} & +11 & & +11 & & +11 & & +11 & & +11 & \\ 15 & 6 & 26 & 8 & 37 & 10 & 48 & 13 & 59 & 14 & 70 \\ & +2 & & +2 & & +2 & & +2 & & +2 & \end{array}$$

Here, 13 is the wrong term. Instead of 13 there should be 12.

20.(c) $4 \quad 5 \quad 10 \quad 8 \quad 9 \quad 18 \quad 16 \quad 18 \quad 34 \quad 32 \quad 33 \quad 33$
 $\begin{array}{cccccccc} & \times 2 & & \times 2 & & \times 2 & & \times 2 & & & & \\ & \times 2 & & \times 2 & & \times 2 & & \times 2 & & & & \end{array}$

Here, 34 is the wrong term. Instead of 34 there should be 36.

21.(d) $14 \Rightarrow 41, 52 \Rightarrow 25, 36 \Rightarrow 63,$

65

$74 \Rightarrow 47, 56 \Rightarrow 85$

Here, 85 is the wrong term . Instead of 85 there should be 65.

22.(b) $2 \quad 12 \quad 30 \quad 56 \quad 85 \quad 132 \quad 182 \quad 240$
 $\begin{array}{cccccccc} & +10 & & +18 & & +26 & & +34 & & +42 & & +50 & & +58 & \end{array}$

Here, 85 is the wrong term. Instead of 85 there should be 90.

23.(b) $5 \quad 3 \quad 6 \quad 10 \quad 9 \quad 12 \quad 17 \quad 15 \quad 18 \quad 23$
 $\begin{array}{cccccccc} & -2 & & +3 & & +5 & & -2 & & +3 & & +5 & & -2 & & +3 & & +5 & \end{array}$

Here, 10 is the wrong term. Instead of 10 there should be 11.

24.(d) Excluding 123, all are the square of a number and then added to 1.

25.(d) $8 \quad 29 \quad 113 \quad 449 \quad 1789$
 $\begin{array}{cccccc} & \times 4-3 & & \times 4-3 & & \times 4-3 & & \times 4-3 & \\ & \times 4-3 & & \times 4-3 & & \times 4-3 & & \times 4-3 & \end{array}$

Here, 1789 is the wrong term. Instead of 1789 there should be 1793.

26.(a) $5 \quad 9 \quad 15 \quad 23 \quad 34 \quad 45 \quad 59$
 $\begin{array}{cccccccc} & +4 & & +6 & & +8 & & +10 & & +12 & & +14 & \end{array}$

Here, 34 is the wrong term . Instead of 34 there should be 33.

27.(b) $2 \quad 12 \quad 30 \quad 56 \quad 85 \quad 132 \quad 182 \quad 240$
 $\begin{array}{cccccccc} & +10 & & +18 & & +26 & & +34 & & +42 & & +50 & & +58 & \end{array}$

Here, 85 is the wrong term . Instead of 85 there should be 90.

28.(b)
$$\begin{array}{cccccccc} & & 118 & & & & & \\ & & \boxed{120} & & & & & \\ 112 & 114 & & 124 & 132 & 142 & 154 & \\ \hline & +4 & +6 & +8 & +10 & +12 & +14 & \end{array}$$

Here, 120 is the wrong term . Instead of 120 there should be 118.

29.(d)
$$\begin{array}{cccccccc} & & & & 95 & & & \\ & & & & \boxed{96} & & & \\ 5 & 11 & 23 & 47 & & 191 & 383 & \\ \hline & +6 & +12 & +24 & +48 & +96 & +192 & \end{array}$$

Here, 96 is the wrong term . Instead of 96 there should be 95.

30.(a)
$$\begin{array}{cccccccc} & & 8 & & & & & \\ & & \boxed{9} & & & & & \\ 7 & & 17 & 42 & 91 & 172 & 293 & \\ \hline & +1^2 & +3^2 & +5^2 & +7^2 & +9^2 & +11^2 & \end{array}$$

Here, 9 is the wrong term . Instead of 9 there should be 8.

31.(c)
$$\begin{array}{cccccccc} & & & & & & 30 & \\ & & & & & & \boxed{31} & \\ 27 & 26 & 28 & 25 & 29 & 24 & & \\ \hline & +1 & +1 & +1 & & & & \end{array}$$

Here, 31 is the wrong term. Instead of 31 there should be 30.

32.(b)
$$\begin{array}{cccccccc} & & 204 & & & & & \\ & & \boxed{202} & & & & & \\ 325 & 259 & & 160 & 127 & 105 & 94 & \\ \hline & -66 & -55 & -44 & -33 & -22 & -11 & \end{array}$$

Here, 202 is the wrong term . Instead of 202 there should be 204.

33.(c)
$$\begin{array}{cccccccc} & & & & 27 & & & \\ & & & & \boxed{26} & & & \\ 54 & 43 & 34 & & 22 & 19 & 18 & \\ \hline & -11 & -9 & -7 & -5 & -3 & -1 & \end{array}$$

Here, 26 is the wrong term . Instead of 26 there should be 27.

34.(b)
$$\begin{array}{cccccccc} & & & & & & 81 & \\ & & & & & & \boxed{80} & \\ 169 & 121 & 80 & 49 & 25 & 9 & 1 & \\ \hline \uparrow & \uparrow \\ 13^2 & 11^2 & 9^2 & 7^2 & 5^2 & 3^2 & 1^2 & \end{array}$$

Here, 80 is the wrong term. Instead of 80 there should be 81.

35.(c)
$$\begin{array}{cccccccc} & & & & & & 94 & \\ & & & & & & \boxed{95} & \\ 1 & 4 & 10 & 22 & 46 & & 190 & \\ \hline & \times 2+2 & \end{array}$$

Here, 95 is the wrong term. Instead of 95 there should be 94.

36.(d)
$$\begin{array}{cccccccc} & & & & & & 133 & \\ & & & & & & \boxed{132} & \\ 9 & 13 & 21 & 37 & 69 & & 261 & \\ \hline & +4 & +8 & +16 & +32 & +64 & +128 & \end{array}$$

Here, 132 is the wrong term. Instead of 132 there should be 133.

37.(c)
$$\begin{array}{cccccccc} & & & & & & 61 & \\ & & & & & & \boxed{64} & \\ 98 & 95 & 86 & 82 & 66 & & 36 & \\ \hline & -3 & -4 & -5 & & & & \end{array}$$

Here, 64 is the wrong term. Instead of 64 there should be 61.

38.(b)
$$\begin{array}{cccccccc} & & & +5 & & +7 & & +9 \\ & & & \boxed{19} & & 20 & 22 & 27 & 29 & 36 & 38 \\ & & & +5 & & +7 & & +9 & & & \end{array}$$

Here, 19 is the wrong term. Instead of 19 there should be 17.

39.(a)
$$\begin{array}{cccccccc} & & & & 65 & & & \\ & & & & \boxed{69} & & & \\ 33 & 48 & & 84 & 105 & 128 & & \\ \hline & +15 & +17 & +19 & +21 & +23 & & \end{array}$$

Here, 69 is the wrong term. Instead of 69 there should be 65.

40.(d)
$$\begin{array}{cccccc} & & & & 81 & \\ & & & & \boxed{97} & \\ 1 & 9 & 25 & 49 & & \\ \hline & 1^2 & 3^2 & 5^2 & 7^2 & 9^2 \end{array}$$

Here, 97 is the wrong term. Instead of 97 there should be 81.

41.(b)
$$\begin{array}{cccccccc} & & & & 158 & & & \\ & & & & \boxed{149} & & & \\ 5 & 16 & 51 & & 481 & & & \\ \hline & \times 3+1 & \times 3+3 & \times 3+5 & \times 3+7 & & & \end{array}$$

Here, 149 is the wrong term. Instead of 149 there should be 158.

42.(a) $7 \ 12 \ \boxed{25} \ 42 \ 82 \ 162$
 $+5 \ +10 \ +20 \ +40 \ +80$

Here, 25 is the wrong term. Instead of 25 there should be 22.

43.(a) $3917 \ 3526 \ 3174 \ \boxed{2875} \ 2572$
 $-391 \ -352 \ -317 \ -285$

Here, 2875 is the wrong term. Instead of 2875 there should be 2857.

44.(a) $5 \ 11 \ 21 \ \boxed{48} \ 85 \ 171$
 $\times 2+1 \ \times 2-1 \ \times 2+1 \ \times 2-1 \ \times 2+1$

Here, 48 is the wrong term. Instead of 48 there should be 43.

45.(b) $1 \ 1 \ 2 \ 4 \ 3 \ 9 \ 4 \ 16 \ 5 \ \boxed{26} \ 6 \ 36$
 $1^2 \ 2^2 \ 3^2 \ 4^2 \ 5^2 \ 6^2$

Here, 26 is the wrong term. Instead of 26 there should be 25.

46.(c) $7714 \ 7916 \ \boxed{8190} \ 8311$
 $+202 \ +202$

Here, 8190 is the wrong term. Instead of 8190 there should be 8109.

47.(a) $313 \ 623 \ \boxed{934} \ 1243 \ 1553$
 $+310 \ +310 \ +310 \ +310$

Here, 934 is the wrong term. Instead of 934 there should be 933.

48.(a) $13 \ \boxed{29} \ 56 \ 115 \ 234$
 $\times 2+1 \ \times 2+2 \ \times 2+3 \ \times 2+4$

Here, 29 is the wrong term. Instead of 29 there should be 27.

49.(a) $2 \ 4 \ 13 \ \boxed{45} \ 106 \ 232$
 $+2 \ +9 \ +28 \ +65 \ +126$
 $1^2+1 \ 2^2+1 \ 3^2+1 \ 4^2+1 \ 5^2+1$

Here, 45 is the wrong term. Instead of 45 there should be 41.

50.(d) $5 \ 13 \ \boxed{45} \ 104 \ 229$
 $+8 \ +27 \ +64 \ +125$
 $2^3 \ 3^3 \ 4^3 \ 5^3$

Here, 45 is the wrong term. Instead of 45 there should be 40.

51.(d) $G \ E \ A \ I \ F \ B \ L \ H \ A \ Q \ K \ B \ X \ O \ A \ \boxed{H \ T \ B} = I \ T \ B$
 $+2 \ +3 \ +5 \ +7 \ +11$
 $+1 \ -1 \ +1 \ -1 \ +1$

52.(b) $Y \ Z \ B \ C \ D \ F \ G \ H \ I \ \boxed{J \ K \ L \ M \ N \ O} \ Q \ R \ S \ T \ U \ V$
 $+2 \ +2 \ +2 \ +2$

53.(c) $L \ G \ G \ P \ J \ L \ K \ M \ O \ O \ P \ T \ L \ S \ G \ \boxed{N \ U \ L} = P \ V \ L$
 $+3 \ +3 \ +3 \ +3 \ +3$
 $+4 \ +4 \ +4 \ +4 \ +4$
 $+5 \ +5 \ +5 \ +5 \ +5$

54.(a) $M \ N \ L \ K \ P \ J \ I \ R \ H \ \boxed{G \ U \ F} = G \ T \ F$
 $+2 \ +2 \ +2$
 $-2 \ -2 \ -2 \ -2$

55.(d) $U \ V \ \boxed{O \ Z} \ I \ B \ E \ E \ A \ H$
 $+3 \ +3 \ +3 \ +3$
 Vowel in Reverse order
 O Y

56.(b) $D \ N \ U \ \boxed{I \ S \ Y} \ N \ X \ E \ S \ C \ J \ X \ H \ O$
 $+5 \ +5 \ +5 \ +5$
 $+5 \ +5 \ +5 \ +5$
 ISZ

