





04	
24	24. c) 46
	Solution:
	$24 + 2^2 = 24 + 4 = 28$
	$28 - 3^2 = 28 - 9 = 19$
	$19 + 4^2 = 19 + 16 = 35$
	$35 - 5^2 = 35 - 25 = 10$
	$10 + 6^2 = 10 + 36 = 46$
	$10 + 6^{\circ} = 10 + 36 = 46$
25	25. a) 32
20	Solution: 14 x 1 - 8 = 6
	6 x 2 - 8 = 4 4 x 3 - 8 = 4
	4 x 3 - 8 = 4 4 x 4 - 8 = 8
	8 x 5 - 8 = 32
26	26. c) 179 Solution: 14, 25, 47, 91, ?, 355
	14 x 2 - 3 = 25
	25 x 2 - 3 = 47 47 x 2 - 3 = 91
	91 x 2 - 3 = 91 91 x 2 - 3 = 179
27	A
	· 7 +6 +5 +4
	31+1=35
	+13 +20 +26 +31
	11 24 44 70 101
	101+35=136
28	28. d) 176
	Solution: 18, 8, 6, 8, 24,? 18 x 0.5- 1 = 8
	8 x 1- 2 = 6
	6 x 2 - 4 = 8 8 x 4 - 8 = 24
	24 x 8 - 16 = 176
29	В
	+7 +11
	+"
	28 32 23 39 14 2
	-5 -9 39+11
	= 50
30	e) 4056
	Solution: 5, 12, 33, 136, 675, ? 5 x 2 + 2 = 12
	$3 \times 2 + 2 = 12$ $12 \times 3 - 3 = 33$
	33 x 4 + 4 = 136
	136 x 5 - 5 = 675 675 x 6 + 6 = 4056
	0.0.0.0.0.000

31	a) 2, 4, 12, 48, 240,
- '	The pattern is: to arrive at a term, the previous term is being multiplied by (n+1) where 'n' keeps on increasing
	by 1 for every term.
	$4 = 2 \times (2+0)$
	$12 = 4 \times (2 + 1)$
	$48 = 12 \times (2 + 2)$
	$240 = 48 \times (2 + 3)$
	\Rightarrow Next term = 240 × (2 + 4) = 240 × 6 = 1440
32	c) 2, 5, 9, 19, 37,
-	The pattern is: every number is arrived at previous number multiplied by 2 and then alternate addition and
	subtraction by 1 i.e. 2
	5=2×2+1
	9=5×2-1
	19=9×2+1
	37=19×2-1
	the next term $37 \times 2 + 1 = 75$
33	b) 4, -8, 16, -32, 64,
	The pattern is: Every number is arrived at by multiplying previous alternate number with '4' as shown below:
	4 x 4 = 16
	$-8 \times 4 = -32$
	16 x 4 = 64
	$-32 \times 4 = -128$
	Hence, '-128' is the correct answer
34	e) 2, 9, 28, 65, 126, 216, 344.
	The pattern in the series is that the series is triangular as shown below:
	217
	2 9 28 65 126 ₉₁ 216 ₁₂₇ 344
	64 000 120
	30
	12 18 24 29 38
	6 6
	6 0 3
	In the triangular series, the difference between consecutive terms is written below the numbers and then,
	difference between consecutive differences is written below & this process carries on until all the difference
	become equal. In the figure above there was an error & we have corrected it.
35	d) 10, 26, 74, 218, 654, 1946, 5834
	The pattern is: to arrive at next term, the previous is multiplied by 3 and subtracted by 4: 10
	$10 \times 3 - 4 = 26$
	$26 \times 3 - 4 = 74$
	$74 \times 3 - 4 = 218$
	218 \times 3 $-$ 4 = 650 \neq 654
	$650 \times 3 - 4 = 1946$
	$1946 \times 3 - 4 = 5834$
	Here, '654' was wrong.
36	d) The series is - 1.1, - 2.2, - 4.4, - 8.8, - 17.6
37	e) The series is: + 11 ² , + 122, + 132, + 142, + 152
38	c) The series is: x5, x5, x5
39	d) The series is: x1, x5, x9, x13, x17, x21
40	b) The series is: 14, 24, 32, 42, 54, 64, 74 (= 2401
41	d.) 2401
''	Solution: 1 x 7 = 7
	7x 7 = 49
	49 x 7 = 343
	$343 \times 7 = 2401$
42	010 / 1 - 2701
74	42. d) 248
	Solution:
	13+12 ² +3, 20+ 4 ² +3, 39+6 ² +3, 78+8 ² +3, 145+ 10 ² +3
	15 דו אידער, אידער אידער, אידער אידער, אידער אידער, אידער אידער, אידער א
43	a) 725
. •	

5

	Solution: difference x 2
44	e) none
	Solution: +97,+197+297,+397,+497 991+497 = 1488
45	c) 287
	Solution: + 7x1, +7x3, +7x5, +7x7, +7x9
46	a) 25.2
	18.3 + 2.3 = 20.6
	20.6 - 4.6 = 16
	16 + 6.9 = 22.9
	22.9 - 9.2 = 13.7
İ	13.7 +11.5 = 25.2
	25.2 - 13.8 = 11.4
47	c) 61
	$9 \times 0.5 + 0.5 = 5$
	$5 \times 1 + 1 = 6$
	6 x 1.5 + 1.5 = 10.5
	$10.5 \times 2 + 2 = 23$
	$23 \times 2.5 + 2.5 = 60$
	$60 \times 3 + 3 = 183$
48	e) 188
	186 - 36 = 154
	154 - 16 = 140
	140 - 8 = 132
	132 - 4 = 128
	128 - 2 = 126
	126 - 1 = 125
49	d) 151
	$2 \times 1 + 2 = 4$
	$4 \times 2 + 3 = 11$
	$11 \times 3 + 4 = 37$
	$37 \times 4 + 5 = 153$
	153 x 5 + 6 = 771
	771 x 6 + 7 = 4633
50	b) 394
	391 + 2 = 393
	393 + 6 = 399
	399 + 12 = 441
	441+ 20 = 431
	431 + 30 = 461
	461 +40 = 503