NUMBER SERIES

NATIONALISED BANKS & IBPS SO/MT/SO

Directions (1-5): In the following number series, a wrong number is given. Find out that wrong number.

(Canara Bank PO Exam. 09.02.2003)

- 1. 2 11 38 197 1172 8227 65806 (1) 11 (2) 38 (3) 197 (4) 1172
- (5) 8227 **2.** 16 19 21 30 46 71 107
 - (1) 19 (2) 21 (3) 30 (4) 46 (5) 71
- 3. 7 9 16 25 41 68 107 173 (1) 107 (2) 16 (3) 41 (4) 68 (5) 25
- **4**. 4 2 3.5 7.5 26.25 118.125 (1) 118.125 (2) 26.25 (3) 3.5 (4) 2 (5) 7.5
- **5.** 16 4 2 1.5 1.75 1.875 (1) 1.875 (2) 1.75 (3) 1.5 (4) 2 (5) 4

Directions (6-10): What will come in place of the question mark (?) in the following number series ?

(Syndicate Bank PO Exam. 10.10.2004)

- 6. 3 10 32 100 ? (1) 345 (2) 460 (3) 308 (4) 440 (5) None of these
- (5) None of these

 7. 5 3 4 ? 38
 (1) 8.5 (2) 6
 (3) 7.5 (4) 8
 (5) None of these
- 8. 5 6 ? 57 244 (1) 21 (2) 16 (3) 17 (4) 15 (5) None of these
- 9. 3 10 21 ? 51 (1) 34 (2) 32 (3) 33 (4) 37 (5) None of these
- 10. 5 11 ? 55 117 (1) 21 (2) 27 (3) 23 (4) 25

(5) None of these **Directions (11-15)**: In each of the following questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with

the number given, following the sequence of the original series and answer the questions that follow the series.

(Union Bank of India PO Exam. 27.11.2005)

- 11. 12 30 120 460 1368 2730 16 (a) (b) (c) (d) (e) What will come in place of (d) ? (1) 1384 (2) 2642 (3) 2808 (4) 1988
 - (5) None of these
- 12. 154 462 231 693 346.5 1039.5 276 (a) (b) (e) (c) (d) What will come in place of (e)? (1) 1746(2)621(3) 1242(4)983
 - (5) None of these
- **13**. 91 7007 1001 35035 105 7 14.5 (a) (b) (c) (d) (e) What will come in place of (c)? (1) 21132.5 (2) 14514.5 (3) 20020.5(4) 13864.5
- (5) None of these 582 601 537 662 446 14. 574 204 (a) (b) (c) (d) (e) What will come in place of (d)? (1) 284(2)68
 - (3) 174(5) None of these
- 15. 85 43 44 67.5 137 345 125 (a) (b) (c) (d) (e) What will come in place of (c) ? (1) 86 (2) 107.5 (3) 112.5 (4) 97.5
 - (3) 112.5(5) None of these

Directions (16-22): What will come in place of the question mark (?) in the following number series?

(Corporation Bank Po Exam. 29.07.2006)

(4) 331

- 16. 1 ? 27 64 125 (1) 8 (2) 4 (3) 6 (4) 9 (5) None of these
- 17. 25 16 ? 4 1 (1) 3 (2) 6 (3) 12 (4) 18 (5) None of these
- 18. 1 6 36 240 1960? (1) 19660 (2) 3680 (3) 36800 (4) 19600 (5) None of these
- **19.** 12 14 17 13 8 14 21 13 4?

	•	2	
	(1) 14 (2) 13		(3) 1764 (4) 3136
	(3) 15 (4) 2		(5) 6561
	(5) None of these	31.	23 25 53 163 657 3291?
20.	257 12 19 31 50?		(1) 16461 (2) 13169
	(1) 53 (2) 81		(3) 9877 (4) 23045
	(3) 69 (4) 74		(5) 19753
	(5) None of these	32.	13 13 65 585 7605 129285 ?
21.	15 12 17 10 ? 8 21 6		(1) 2456415 (2) 2235675
	(1) 3 (2) 7		(3) 2980565 (4) 2714985
	(3) 21 (4) 19		(5) 2197845
	(5) None of these	1	Directions (33-37) : What should come in
22.	4 6 12 30 90 315 ?	-	of question mark (?) in the following number
	(1) 945 (2) 1102 (3) 1260 (4) 1417.5	series	(Andhra Bank PO Exam. 14.09.2008)
	(5) None of these	33.	40280625 732375 16275 46! 18.6
	Directions (16-22) : What should come in	55.	1.24 ?
nlace	of the question mark (?) in the following		(1) 0.248 (2) 0.336
-	per series ?		(3) 0.424 (4) 0.512
	(Bank Of Maharashtra PO		(5) 0.639
	Exam. 29.07.2006)	34.	14 12 21 59 231 1149 ?
23.	1548 516 129 43 ?		(1) 6987 (2) 6787
	(1) 11 (2) 10.75		(3) 6887 (4) 6687
	(3) 9.5 (4) 12		(5) 6587
	(5) None of these	35.	1728 2744 4096 5832 8000 10648
24.	949 189.8 ? 22.776 11.388 6.8328		?
	(1) 48.24 (2) 53.86 (3) 74.26 (4) 56.94		(1) 12167 (2) 13824 (3) 15625 (4) 9261
	(3) 74.26 (4) 56.94 (5) None of these		(3) 15625 (5) 17576
25.	121 144 190 259 ? 466	36.	120 15 105 17.5 87.5 ?
20.	(1) 351 (2) 349	00.	(1) 18.5 (2) 19.5
	(3) 374 (4) 328		(3) 21.875 (4) 17.5
	(5) None of these		(5) 90
26.	14 43.5 264? 76188	37.	3 6 21 28 55 66 ? 120
	(1) 3168 (2) 3176		(1) 103 (2) 104
	(3) 1587 (4) 1590		(3) 108 (4) 106
	(5) None of these		(5) 105
27.	41 164 2624 ? 6045696		Directions (38-42) : In each of the following
	(1) 104244 (2) 94644 (3) 94464 (4) 102444		cions a number se-ries is given which has only rrong number. You have to find out the wrong
	(5) None of these	numl	
	Directions (28-32) : What should come In	mann	(Bank Of Baroda Specialist
place	of question mark (?) in the following number		Officer Exam. 05.10.2008)
series	- ','	38.	7.25 47.5 87.5 157.5 247.5 357.5
	(Indian Overseas Bank		487.5
	PO Exam. 15.06.2008)		(1) 357.5 (2) 87.5
28.	12 12 18 45 180 1170 ?		(3) 157.5 (4) 7.5
	(1) 12285 (2) 10530		(5) 47.5
	(3) 11700 (4) 12870	39.	13 16 21 27 39 52 69
29.	(5) 7605 444 467 513		(1) 21 (2) 39 (3) 27 (4) 52
47.	(1) 950 (2) 904		(3) 27 (5) 16 (4) 52
	(3) 927 (4) 881	40.	1500 1581 1664 1749 1833 1925 2016
	(5) 973		(1) 1581 (2) 1664
30.	1 16 81 256 625 1296 ?		(3) 1833 (4) 1925 (5) 1749
•	(1) 4096 (2) 2401	41.	66 91 120 153 190 233 276

	3	
	(1) 120 (2) 233	(1) 708 (2) 3534
	` '	` '
	(3) 153 (4) 276	` '
	(5) 190	(5) None of these
42.	1331 2197 3375 4914 6859 9261	Directions (53-57) : What should come in
14.		· · · · · · · · · · · · · · · · · · ·
	12167	place of question mark (?) in the following number
	(1) 4914 (2) 6859	series?
	(3) 9261 (4) 2197	(Canara Bank PO Exam. 15.03.2009)
	` '	53. 5 9 18 34 59 95 ?
	(5) 12167	
	Directions (43-47) : What should come in	(1) 272 (2) 168
place	of the question mark (?) in the following	(3) 116 (4) 148
-	per seri 's ?	(5) 144
mann		` '
	(Oriental Bank of Commerce	54. 1200 480 192 76.8 30.72 12.288 ?
	PO Exam. 21.12.2008)	(1) 4.9152 (2) 5.8192
43.	20 24 33 49 74 110 ?	(3) 6.7112 (4) 7.6132
₹3.		
	(1) 133 (2) 147	(5) 8.5172
	(3) 159 (4) 163	55. 963 927 855 747 603 423 ?
	(5) 171	(1) 209 (2) 208
4.4		· , ,
44.	529 841 961 1369 1681 1849 ?	(3) 207 (4) 206
	(1) 2809 (2) 2601	(5) 205
	(3) 3249 (4) 3481	56. 841 961 1089 1225 1369 1521 ?
	()	
	(5) 2209	(1) 1581 (2) 1681
45.	16 24 48 120 360 1260 ?	(3) 1781 (4) 1881
	(1) 3780 (2) 4725	(5) 1981
	(3) 5355 (4) 5040	
	(5) 4410	(1) 16818 (2) 16836
46.	8 31 122 485 1936 7739 ?	(3) 16854 (4) 16872
	(1) 30950 (2) 46430	(5) 16890
	` '	· ,
	(3) 34650 (4) 42850	Directions (58-62) : In the following
	(5) 38540	number series only one number is wrong . Find
47.	499 622 868 1237 1729 2344 ?	out the wrong number.
т,		
	(1) 3205 (2) 3082	(UCO Bank PO Exam. 22.03.2009)
	(3) 2959 (4) 3462	58. 4 6 18 49 201 1011
	(5) 2876	(1) 1011 (2) 201
	Directions (48-52) : In the following	
numb	per series only one number is wrong. Find	(5) None of these
out th	ne wrong number.	59. 48 72 108 162 243 366
	(PNB Agriculture Officer	(1) 72 (2) 108
	Exam. 04.01.2009)	(3) 162 (4) 243
48.	1 4 27 256 3125 46658	(5) None of these
	(1) 46658 (2) 4	60. 2 54 300 1220 3674 7350
	(3) 27 (4) 3125	
	(5) None of these	(3) 300 (4) 54
49.	18000 3600 720 142.2 28.8 5.76	(5) None of these
•	(1) 28.8 (2) 3600	61. 8 27 64 125 218 343
	(3) 5.76 (4) 142.2	(1) 27 (2) 218
	(5) None of these	(3) 125 (4) 343
ΕO	12 237 406 527 604 657	(5) None of these
50.		
	(1) 237 (2) 406	62. 19 68 102 129 145 154
	(3) 527 (4) 657	(1) 154 (2) 129
	(5) None of these	(3) 145 (4) 102
51.	3 35 226 1160 4660 13998	(5) None of these
	(1) 13998 (2) 4660	Directions (63-67) : What should come in
		, , , , , , , , , , , , , , , , , , , ,
		place of the question mark (2) in the following
	(3) 226 (4) 1160	place of the question mark (?) in the following
	(3) 226 (4) 1160 (5) None of these	number series ?
52.	(3) 226 (4) 1160	• • • • • • • • • • • • • • • • • • • •
52.	(3) 226 (4) 1160 (5) None of these	number series ?

63.	0 5 18 43 84 145 ?	75.	9 17 ? 65 129
	(1) 220 (2) 240 (3) 260 (4) 280		(1) 32 (2) 24 (3) 35 (4) 33
	(5) None of these		(5) None of these
64.	10 17 48 165 688 3475 ?	76 .	7 13 ? 49 97
	(1) 27584 (2) 25670		(1) 27 (2) 25
	(3) 21369 (4) 20892		(3) 23 (4) 29
	(5) None of these		(5) None of these
65 .	1 3 24 360 8640 302400 ?	77 .	5 3 6 ? 64.75
	(1) 14525100 (2) 154152000		(1) 15 (2) 15.5
	(3) 14515200 (4) 15425100		(3) 17.5 (4) 17.25
	(5) None of these		(5) None of these
66.	12 14 32 102 416 2090 ?		Directions (78-82) : What will come in
	(1) 15522 (2) 12552		of the question mark (?) in each of the
	(3) 13525 (4) 17552	follow	ving number series?
65	(5) None of these		(PNB Specialist Officer's
67.	10 15 15 12.5 9.375 6.5625 ? (1) 4.375 (2) 3.2375	78 .	Exam. 16.08.200!) 16 8 12 30 ?
	(a) 4.6275 (b) 3.575 (c) 4.3575	10.	(1) 75 (2) 105
	(5) None of these		(3) 95 (4) 115
	Directions (68-72) : What will come in		(5) None of these
place	of the question mark (?) in each of the		(United Bank of India PO
-	ing series?		Exam. 21.06.2009)
68.	17 52 158 477 ? 4310	79 .	5 6 14 45 ?
	(1) 1433 (2) 1432		(1) 138 (2) 154
	(3) 1435 (4) 1434		(3) 118 (4) 184
	(5) None of these		(5) None of these
69 .	3 22 ? 673 2696 8093	80.	7 12 32 105 ?
	(1) 133 (2) 155		(1) 428 (2) 214
	(3) 156 (4) 134		(3) 218 (4) 416
	(5) None of these		(5) None of these
70.	6 13 38 ? 532 2675	81.	11 23 47 95 ?
	(1) 129 (2) 123		(1) 189 (2) 193
	(3) 172 (4) 164		(3) 181 (4) 195
71	(5) None of these 286 142 ? 34 16 7	82.	(5) None of these 9 17 33 65 ?
71.	(1) 66 (2) 72	02.	(1) 113 (2) 131
	(3) 64 (4) 74		(3) 129 (4) 118
	(5) None of these		(5) None of these
72 .	17 9 ? 16.5 35 90		Directions (83-84) : In the following
	(1) 5 (2) 15	numb	per series only one number is wrong. Find
	(3) 10 (4) 20		ne wrong number.
	(5) None of these		(Corporation Bank PO
	Directions (73-77): What will come in place		Exam. 22.11.2009)
	question mark (?) in each of the following	83.	8 11 17 47 128 371 1100
rtamb	er series ?		(1)11 $(2)47$
	(Andhra Bank PO Exam 05.07.2009)		(3) 17 (4) 371
73.	2 8 26 ? 242	0.4	(5) 128
	(1) 78 (2) 72	84.	1 5 13 31 61 125 253
	(3) 82 (4) 84		(1) 1 (2) 5
74.	(5) None of these 3 4 12 ? 196		(3)31 (4)61
<i>i</i> 4.	(1) 45 (2) 40		(5) 125 Directions (85-89) : In the following
	(3) 41 (4) 49	กบทา	per series a wrong number is given. Find out
	(5) None of these		rong number.
	(o) Holle of theor	111C W	

	5	(
	(Indian Bank Rural Marketing		(1) 149 (2) 146
	Officer Exam. 03.01.2010)		(3) 142 (4) 152
85.	150 290 560 1120 2140 4230		(5) None of these
	8400	96.	7 4 5 9 ? 52.5 160.5
	(1) 2140 (2) 560		(1) 32 (2) 16
	(3) 1120 (4) 4230		(3) 14 (4) 20
	(5) 290		(5) None of these
86.	10 8 13 35 135 671 4007	97.	6 42 ? 1260 5040 15120 30240
	(1) 8 (2) 671		(1) 546 (2) 424 (3) 353 (4) 338
	(3) 135 (4) 13		(3) 252 (4) 328 (5) None of these
87.	(5) 35 80 42 24 13.5 8.75 6.375 5.1875	98.	4 10 40 190 940 ? 23440
01.	(1) 8.75 (2) 13.5	90.	(1) 4690 (2) 2930
	(3) 24 (4) 6.375		(3) 5140 (4) 3680
	(5) 42		(5) None of these
88.	125 75 45 25 16.2 9.72 5.832	99.	2 9 30 ? 436 2195 13182
	(1) 25 (2) 45		(1) 216 (2) 105
	(3) 9.72 (4) 16.2		(3) 178 (4) 324
	(5) 75		(5) None of these
89.	29 37 21 43 13 53 5		Directions (100-104) : In each question
	(1) 37 (2) 53		, a number series is given in which one
	(3) 13 (4) 21	numb	per is wrong . Find out the wrong number.
	(5) 43	100	(Allahabad Bank PO Exam. 21.02.2010)
numh	Directions (90-9 4) : I n the following per series only one number is wrong. Find	100.	484 240 120 57 26.5 11.25 3.625 (1) 240 (2) 120
	ne wrong number.		(1) 240 (2) 120 (3) 57 (4) 26.5
out ti	(Indian Bank PO Exam. 17.10.2010)		(5) 11.25
90.	13 25 40 57 79 103 130	101.	3 5 13 43 176 891 5352
	(1) 25 (2) 40		(1) 5 (2) 13
	(3) 57 (4) 79		(3) 43 (4) 176
	(5) None of these		(5) 891
91.	850 600 550 500 475 462.5	102.	6 7 16 41 90 154 292
	456.25		(1) 7 (2) 16
	(1) 600 (2) 550		(3) 41 (4) 90
	(3) 500 (4) 462.5	100	(5) 154
92.	(5) None of these 2 10 18 54 162 486 1458	103.	5 7 16 57 244 1245 7506 (1) 7 (2) 16
94.	(1) 18 (2) 54		(3) 57 (4) 244
	(3) 162 (4) 10		(5) 1245
	(5) None of these	104.	4 2.5 3.5 6.5 15.5 41.25 126.75
93.	8 12 24 46 72 108 152		(1) 2.5 (2) 3.5
	(1) 12 (2) 24		(3) 6.5 (4) 15.5
	(3) 46 (4) 72		(5) 41.25
	(5) None of these		Directions (105-109) : What should come
94.	142 119 100 83 65 59 52	_	ace of the question mark (?) in the following
	(1) 65 (2) 100	numb	per series.
	(3) 59 (4) 119		(Corporation Bank PO
	(5) None of these	105	Exam. 09.05.2010) 325 314 292 259 215 ?
place	Directions (95-99) : What should come in of the question mark in the following number	105.	325 314 292 259 215 ? (1) 126 (2) 116
series	=		(3) 130 (4) 160
301108	(Bank Of India Banking		(5) None of these
	Officer Exam. 24.01.2010)	106.	45 46 70 141 ? 1061.5
	,		(1) 353 (2) 353.5
95.	5 54 90 115 131 140 ?		(3) 352.5 (4) 352
			• •

	6		
107.	620 632 608 644 596?		(3) 486 (4) 1657
	(1) 536 (2) 556		(5) None of these
	(3) 656 (4) 646	119.	656 432 320 264 236 (?)
	(5) None of these	119.	` '
100	• •		
108.	15 25 40 65 ? 195		(3) 232 (4) 223
	(1) 115 (2) 90		(5) None of these
	(3) 105 (4) 120		Directions (120-124) : What will come in
	(5) None of these	place	of the question mark (?) in the following
109.	120 320 ? 2070 5195 13007.5	-	er series?
	(1) 800 (2) 920		(Central Bank Of India
	(3) 850 (4) 900		PO Exam. 25.07.2010)
		120.	· · · · · · · · · · · · · · · · · · ·
	(5) None of these	120.	7 20 46 98 202 (?)
	Directions (110-114): In the following		(1) 420 (2) 410
	er series only one number is wrong. Find		(3) 310 (4) 320
out th	e wrong number.		(5) None of these
	(Punjab & Sind Bank PO	121.	210 209 213 186 202 (?)
	Exam. 16.05.2010)		(1) 138 (2) 77
110.	32 34 37 46 62 87 123		(3) 177 (4) 327
	(1) 34 (2) 37		(5) None of these
	(3) 62 (4) 87	122.	27 38 71 126 203 (?)
	(5) 46	122.	(1) 212 (2) 202
111.	7 18 40 106 183 282 403		(3) 301 (4) 312
	(1) 18 (2) 282		(5) None of these
	(3) 40 (4) 106	123.	435 354 282 219 165 (?)
	(5) 183		(1) 103 (2) 112
112.	850 843 829 808 788 745 703		(3) 120 (4) 130
	(1) 843 (2) 829		(5) None of these
	(3) 808 (4) 788	124.	4 200 369 513 634 (?)
	(5) 745		(1) 788 (2) 715
113.	33 321 465 537 573 590 600		(3) 734 (4) 755
115.	(1) 321 (2) 465		(5) None of these
	(3) 573 (4) 537	1	Directions (125-129) : What will come in
	(5) 590		of the question mark (?) in the following
114.	37 47 52 67 87 112 142	numb	er series ?
	(1) 47 (2) 52		(Syndicate Bank PO Exam. 29.08.2010)
	(3) 67 (4) 87	125.	495 485 465 425 345 ?
	(5) 112		(1) 195 (2) 165
	Directions (115-119): What will come in		(3) 185 (4) 175
place	of the question mark (?) in the following		(5) None of these
-	er series ?	126.	16 22 33 49 70 ?
mamo	(Bank Of Baroda PO Exam. 30.05.2010)	120.	(1) 95 (2) 96
115	· · ·		
115.	` '		(3) 85 (4) 91
	(1) 89 (2) 78	105	(5) None of these
	(3) 102 (4) 69	127.	32 36 52 88 152 ?
	(5) None of these		(1) 266 (2) 232
116.	39 52 78 117 169 (?)		(3) 242 (4) 256
	(1) 246 (2) 182		(5) None of theses
	(3) 234 (4) 256	128.	17 289 425 493 527?
	(5) None of these		(1) 534 (2) 542
117.	62 87 187 412 812 (?)		(3) 544 (4) 594
111.			
	(1) 1012 (2) 1437 (4) 1457	100	(5) None of these
	(3) 1337 (4) 1457	129.	13 27 55 97 153 ?
			111 2713
	(5) None of these		(1) 243 (2) 265
118.	7 8 24 105 361 (?)		(3) 215 (4) 223
118.			` '

	7		(1) 516
	Directions (130-134) : What should come		(1) 716 (2) 788
in place of the question mark (?) in the following			(3) 348 (4) 689
numb	er series ?		(5) 780
	(Punjab National Bank Specialist	141.	
	Officer Exam. 24.10.2010)		73.375
130.	50 60 75 97.5 ? 184.275 267.19875		(1) 2224 (2) 281.5
	(1) 120.50 (2) 130.50		(3) 1114 (4) 556
	(3) 131.625 (4) 124.25		(5) 142.75
	(5) None of these	142.	4.5 16 25 33 38.5 42 43.5
131.	12 15 36 ? 480 2415 14508		(1) 33 (2) 38.5
	(1) 115 (2) 109		(3) 42 (4) 43.5
	(3) 117 (4) 121		(5) 25
	(5) None of these	143.	6 49 305 1545 6196 18603 37218
132.	1 2 6 21 88 445 ?		(1) 6196 (2) 49
	(1) 2230 (2) 2676		(3) 305 (4) 1545
	(3) 2580 (4) 2670		(5) 18603
	(5) None of these	144.	8 5 6.5 11 26 68 207.5
133.	20 21 25 34 50 ? 111		(1) 68 (2) 6.5
	(1) 70 (2) 65		(3) 11 (4) 26
	(3) 60 (4) 75		(5) 207.5
	(5) None of these		Directions (145-149) : What should come
134.	600 125 30 ? 7.2 6.44 6.288	in nlo	ace of the question mark (?) in the following
134.		-	per series?
	(1) 6 (2) 10	numb	
	(3) 15 (4) 12		(PNB Management Trainee
	(5) None of these	145	Exam. 28.11.2010)
.1 1	Directions (135-139) : What will come in	145.	586 587 586 581 570 ? 522
	ace of the question mark (?) in the following		(1) 545 (2) 543 (4) 557
numb	er series ?		(3) 551 (4) 557
40-	(Bank Of India PO Exam. 31.10.2010)		(5) None of these
135.	11 15 31 67 131 (?)	146.	64 54 69 49 74 44 ?
	(1) 233 (2) 221		(1) 89 (2) 69
	(3) 243 (4) 231		(3) 59 (4) 99
	(5) None of these		(5) None of these
136.	483 471 435 375 291 (?)	147.	4000 2008 1012 ? 265 140.5 78.25
	(1) 183 (2) 184		(1) 506 (2) 514
	(3) 185 (4) 186		
			(3) 520 (4) 512
	(5) None of these		(5) None of these
137.	5 7 13 25 45 (?)	148.	(5) None of these 5 5 15 75 ? 4725 51975
137.	5 7 13 25 45 (?) (1) 67 (2) 75	148.	(5) None of these
137.	5 7 13 25 45 (?)	148.	(5) None of these 5 5 15 75 ? 4725 51975
137.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these	148.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520
137. 138.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?)	148. 149.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300
	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these		(5) None of these 5 5 15 75 ? 4725 51975 (1) 520
	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?)		(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585
	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222		(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117
138.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these		(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these
	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?)	149.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in
138.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103	149.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number
138.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115	149.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number ?
138.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115 (5) None of these	149.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number ?? (Bank Of Maharashtra
138. 139.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115 (5) None of these Directions (140-144): In the following	place series	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number ? (Bank Of Maharashtra Exam. 19.12.2010)
138. 139.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115 (5) None of these Directions (140-144): In the following per series only one number is wrong. Find	149.	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number ? (Bank Of Maharashtra Exam. 19.12.2010) 10 14 25 55 140 (?)
138. 139.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115 (5) None of these Directions (140-144): In the following per series only one number is wrong. Find the wrong number.	place series	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number (?) (Bank Of Maharashtra Exam. 19.12.2010) 10 14 25 55 140 (?) (1) 386 (2) 398
138. 139.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115 (5) None of these Directions (140-144): In the following per series only one number is wrong. Find the wrong number. (United Bank Of India	place series	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number ?? (Bank Of Maharashtra Exam. 19.12.2010) 10 14 25 55 140 (?) (1) 386 (2) 398 (3) 388 (4) 396
138. 139.	5 7 13 25 45 (?) (1) 67 (2) 75 (3) 65 (4) 55 (5) None of these 4 11 25 53 109 (?) (1) 221 (2) 234 (3) 212 (4) 222 (5) None of these 15 21 33 51 75 (?) (1) 113 (2) 103 (3) 105 (4) 115 (5) None of these Directions (140-144): In the following per series only one number is wrong. Find the wrong number.	place series	(5) None of these 5 5 15 75 ? 4725 51975 (1) 520 (2) 450 (3) 525 (4) 300 (5) None of these 52 26 26 39 78 ? 585 (1) 195 (2) 156 (3)234 (4)117 (5) None of these Directions (150-154)What will come in of question mark (?) in the following number (?) (Bank Of Maharashtra Exam. 19.12.2010) 10 14 25 55 140 (?) (1) 386 (2) 398

	8	5	
	(1) 289 (2) 290		(5) None of these
	(3) 279 (4) 280	163.	5 12 36 123 ? 2555 15342
	(5) None of these		(1) 508 (2) 381
152.	11 57 149 333 701 (?)		(3) 504 (4) 635
102.	(1) 1447 (2) 1347		(5) None of these
	(3) 1368 (4) 1437	164.	8 11 17 ? 65 165.5 498.5
		104.	
	(5) None of these		(1) 27.5 (2) 32
153.	697 553 453 389 353 (?)		(3) 28 (4) 30.5
	(1) 328 (2) 337		(5) None of these
	(3) 362 (4) 338		Directions (165-169) : What will come in
	(5) None of these	place	of the question mark (?) in the following
154.	336 224 168 140 126 (?)	-	per series?
-0	(1) 119 (2) 118		(Union Bank Of India PO
	, ,		·
	(3) 116 (4) 121	1	Exam. 09.01.2001)
	(5) None of these ,	165.	117 389 525 593 627 (?)
	Directions (155-159) : What will come in		(1) 654 (2) 640
place	of the question mark (?) in the following		(3) 634 (4) 630
numb	per series ?		(5) None of these
	(Oriental Bank Of Commerce PO	166.	7 11 23 51 103 (?)
	Exam. 26.12.2010 (1st Sitting)		(1) 186 (2) 188
155	•		
155.	9 15 27 51 99 ?		(3) 185 (4) 187
	(1) 165 (2) 195		(5) None of these
	(3) 180 (4) 190	167.	18 27 49 84 132 (?)
	(5) None of these		(1) 190 (2) 183
156 .	13 21 36 58 87 ?		(3) 180 (4) 193
	(1) 122 (2) 128		(5) None of these
	(3) 133 (4) 123	168.	33 43 65 99 145 (?)
	* /	100.	(1) 201 (2) 203
157	(5) None of these		
157.	7 9 19 45 95 ?		(3) 205 (4) 211
	(1) 150 (2) 160		(5) None of these
	(3) 145 (4) 177	169.	655 439 314 250 223 (?)
	(5) None of these		(1) 205 (2) 210
158.	14 15 23 32 96 ?		(3) 195 (4) 190
	(1) 121 (2) 124		(5) None of these
	(3) 152 (4) 111		Directions (170-174) : What will come in
	(5) None of these	nlace	of the question mark (?) in the following
159.	20 24 36 56 84 ?		per series?
109.		numo	
	()		(Corporation Bank PO
	(3) 120 (4) 128		Exam. 16.01.2011)
	(5) None of these	170.	15 21 39 77 143 (?)
	Directions (160-164) : What should come		(1) 243 (2) 240
in pla	ce of the question mark (?) In the following		(3) 253 (4) 245
numb	er series ?		(5) None of these
	(Indian Bank PO Exam. 02.01.2011)	171.	33 39 57 87 129 (?)
160.	3 732 1244 1587 1803 1928 ?		(1) 183 (2) 177
	(1) 2144 (2) 1992		(3) 189 (4) 199
	(3) 1955 (4) 2053		(5) None of these
	, ,	170	
161	(5) None of these	172.	15 19 83 119 631 (?)
161.	16 24 ? 210 945 5197.5 33783.75		(1) 731 (2) 693
			(3) 712 (4) 683
	(1) 40 (2) 36		
	(1) 40 (2) 36 (3) 58 (4) 60		(5) None of these
		173.	
162.	(3) 58 (4) 60 (5) None of these	173.	(5) None of these 19 26 40 68 124 (?)
162.	(3) 58 (4) 60 (5) None of these 45030 9000 1795 355 68 ? 1.32	173.	(5) None of these 19 26 40 68 124 (?) (1) 246 (2) 238
162.	(3) 58 (4) 60 (5) None of these 45030 9000 1795 355 68 ? 1.32 (1) 11.6 (2) 12.2	173.	(5) None of these 19 26 40 68 124 (?) (1) 246 (2) 238 (3) 236 (4) 256
162.	(3) 58 (4) 60 (5) None of these 45030 9000 1795 355 68 ? 1.32	173.	(5) None of these 19 26 40 68 124 (?) (1) 246 (2) 238

	9)	
174.	43 69 58 84 73 (?)		Directions (185-189): What will come in
	(1) 62 (2) 98	nlace	of the question mark (?) in the following
	` '	-	• ,
	(3) 109 (4) 63	numb	per series.
	(5) None of these		(Bank Of Baroda PO Exam.13.03.2011)
	Directions (175-179): What should come	185.	1 7 49 343 (?)
in pla	ce of the question mark (?) in the following		(1) 16807 (2) 1227
	per series ?		(3) 2058 (4) 2401
mamo			` '
	(Punjab & Sind Bank PO		(5) None of these
	Exam. 23.01.2011)	186.	13 20 39 78 145 (?)
175.	15 18 16 19 17 20 ?		(1) 234 (2) 244
	(1) 23 (2) 22		(3) 236 (4) 248
	(3) 16 (4) 18		(5) None of these
	* *	107	
	(5) None of these	187.	12 35 81 173 357 (?)
176.	1050 420 168 67.2 26.88 10.752 ?		(1) 725 (2) 715
	(1) 4.3008 (2) 6.5038		(3) 726 (4) 736
	(3) 4.4015 (4) 5.6002		(5) None of these
	(5) None of these	188.	3 100 297 594 991 (?)
177.	0 6 24 60 120 210 ?	100.	(1) 1489 (2) 1479
111.			` ,
	(1) 343 (2) 280		(3) 1478 (4) 1498
	(3) 335 (4) 295		(5) None of these
	(5) None of these	189.	112 119 140 175 224 (?)
178.	32 49 83 151 287 559?		(1) 277 (2) 276
	(1) 1118 (2) 979		(3) 287 (4) 266
			* *
			(5) None of these
	(5) None of these		Directions (190-194) : What will come in
179.	462 552 650 756 870 992 ?	place	of the question mark (?) in the following
	(1) 1040 (2) 1122	numb	per series ?
	(3) 1132 (4) 1050		(Allahabad Bank PO Exam.17.04.2011)
	(5) None of these	190.	958 833 733 658 608 (?)
		170.	(1) 577 (2) 583
	Directions (180-184) : What will come in		
	of the question mark (?) in the following		(3) 567 (4) 573
numb	per series ?		(5) None of these
	(UCO Bank PO Exam. 30.01.2011)	191.	11 10 18 51 200 (?)
180.	28 39 63 102 158 (?)		(1) 885 (2) 1025
	(1) 232 (2) 242		(3) 865 (4) 995
	(3) 233 (4) 244		(5) None of these
		100	
101	(5) None of these	192.	25 48 94 186 370 (?)
181.	7 16 141 190 919 (?)		(1) 738 (2) 744
	(1) 1029 (2) 1019		(3) 746 (4) 724
	(3) 1020 (4) 1030		(5) None of these
	(5) None of these	193.	14 24 43 71 108 (?)
182.	12 17 32 57 92 (?)		(1) 194 (2) 154
102.	(1) 198 (2) 195		* *
	` '		()
	(3) 137 (4) 205		(5) None of these
	(5) None of these	194.	144 173 140 169 136 (?)
183.	19 25 45 87 159 (?)		(1) 157 (2) 148
	(1) 254 (2) 279		(3) 164 (4) 132
	· ·		
	(3) 284 (4) 269		(5) None of these
	(3) 284 (4) 269 (5) None of these		(5) None of these Directions (195-199) : What will come in
184.	(3) 284 (4) 269 (5) None of these 83 124 206 370 698 (?)		(5) None of these Directions (195-199) : What will come in of the question mark (?) in the following
184.	(3) 284 (4) 269 (5) None of these		(5) None of these Directions (195-199) : What will come in
184.	(3) 284 (4) 269 (5) None of these 83 124 206 370 698 (?) (1) 1344 (2) 1324		(5) None of these Directions (195-199): What will come in of the question mark (?) in the following per series ?
184.	(3) 284 (4) 269 (5) None of these 83 124 206 370 698 (?) (1) 1344 (2) 1324 (3) 1364 (4) 1334		(5) None of these Directions (195-199): What will come in of the question mark (?) in the following per series ? (Indian Overseas Bank PO
184.	(3) 284 (4) 269 (5) None of these 83 124 206 370 698 (?) (1) 1344 (2) 1324	numb	(5) None of these Directions (195-199): What will come in of the question mark (?) in the following per series? (Indian Overseas Bank PO Exam. 22.05.2011)
184.	(3) 284 (4) 269 (5) None of these 83 124 206 370 698 (?) (1) 1344 (2) 1324 (3) 1364 (4) 1334		(5) None of these Directions (195-199): What will come in of the question mark (?) in the following per series? (Indian Overseas Bank PO Exam. 22.05.2011) 8 10 18 44 124 (?)
184.	(3) 284 (4) 269 (5) None of these 83 124 206 370 698 (?) (1) 1344 (2) 1324 (3) 1364 (4) 1334	numb	(5) None of these Directions (195-199): What will come in of the question mark (?) in the following per series ? (Indian Overseas Bank PO Exam. 22.05.2011)

1		۱
1	١.	l.

	1	0	
	(3) 354 (4) 356		(3) 4621 (4) 5135
	(5) None of these		(5) 5506
196.	13 25 61 121 205 (?)	206.	6 7 9 13 26 (7 69
	(1) 323 (2) 326		(1) 7 (2) 26
	(3) 324 (4) 313		(3) 69 (4) 37
	(5) None of these		(5) 9
197.	656 352 200 124 86 (?)	207.	1 3 10 36 152 760 4632
	(1) 67 (2) 59		(1) 3 (2) 36
	(3) 62 (4) 57		(3) 4632 (4) 760
	(5) None of these		(5) 152
198.	454 472 445 463 436 (?)	208.	4 5 13 40 105 229 445
	(1) 436 (2) 456		(1) 4 (2) 13
	(3) 454 (4) 434		(3) 105 (4) 445
	(5) None of these		(5) 229
199.	12 18 36 102 360 (?)	209.	157.5 45 15 6 3 2 1
177.	(1) 1364 (2) 1386		(1) 1 (2) 2
	(3) 1384 (4) 1376		(3) 6 (4) 157.5
	(5) None of these		(5) 45
	Directions (200-204) : In the following		Directions (210-215): What will come in
numh	er series only one number is wrong. Find	nlace	of the question mark (?) in the following
	e wrong number.		per series?
out th	(IBPS Bank PO/MT CWE	mann	(IDBI Bank Officer Exam. 16.09.2012)
	Exam. 18.09.2011)	210.	•
200.	7 12 40 222 1742 17390 208608		(1) 1179 (2) 1173
	(1) 222 (2) 12		(3) 1167 (4) 1169
	(3)40 (4) 1742		(5) None of these
	(5) 208608	211.	456.5 407 368.5 341 324.5 ?
201.	6 91 584 2935 11756 35277		(1) 321 (2) 319
	70558		(3) 317 (4) 323
	(1) 6 (2) 70558		(5) None of these
	(3) 584 (4) 2935	212.	23 42.2 80.6 157.4 311 ?
	(5) 35277		(1) 618.2 (2) 623.2
202.	9050 5675 3478 2147 1418 1077		(3) 624.2 (4) 616.6
	950		(5) None of these
	(1) 950 (2) 1418	213.	36 154 232 278 300 ?
	(3) 5675 (4) 2147		(1) 304 (2) 313
	(5) 1077		(3) 308 (4) 307
203.	1 4 25 256 3125 46656		(5) None of these
	823543	214.	24 536 487 703 678 ?
	(1) 4 (2) 823543		(1) 768 (2) 748
	(3) 46656 (4) 25		(3) 764 (4) 742
	(5) 256		(5) None of these
204.	8424 4212 2106 1051 526.5 263.25	215.	224 576 752 840 884 ?
	131.625		(1) 960 (2) 890
	(1) 526.5 (2) 1051		(3) 906 (4) 908
	(3) 4212 (4) 8424		(5) None of these
	(5) 263.25		Directions (216-220): What should come
	Directions (205-209) : In each of these	in pla	ace of the question mark (?) in the following
_	ons a number series is given. In each series	series	
only (one number is wrong. Find out the wrong		(IBPS RRBs Office Assistant CWE
numb			Exam. 09.09.2012)
_	(IBPS Bank PO/MT CWE 17.06.2012)	216.	5 6 16 57 ? 1245
205.	5531 5506 5425 5304 5135 4910		(1) 244 (2) 148
	4621		(3) 296 (4) 271
	(1) 5531 (2) 5425	01-	(5) None of these
		217.	12 ? 168 504 1260 2520

(5) None of these 12 ? 168 504 1260

	(1) 96	(2) 59
	(3) 61	(4) 48
	(5) None of these	. ,
218.	4 9 29 ? 599	3599
	(1) 117	(2) 347
	(3) 258	(4)174
	(5) None of these	
219.	177 170 159 146	5 ? 110
	(1) 132	(2) 106
	(3) 129	(4) 127
	(5) None of these	
220.	2 3 11 38 102 ?	
	(1) 402	(2) 182
	(3) 227	(4) 168
	(5) None of these	
	Directions (221-22	5) What will con

Directions (221-225): What will come in place of the question mark (?) in the following number series?

221.

21

10.5 ?

(Indian Overseas Bank PO Online Exam. 01.09.2013)

15.75 31.5

78.75

221.	21 10.0 : 10.70 01.0	70.	10
	(1) 10.5 (2) 11.5		
	(3) 12.5 (4) 10.25		
	(5) None of these		
222 .	6 19 58 ? 214 331		
	(1) 113 (2) 123		
	(3) 133 (4) 143		
	(5) None of these		
223.	? 16 28 58 114 204		
	(1) 7 (2) 9		
	(3) 14 (4) 6		
	(5) 10		
224.	13. 76 14.91 17.21 20.66	2	31.01
	(1) 25.66 (2) 24.36	•	01.01
	(3) 24.26 (2) 21.36 (4) 25.26		
	(5) 25.36		
225.	15 ? 24 33 97 122		
<i>44</i> 5.			
	(1) 20 (2) 19		
	(3) 17 (4) 18		
	(5) 16		

Directions (226-230): In each of the following number series, a number is **wrong.** Find out that wrong number.

(Corporation Bank Specialist Officer (Marketing) Exam 22.12.2014)

		(marke	:ung)	Exai	11 44.14	4. <i>4</i> 014)	
226.	2	6 15	30	45	43.5	22.5	
	(1) 6				(2) 30		
	(3) 4	5			(4) 15		
	(5) 43	3.5					
227.	950	661	436	269	146	65 16	
	(1) 43	36			(2) 65		
	(3) 2	69			(4) 661		
	(5) 14	46					
228.	6.5	11.8	22.	4	38.3	59.5	87.3
	117.3	8					

	(1) 22.4	1			(2) 5	9.5	
	(3) 11.8	3			$(4) \ 3$	8.3	
	(5)87.3	3					
229.	1 2	4	9	23	69	186	5
	(1) 2				(2) 9)	
	(3) 23				$(4) \ 4$		
	(5)69						
230.	250	239	210	5 1	.81	136	75 4
	(1) 239				$(2)\ 1$	81	
	(3)75				(4) 2	16	

(5) 136

SBI PO EXAMS

Directions (1-5): One number is wrong in each of the number series given in each of the following questions. You have to identify that number and assuming that a new series starts with that number following the same logic as in the given series, which of the numbers given in (1), (2), (3), (4) and (5) given below each series will be the **third** number in the new series?

(SBI Associate Banks PO Exam. 14.02.1999)

1.	3 5	5 12	38	154	1 914	46	34
	(1) 16				(2) 12		
	(3) 18 (5) 14				(4) 33	12	
2.	3 4	10	34	136	685	41	16
	(1) 22 (3) 72 (5) 12	2			(2) 276 (4) 13'		
3.			162	62	143	90	106
	(1) 3 ⁴ (3) 10 (5)38	C			(2) 110 (4) 91	0	
4.	160		120	0	180	1050	4725
	2598 (1) 60 (3) 35 (5) 13) 564			(2) 90 (4) 78	7.5	
5.		7	13	25	47	78	
	(1) 1	1			(2) 13		

Directions (6-8): In each of the following questions, a number **series** is given. After the series, below it, a number alongwith (a), (b), (c), (d) and (e) is given. You have to complete the series following the same sequence as that of the given series. Then answer the question that follows.

(SBI Associate Banks PO Exam. 16.07.2000)

(4) 18

6. 2 3 10 29 172 885 1 (a) (b) (c) (d) (e) What will come in place of (b) ?

(3) 15

(5)20

	2	
(1) 11 (2) 7		2 (a) (b) (c) (d) (e) (f)
(3) 9 (5) Name of the one		What will come in place of (d)?
(5) None of these		(1) 156 (2) 168 (4) 150
7. 5 7 10 36 136 690 2 (a) (b) (c) (d) (e)		(3) 168 (4) 152
	13.	(5) None of these 2 4.5 11 30 93 312 1136
What will come in place of (e)? (1) 310 (2) 330	13.	1 (a) (b) (c) (d) (e) (i)
(3) 110 (4) 64		What will come in place of (b)?
(5) None of these		(1) 6 (2) 81
8. 8 4 6 15 52.5 236.25		(3) 16.75 (4) 18.75
4 (a) (b) (c) (d) (e)		(5) None of these
Which of the following will come in place of	14.	2 14 18 46 82 176 338
(d) ?		4 (a) (b) (c) (d) (e) (i)
(1) 36.25 (2) 33.25		What will come in place of (e)?
(3) 26.75 (4) 32.75		(1) 238 (2) 338
(5) None of these		(3) 218 (4) 318
Directions (9-10) : In each of the following		(5) None of these
questions, a number series is established if the	15.	1 3 7 11 21 43 85
positions of two out of the five marked numbers		4 (a) (b) (c) (d) (e) (f)
are in te rchange d. The posit ion of the first		What will come in place of (f)?
unmarked number remains the same and it is the		(1) 275 (2) 279
beginning of the series. The earlier of the two		(3) 277 (4) 273
marked numbers whose positions are interchanged		(5) None of these
is the answer. For example, if an interchange of		Directions (16-20) : Find out the wrong
number marked '1' and the number marked '4' is	numo	per in the following given sequence. (SBI Associate Banks PO
required to establish the series, your answer is T. If it is not necessary to interchange the position of		Exam. 21.07.2002
the numbers to establish the series, give 5 as your	16.	7 4 6 9 20 52.5 160.5
answer. Remember that when the series is	-0.	(1) 6 (2) 4
established, the numbers change from left to right		(3) 20 (4) 9
(i.e. from the unmarked number to the last marked		(5) 52.5
number) in a specific order.	17.	4 6 12 30 75 315 1260
(SBI Banks PO Exam. 20.08.2000)		(1) 315 (2) 75
9. 40 14 60 24 80 19		(3) 12 (4) 6
(1) (2) (3) (4) (5)		(5) 30
10. 120 15 105 21.875 87.5 17.5	18 .	3 4 13 38 87 166 289
(1) (2) (3) (4) (5)		(1) 38 (2) 13
Directions (11-15) : In each of the following		(3) 87 (4) 166
number-series only one number is wrong. If the	10	(5) 4
wrong number is corrected, the series gets	19.	4 5 9 29 111 556 325
established following a certain logic. Below the series a number is given followed by (a), (b), (c),		(1) 5 (2) 9 (2) 20 (4)111
(d), (e) and (f). You have to complete the series		(3) 29 (5) 556
following the same logic as in the given series after	20.	2 6 16 38 84 176 368
correcting the wrong number, now answer the	20.	(1) 6 (2) 16
following questions giving the correct values for		(3) 38 (4) 84
the letter in the questions.		(5) 176
(SBI Banks PO Exam. 11.02.2001)		Directions (21-26): In each of the following
11. 2 3 2 15 76 254 1434	numb	per series, a wrong number is given. Find out
3 (a) (b) (c) (d) (e) (f)		rong number.
What will come in place of (c)?		(SBI Banks PO Exam. 18.05.2003)
(1) 18 (2) 22	21 .	2 3 6 18 109 194 209952
(3) 24 (4) 21		(1) 3 (2) 6
(5) None of these		(3) 18 (4) 109
12. 1 2 8 33 148 740 4626		(5) 1944
	22.	1 3 6 11 20 39 70

22.

(1) 3 (3) 18 (5) 1944 1 3 6 11 20

<u>39</u>70

	(1)	3				(2)	39		
	(3)	11				(4)	20		
	(5)	6							
23.	2 1	.3	27	1	13	56	1 3	3369	23581
	(1)	13				(2) 2'	7	
	(3)	113				Ì.	4) 5	1	
	(5)	336	9						
24.	50	51	47	56	5 4	42	65	29	
	(1)	51				(2)	47		
	٠,	56					42		
	٠,	65				()			
25.	٠,		23	99	47	79 28	381	20159	
	(1)						23		
	٠,	99				. ,	479)	
	٠,	288	1			()			
26.	2		5	8	13	21	3	4	
	(1)	4				(2)	5		
	(3)						13		
		21				(·)			
	. ,		ons (27 -3	R11 ·	In e	ach .	of the f	ollowing

Directions (27-31): In each of the following questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the given number, following the sequence of original series and answer the questions that follow the series.

(SBI PO Exam. 09.01.2005)

(4) 131

- 27. 3 19 103 439 1381 2887 (c) (d) (a) (b) (e) What will come in place of (b)? (1) 139(2) 163(3) 161(4) 157(5) None of these 28. 4 13 40 135 552 2765 (b) (c) (d) What will come in place of (c)? (1) 123(2) 133
- (3) 127(5) None of these 5 12 4 29. 10
- 3 8 6 (a) (b) (C) (d) (e) What will come in place of (d)? (1) 3 $(2)\ 5$ (4) 7(3) 4
 - (5) None of these
- 30. 3 13 37 87 191 401 1 (a) (b) (c) (d) (e) What will come in place of (d)? (1) 169 (2) 161(3) 171(4) 159
 - (5) None of these
- 31. 4 6 15 52.5 236.25 12 (a) (b) (c) (d) What will come in place of (c)? (1) 18.25(2) 19

- $(3)\ 22.5$ (4) 20.75
- (5) None of these

Directions (32-36): In each of the following questions a number series is given. After the series, a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given following the sequence of the given series. Then answer the question given below it.

(SBI PO Exam. 26.11.2006)

32. 9 19.5 41 84.5 12 (b) (c) (d) (e)

Which of the following numbers will come in place of (c)?

- (1) 111.5
- (2) 118.5
- (3) 108.25
- (4) 106.75
- (5) None of these
- 33. 22 4 5 201 (a) (b) (c) (d) (e)

Which of the following number will come in place of (d)?

- (1)4948
- (2) 4840
- (3) 4048
- (4) 4984
- (5) None of these
- 34. 5 5.25 11.5 36.75

(a) (b) (d) (e) (c)

Which of the following number will come in place of (c)?

- (1) 34.75
- (2) 24.75
- (3) 24.5
- (4) 34.5
- (5) None of these
- 35. 38 19 28.5 71.25

(a) (b) (c) (d)

Which of the following number will come in place of (d)?

- (1) 118.75
- (2) 118.25
- (3) 108.25
- (4) 118.125
- (5) None of these
- 36. 146 65 25 114
 - 39

(a) (b) (c) (d) (e)

Which of the following number will come in place of (e)?

- (1) 122
- (2)119
- (3) 112
- (4)94
- (5) None of these

Directions (37-41): In each of these questions a number series is given. Only one number is wrong in each series. You have to find out the **wrong** number.

(SBI Associate Banks PO Exam. 07,01.2007)

- 37. 10 15 24 35 54 75 100
 - (1) 35
- (2)75
- (3)24
- (4) 15
- (5)54

1

38.	1 3 4 7 11 18 27 47
	(1) 4 (2) 11
	(3) 18 (4) 7
	(5) 27
39.	3 2 3 6 12 37.5 115.5
	(1) 37.5 (2) 3
	(3) 6 (4) 2
	(5) 12
40.	2 8 32 148 765 4626 3243
	(1) 765 (2) 148
	(3) 8 (4) 32
	(5) 4626
41.	2 3 11 38 102 229 443
	(1) 11 (2) 229
	(3) 102 (4) 38
	(5) 3
	D: 44 440 461 TTT 4 1 11

Directions (42-46): What should come in place of the question mark(?) in the following number series?

(SBI PO Preliminary (Tire-I) Exam. 27.04.2008)

			~		,	
42.	7413	7422	7440	5	7503	7548
	(1)740	54		$(2)^{7}$	7456	
	(3) 740	56		(4)	7477	
	(5) No	ne of the	ese			
43.	4 1	5 36	64	100	5	
	(1) 120)		(2) 3	180	
	(3) 130	5		(4)	144	
	(5) No	ne of the	ese			
44.	12 3	3 96	? 85	2 2	2553	
	(1) 28	5		(2) 2	288	
	(3) 250)		(4) 3	384	
	(5) No:	ne of the	ese			

- 45. 70000 14000 2800 ? 112 22.4 (1)640(2) 420 (3)560(4)540
 - (5) None of these
- 46. 102 99 104 97 106? (1)96(2)95(3) 100(4)94(5) None of these

Directions (47-51): What will ome in place of the question mark (?) in the following number series which as only one number wrong by a margin of + 1 or - 1? The first and last number in the series are correct?

(SBI PO Preliminary (Tire-I) Exam. 27.07.2008)

- 47. 121 134 93 95 99 ? 110 (2)96(1) 104(3)82(4) 103(5) None of these
- 48. 12 18 40.5 60.75 26 136.6875 (1) 104.125(2) 121.125
 - (3) 96.125(4)83.125

- (5) None of these
- 49. 4 7 11 18 28 ? 76 12 (1)59(2)38(3)46(4)53
- (5) None of these 50. 3 10 5 172 886 5346
 - 299832 (1)39(2) 27(3)24(4)34
 - (5) None of these
- 51. 15 22 57 183 ? 748 3751 22542 (1)709

3747

- (2)698(3)748(4)800
- (5) None of these

Directions (52-56): In each othe se questions a number series is given. In each series only one number is wrong. Find out the wrong number.

(SBI Associate Banks PO Exam. 07.08.2011)

- **52.** 3601 3602 1803 604 154 36 12 (1) 3602 (2) 1803(3)604(4) 154

 - (5)36
- **53.** 4 12 42 196 1005 6066 42511
 - (1) 12(2)42(3) 1005 (4) 196
- (5) 6066 **54.** 2 8 12 20 30 42 56
 - (1) 8(2) 42 (3) 30(4) 20
 - (5)12
 - 55. 32 16 24 65 210 945 5197.5
 - (1)945(2) 16(4) 210
 - (3)24(5)65
- 56. 49 97 194 385 13 25
 - (2)49(1) 13(3)97(4) 194
 - (5)25

the series.

Directions (57-61): In each of the following questions, a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the 'series starting with the number given, following the sequence of the original series and answer the questions that bllow

(SBI Management Executive Exam. 23.02.2014)

- 57. 37 19 20 31.5 65 165 21 (a) (b) (c) (d) What will come in the place of (e)? (2)41 $(1)\ 105$ (3) 110(4) 108
 - (5) 116

	1	.5	
58.	5 6 16 57 244 1245		(1) 29 (2) 30
	9 (a) (b) (c) (d) (e)		(3) 26 (4) 28
	What will come in the place of (d)?		(5) None of these
		5.	· ·
	(1) 366 (2) 364	5.	
	(3) 368 (4) 378		7 (a) (b) (c) (d) (e)
	(5) 382		What will come in place of (c)?
59 .	7 5 11 49 335 3005		(1) 14 (2) 16
	13 (a) (b) (c) (d) (e)		(3) 9 (4) 11
	What will come in the place of (b)?		(5) None of these
	(1) 31 (2) 27		Directions (6-10) : What should come in
	(3) 29 (4) 28	place	of the question mark (?) in the following
	(5) 30	-	per series ?
60.	12 47 152 467 1412 4247	mann	(RBI Grade-B Officer Exam. 2007)
00.		6.	104 109 99 114 94 9
	(-)	0.	(1) 69 (2) 124
	What will come in the place of (d)?		
	(1) 3131 (2) 1133		(3) 120 (4) 78
	(3) 3311 (4) 3113	_	(5) None of these
	(5) 3123	7.	980 392 156.8 ? 25.088 10.0352
61.	54 50 84 188 496 1456		(1) 65.04 2) 60.28
	42 (a) (b) (c) (d) (e)		(3) 62.72 (4) 63.85
	What will come the in the place of (d)?		(5) None of these
	(1) 304 (2) 286	8.	14 16 35 109 441?
	(3) 293 (4) 281		(1) 2651 (2) 2205
	(5) 301		(3) 2315 (4) 2211
			(5) None of these
	RBI GRADE-B OFFICER EXAMS	9.	1331 2197 4913 6859 ? 24389
			(1) 12167 (2) 13824
guest	Directions (1-5) : In each of the following ions a number series is given. After the series		(3) 9261 (2) 13824 (4) 15625
-	<u> </u>		
	aber is given followed by (a), (b) (c), (d) and	10	(5) None of these
. ,	ou have to complete the series starting with	10.	3600 725 150 35 12 ?
	umber given, following the sequence of the		(1) 8 (2) 7.4
orıgın	al series and answer the questions that follow		(3) 10.5 (4) 10
the se	ries.		(5) None of these
	(RBI Grade-B Officer Exam.17.11.2002)		Directions (11-15) : What should come in
1.	5 6 16 57 244 1245	-	of quesbon mark (?) in the following number
	2 (a) (b) (c) (d) (e) What	series	
	will come in place of (d)? (1)		(RBI Grade-B Officer Exam. 2008)
	46 (2) 39	11.	13 14 30 93 376 1885 ?
	(3) 156 (4) 172		(1) 10818 (2) 10316
	(5) None of these		(3) 11316 (4) 11318
2.	3 5 9 17 33 65		(5) None of these
	7 (a) (b) (c) (d) (e)	12.	4 6 9 13.5 20.25 30.375
	What will come in place of (d)		(1) 40.25 (2) 45.5625
	= ` ` '		(3) 42.7525 (4) 48.5625
			(5) None of these
		13.	400 240 144 86.4 51.84 31.104
• = 4	(5) None of these	13.	7
3. 7 4	5 9 20 52.5		•
	3 (a) (b) (c) (d) (e)		(1) 19.2466 (2) 17.2244
	What will come in place of (c)?		(3) 16.8824 (4) 18.6625
	(1) 4.5 (2) 2		(5) None of these
	(3) 6 (4) 7	14.	9 4.5 4.5 6.75 13.5 33.75 ?
	(5) None of these		(1) 101.25 (2) 103.75
4.	3 10 32 111 460 2315		(3) 99.75 (4) 105.50
	2 (a) (b) (c) (d) (e)		(5) None of these
	What will come in place of (b) ?	15.	705 728 774 843 935 1050 ?
		- •	

	(1) 1190 (2) 1180		(3) 412 (4) 2075
	(3) 1185 (4) 1187		(5) 12460
	(5) None of these	24.	144 215 540 1890 8505 46777.5
	Directions (16-20) : In each of these		304053.75
-	ions a number series is given. Below the		(1) 215 (2) 540
	one number is given followed by (a), (b), (c),		(3) 1890 (4) 8505
	d (e) You have to complete this series		(5) 46777.5
	ing the same logic as in the original series	25.	2222 1879 1663 1538 1474 1447
and a	nswer the question that tollows.		1440
1.0	(RBI Grade-B Officer Exam.11.10.2009)		(1) 1879 (2) 1538
16.	5 9 25 91 414 2282 5		(3) 1474 (4) 1447
	3 (a) (b) (c) (d) (e)		(5) 1440
	What will come in place of (c)?	1 000	Directions (26 - 30) : What will come in
	(1) 63.25 (2) 63.75 (3) 64.25 (4) 64.75	-	of the question mark (?) in the following per series ?
	(5) None of these	Hullio	(RBI Grade 'B' Officer's
17.	15 9 8 12 36 170		Exam. 18.12.2011)
	19 (a) (b) (C) (d) (e)	26.	9 31 73 141 (?)
	What will come in place of (b)?	_0.	(1) 164 (2) 280
	(1) 18 (2) 16		(3) 239 (4) 241
	(3) 22 (4) 24		(5) None of these
	(5) None of these	27.	35 256 451 620 763 (?)
18.	7 6 10 27 104 515		(1) 680 (2) 893
	9 (a) (b) (c) (d) (e)		(3) 633 (4) 880
	What will come in place ((d)?		(5) None of these
	(1) 152 (2) 156	28.	130 139 155 180 216 (?)
	(3)108 (4)112		(1) 260 (2) 290
10	(5) None of these		(3) 265 (4) 996
19.	6 16 57 244 1245 7506	29.	(5) None of these 2890 (?) 1162 874 730 658
	4 (a) (b) (c) (d) (e) What will come in place of (d)?	49.	2890 (?) 1162 874 730 658 (1) 1684 (2) 1738
	(1) 985 (2) 980		(3) 1784 (4) 1672
	(3) 1004 (4) 1015		(5) None of these
	(5) None of these	30.	14 1004 1202 1251.5 1268 (?)
20.	8 9 20 63 256 1285		()
20.			\'
20.	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e)		(1) 1267.5 (2) 1276.25
20.	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895		(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35) : What will come in
20.	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845	place	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35) : What will come in of the question mark (?) in the following
20.	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these	place	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35) : What will come in of the question mark (?) in the following per series?
	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5) : I n the following	place	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online
numb	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5) : I n the following per series only one number is wrong. Find	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35) : What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013
numb	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5) : I n the following per series only one number is wrong. Find the wrong number.	place	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35) : What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ?
numb out th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5) : I n the following per series only one number is wrong . Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1)	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890
numb	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5) : I n the following per series only one number is wrong . Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908
numb out th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following per series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these
numb out th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5) : I n the following per series only one number is wrong . Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these
numb out th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following per series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5 (3) 8.5 (4) 20 (5) 53 12000 2395 472 89.8 12.96	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these 55 66.15 88.45 121.9 166.5 ?
numbout th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following per series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.2011) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5 (3) 8.5 (4) 20 (5) 53 12000 2395 472 89.8 12.96 - 2.408 -5.4816	place numb 31. 32.	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these 55 66.15 88.45 121.9 166.5 ? (1) 212.25 (2) 322.25 (3) 224.25 (4) 222.25 (5) None of these
numbout th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following per series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5 (3) 8.5 (4) 20 (5) 53 12000 2395 472 89.8 12.96 - 2.408 -5.4816 (1) -5.4816 (2) 472	place numb	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these 55 66.15 88.45 121.9 166.5 ? (1) 212.25 (2) 322.25 (3) 224.25 (4) 222.25 (5) None of these 36 49 75 88 114 (?)
numbout th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following per series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5 (3) 8.5 (4) 20 (5) 53 12000 2395 472 89.8 12.96 - 2.408 -5.4816 (1) -5.4816 (2) 472 (3) 12.96 (4) - 2.408	place numb 31. 32.	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these 55 66.15 88.45 121.9 166.5 ? (1) 212.25 (2) 322.25 (3) 224.25 (4) 222.25 (5) None of these 36 49 75 88 114 (?) (1) 130 (2) 140
numbout th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following er series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5 (3) 8.5 (4) 20 (5) 53 12000 2395 472 89.8 12.96 - 2.408 -5.4816 (1) -5.4816 (2) 472 (3) 12.96 (4) - 2.408 (5) 2395	place numb 31. 32.	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these 55 66.15 88.45 121.9 166.5 ? (1) 212.25 (2) 322.25 (3) 224.25 (4) 222.25 (5) None of these 36 49 75 88 114 (?) (1) 130 (2) 140 (3) 132 (4) 128
numbout th	8 9 20 63 256 1285 5 (a) (b) (c) (d) (e) What will come in place of (e) (1) 945 (2) 895 (3) 925 (4) 845 (5) None of these Directions (21-2 5): I n the following per series only one number is wrong. Find the wrong number. (RBI Grade-B Officer Exam.06.02.201 1) 4 3 4.5 8.5 20 53 162.5 (1) 3 (2) 4.5 (3) 8.5 (4) 20 (5) 53 12000 2395 472 89.8 12.96 - 2.408 -5.4816 (1) -5.4816 (2) 472 (3) 12.96 (4) - 2.408	place numb 31. 32.	(1) 1267.5 (2) 1276.25 (3) 1324.5 (4) 1367.25 (5) None of these Directions (31-35): What will come in of the question mark (?) in the following per series? (RBI Officer Grade 'B' Online Exam. 25.08.2013 224 576 752 840 884 ? (1) 960 (2) 890 (3) 906 (4) 908 (5) None of these 55 66.15 88.45 121.9 166.5 ? (1) 212.25 (2) 322.25 (3) 224.25 (4) 222.25 (5) None of these 36 49 75 88 114 (?) (1) 130 (2) 140

INSURANCE EXAMS

- 1. What will come in place of the question mark (?) in the following series? 3 7 18 26 ? 53 64 96
 - (1) 34
- (2) 37
- (3) 32
- (4) 38

(United India Insurance Co. AAO Exam. 21.04.2002)

- 2. What will come in place of the question mark (?) in the following series? 1.7 3.2 2.7 4.2 3.7 ? 4.7 6.2
 - (1) 6.2
- (2) 5.5
- (3) 5.2
- (4) 4.3

(United India Insurance Co. AAO Exam. 21.04.2002)

Directions (3-7): In each of the following questions, a number series in given. Only one number is wrong in this series. Find out that **wrong** number, and taking this wrong number as the first term of the second series formed following the same logic, find out the fourth term of the second series.

(LIC Assistant Administrative Officer (AAO) Exam. 24.04.2008)

- 6 12 3. 28 90
 - (1) 18
- (2) 42
- (3)21
- (4)24
- (5) None of these
- 24.5 4. 17 17.25 18.25 20.75 30.75
 - (1) 23.25
- (2) 24.25
- (3) 24,5
- (4) 24,75
- (5) None of these
- 5. 438 487 447 476 460 469
 - (1)485
- (2)425
- (3)475
- (4)496
- (5) None of these

- 2 7 18 45 6. 99 209 431
 - (1) 172
- (2) 171
- (3) 174
- (4) 175
- (5) None of these
- 7. 8 10 42 146 770
 - (1)868
- (2)8872

4578

- (3)858
- (4)882
- (5) None of these

Directions (8-12): Find out the wrong number in the following given sequence.

(LIC Assistant Administrative Officer (AAO) Exam. 2006)

- 8. 7 4 6 9 20 52.5 160.5 (1) 6(2) 4
 - (3) 20
- (5) 52.5

- 9. 46 12
- 30 75 315
- (4)9

1260

- (1) 315(2)75(3) 12(4) 6
- (5)30
- 10. 3 4 13 38 87 166 289 (2) 13
 - (1) 38(3)87
- (4) 166

- (5) 4
- 11. 4 5 9 29 111 556 3325
 - (1) 5
- (2)9(4) 111
- (3)29(5)556

- 2 6 16 38 84 176 368
 - (1) 6

12.

- (2) 16
- (3) 38
- (4)84
- (5)176

Directions (13 - 17): What should come in place of the question mark (?) in the following number series?

(New India Assurance AO Exam. 25.10.2009)

- 52 88 113 129 ? 13. 3
 - (1) 128
- (2) 142
- (3) 133
- (4) 145
- (5) None of these
- 14. 2 3 8 ? 112 565
 - (1) 36
- (2) 14(4) 45
- (3)27(5) None of these
- 15. 6 4 8 23 ? 385.25
 - (1)84.5
- (2)73
- (3) 78.5
- (4)82? 1728
- (5) None of these
- 18. 8 84 216 512
 - (1)729
- (2) 1331
- (3)684
- (4) 1000
- (5) None of these
- 17. 11 32 108 444?
 - $(1)\ 1780$
- (2) 2230
- (3) 1784
- (4) 2225
- (5) None of these
- If $S = 1^2 2^2 + 3^2 4^2 + \dots + 199^2 200^2$, then 18. the value of S is
 - (1) 19900 (3) - 20100
- $(2)\ 20100$ (4) - 19900
- (New India Assurance AO Exam. 25.10.2009)
- 19. Theexpression 4 + 36 + 144 + 5184 +

19

- 8100 is equal to
- (2) 0.95
- (3) 0.99
- (4) 1.91

1	Directions (20- 24): What will come in	28.	1050 510 242 106 46 163
-	of the question mark (?) in the following		(1) 3 (2) 106
num	per series ?		(3) 242 (4) 510
	(United India Insurance AO	20	(5) None of these
	Exam. 27.03.2011)	29.	550 546 537 521 494 460 411
20.	8 14 32 70 136 (?)		(1) 494 (2) 546
	(1) 248 (2) 247		(3) 521 (4) 460
	(3) 237 (4) 238		(5) None of these
	(5) None of these	30.	8 21 47 86 140 203 281
21.	25 41 89 169 281 (?)		(1) 47 (2) 86
	(1) 425 (2) 415		(3) 140 (4) 203
	(3) 409 (4) 419		(5) None of these
	(5) None of these	31.	4 24 161 965 4795 19176 57525
22.	461 474 465 478 469 (?)	0_1.	(1) 161 (2) 965
22.	(1) 460 (2) 482		(3) 57525 (4) 19176
	, ,		, ,
	(3) 456 (5) November 41, 200	20	(5) None of these
	(5) None of these	32.	1 2 8 24 120 720 5040
23.	980 516 284 168 110 (?)		(1)120 (2) 24
	(1)73 (2)71		(3) 8 (4) 720
	(3) 83 (4) 91		(5) None of these
	(5) None of these		Directions (33-38): What should come in
24.	4 4 10 34 94 (?)	place	of the question mark (?) in the following
	(1) 230 (2) 214	numl	per series ?
	(3) 220 (4) 209		(United India Insurance AO
	(5) None of these		Exam. 26.05.2013
25.	The sum 1 + 3 - 5 + 7 + 9 - 11 + 13 + 15 - 17	33.	1548 516 129 43 ?
	++ 61 + 63 - 65 is equal to		(1) 11 (2) 10.75
	(1) 319 (2) 330		(3) 9.5 (4) 12
	(3) 341 (4) 451		(5) None of these
	(New India Insurance	34.	949 189.8 ? 22.776 11.388 6.8328
	AAO Exam. 22.05.2011)	•	(1) 48.24 (2) 53.86
	1 1 1 1 1 1 1 1 1		(3) 74.26 (4) 56.94
			(5) None of these
26.	If $x = 2 + 6 + 12 + 20 + 30 + 42 + 56 + 63$	35.	121 144 190 259 ? 466
	1	35.	
			(1) 351 (2) 349 (3) 374 (4) 308
	then value of $_{\chi}$ is closest to		(3) 374 (4) 328
	(1) 1.1 (2) 1	26	(5) None of these
	(3) 0.9 (4) 0.8	36.	14 43.5 264 ? 76188
	(Ntw India Insurance AAO		(1) 3168 (2) 3176
	Exam. 22.05.2011)		(3) 1587 (4) 1590
	(1)(1)(1)	27	(5) None of these
		37.	41 164 2624 ? 6045696
			1 44
			(1) 042 (2) 94644
27.	If $\begin{vmatrix} 1 - \frac{1}{2^2} \end{vmatrix} \begin{vmatrix} 1 - \frac{1}{3^2} \end{vmatrix} \begin{vmatrix} 1 - \frac{1}{4^2} \end{vmatrix} \cdots \begin{vmatrix} 1 - \frac{1}{2011^2} \end{vmatrix} =$		(2) 0.4464
21.	$\frac{1}{1}$ $\frac{1}{2^2}$ $\frac{1}{1}$ $\frac{3^2}{1}$ $\frac{4^2}{1}$ $\frac{2011^2}{1}$		(3) 94464 (4) 102444
	v		(5) None of these
	X	38.	Find the missing number in the series :
	2×2011 then the value of x is		2, 5, 9, ?, 20, 27
	$(\bar{1}) \bar{1}$ (2) 2010		(1) 14 (2)16
	(3) 2011 (4) 2012		(3)18 (4)24
	(United India Insurance AAO		(NICL (GIC) Administrative
	Exam. 03.06.2012)		Officer Exam. 15.1.2.2013)
	Directions (28 - 32): Find the wrong		,
numl	per in the following number series .		
	(LIC Assistant Administrative Officer		
	(AAO) Evam 12 05 2013)		

(AAO) Exam. 12.05.2013)

		SHORT ANSWERS	105. 107.	(4) (3)	106. (2) 108. (5)
		NATIONALISED BANKS	109.	(5)	110. (1)
_		& IBPS PO/MT/SO	111.	(3)	112. (4)
1.	(4)	2. (1)	113.	(5)	114. (1)
3.	(4)	4. (3)	115.	(2)	116. (3)
5. 7	(2)	6. (3)	117.	(2)	118. (1)
7 .	(5)	8. (2)	119.	(1)	120. (2)
9. 11.	(1)	10. (4) 12. (5)	121.	(2)	122. (5)
11. 13.	(3) (2)	12. (3) 14. (1)	123.	(3)	124. (3)
15. 15.	(4)	16. (1)	125.	(3)	126. (2)
17.	(5)	18. (1)	127.	(5)	128. (3)
19.	(1)	20. (2)	129.	(4)	130. (3)
21.	(4)	22. (3)	131.	(3)	132. (2)
23.	(2)	24. (4)	133.	(4)	134. (5)
25.	(1)	26. (5)	135.	(4)	136. (1)
27.	(3)	28. (1)	137.	(2)	138. (1)
29.	(3)	30. (2)	139.	(3)	140. (1)
31.	(5)	32. (4)	141.	(4)	142. (5)
33.	(1)	34. (3)	143.	(3)	144. (3)
35.	(2)	36. (3)	145.	(3)	146. (5)
37 .	(5)	38. (5)	147.	(2)	148. (3)
39.	(3)	40. (3)	149.	(1)	150. (3)
41.	(2)	42. (1)	151. 153.	(5)	152. (4) 154. (1)
43.	(3)	44. (5)	155. 155.	(2) (2)	154. (1) 156. (4)
45 .	(4)	46. (1)	155. 157.	(4)	158. (4)
47.	(2)	48. (1)	157.	(3)	160. (1)
49.	(4)	50. (5)	161.	(4)	162. (1)
51.	(3)	52. (2)	163.	(1)	164. (4)
53.	(5)	54. (1)	165.	(5)	166. (4)
55. 57.	(3)	56. (2) 58. (3)	167.	(4)	168. (2)
57. 59.	(4) (5)	60. (1)	169.	(5)	170. (4)
61.	(2)	62. (4)	171.	(1)	172. (1)
63.	(5)	64. (4)	173.	(3)	174. (5)
65.	(3)	66. (2)	175.	(4)	176. (1)
67.	(1)	68. (3)	177.	(5)	178. (3)
69.	(4)	70. (1)	179.	(2)	180. (3)
71.	(5)	72. (3)	181.	(5)	182. (3)
73 .	(5)	74. (1)	183.	(4)	184. (5)
75.	(4)	76. (2)	185.	(4)	186. (4)
77.	(3)	78. (2)	187.	(1)	188. (5)
79 .	(4)	80. (1)	189. 191.	(3)	190. (2)
81.	(5)	82. (3)	191.	(4) (2)	192. (1) 194. (5)
83.	(3)	84. (3)	195. 195.	(2)	194. (3) 196. (4)
85.	(3)	86. (2)	197.	(1)	198. (3)
87.	(3)	88. (1)	199.	(2)	200. (4)
89.	(5)	90. (3)	201.	(3)	202. (5)
91.	(1)	92. (4)	203.	(4)	204. (2)
93.	(3)	94. (1)	205.	(1)	206. (2)
95. 97	(5)	96. (4)	207.	(4)	208. (3)
97. 99.	(3)	98. (1) 100. (2)	209.	(1)	210. (2)
99. 101.	(2) (4)	100. (2) 102. (5)	211.	(2)	212. (1)
101.	(1)	102. (3) 104. (3)	213.	(5)	214. (4)
_00.	(-)	(0)			

	(0)	016 (1)		(5)	
215.	` '	216. (1)	61.	(5)	
217.	` '	218. (5)		DDI ODA	DE DOEBIOED EVANO
219.	, ,	220. (3)			DE-B OFFICER EXAMS
221.	` '	222. (2)	1.	(4)	2. (5)
223.	` '	224. (4)	3.	(3)	4. (2)
225.	` '	226. (5)	5.	(1)	6. (5)
227.	` '	228. (5)	7.	(3)	8. (4)
229.	(5)	230. (5)	9.	(1)	10. (2)
		SBI PO EXAMS	11. 13.	(3) (4)	12. (2) 14. (1)
	(2)		15.	(5)	* *
1. 3.	(3)	2. (3)	15. 17.		16. (4)
3. 5.	(4)	4. (5)	17. 19.	(2) (5)	18. (1) 20. (3)
7.	(1)	6. (4)	21.	(3)	20. (3) 22. (2)
7. 9.	(2)	8. (5)	21. 23.	(5) (5)	22. (2) 24. (1)
9. 11.	(3) (4)	10. (3) 12. (5)	25. 25.	(5)	26. (4)
13.	(1) (5)	12. (3) 14. (1)	23. 27.	(4)	28. (3)
15. 15.	(3)	16. (1)	27. 29.	(2)	30. (2)
17.	(2)	18. (1) 18. (4)	31.	(3)	32. (4)
19.	(3)	20. (5)	33.	(5)	52. (1)
12.	(3)	20. (3)	.	(0)	
		22 (2)			
21. 23.	(4) (1)	22. (2) 24. (4)		INSU	RANCE EXAMS
21. 23.	(4) (1)	24. (4)	1.		
21. 23. 25.	(4) (1) (3)	24. (4) 26. (1)	1. 3.	(2)	2. (3)
21. 23.	(4) (1) (3) (2)	24. (4) 26. (1) 28. (1)	1. 3. 5.	(2) (3)	2. (3) 4. (2)
21. 23. 25. 27.	(4) (1) (3) (2) (3)	24. (4) 26. (1) 28. (1) 30. (4)	3.	(2) (3) (1)	2. (3) 4. (2) 6. (5)
21. 23. 25. 27. 29.	(4) (1) (3) (2)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3)	3. 5.	(2) (3) (1) (4)	2. (3) 4. (2)
21. 23. 25. 27. 29.	(4) (1) (3) (2) (3) (3)	24. (4) 26. (1) 28. (1) 30. (4)	3. 5. 7.	(2) (3) (1)	2. (3) 4. (2) 6. (5) 8. (1)
21. 23. 25. 27. 29. 31.	(4) (1) (3) (2) (3) (3) (1)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5)	3. 5. 7. 9.	(2) (3) (1) (4) (2)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4)
21. 23. 25. 27. 29. 31. 33. 35. 37.	(4) (1) (3) (2) (3) (3) (1) (4)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4)	3. 5. 7. 9. 11. 13. 15.	(2) (3) (1) (4) (2) (3) (5) (1)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39.	(4) (1) (3) (2) (3) (3) (1) (4) (1)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5)	3. 5. 7. 9. 11. 13. 15.	(2) (3) (1) (4) (2) (3) (5) (1) (2)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1)	3. 5. 7. 9. 11. 13. 15. 17.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2)	3. 5. 7. 9. 11. 13. 15. 17. 19.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4) (5)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5) 50. (1)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5) (1)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5) 26. (1)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4) (5) (3)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5) 50. (1) 52. (4)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5) (1) (4)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5) 26. (1) 28. (2)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47. 49. 51.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4) (5) (3) (2)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5) 50. (1) 52. (4) 54. (1)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5) (1) (4) (1)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5) 26. (1) 28. (2) 30. (3)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47. 49. 51. 53.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4) (5) (3) (2) (3)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5) 50. (1) 52. (4) 54. (1) 56. (4)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27. 29.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5) (1) (4) (1) (2)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5) 26. (1) 28. (2) 30. (3) 32. (3)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47. 49. 51. 53. 55.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4) (5) (3) (2) (3) (1)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5) 50. (1) 52. (4) 54. (1) 56. (4) 58. (2)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27. 29. 31.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5) (1) (4) (1) (2) (2)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5) 26. (1) 28. (2) 30. (3) 32. (3) 34. (4)
21. 23. 25. 27. 29. 31. 33. 35. 37. 39. 41. 43. 45. 47. 49. 51. 53.	(4) (1) (3) (2) (3) (3) (1) (4) (1) (4) (2) (4) (3) (4) (5) (3) (2) (3)	24. (4) 26. (1) 28. (1) 30. (4) 32. (3) 34. (2) 36. (3) 38. (5) 40. (4) 42. (5) 44. (1) 46. (2) 48. (5) 50. (1) 52. (4) 54. (1) 56. (4)	3. 5. 7. 9. 11. 13. 15. 17. 19. 21. 23. 25. 27. 29.	(2) (3) (1) (4) (2) (3) (5) (1) (2) (3) (1) (5) (1) (4) (1) (2)	2. (3) 4. (2) 6. (5) 8. (1) 10. (4) 12. (5) 14. (3) 16. (4) 18. (3) 20. (4) 22. (2) 24. (5) 26. (1) 28. (2) 30. (3) 32. (3)

EXPLANATIONS NATIONALISED BANKS & IBPS PO/MT/SO

1. (4) The series is based on the following pattern:

 $11 = 2 \times 3 + 5$

 $38 = 11 \times 4 - 6$

 $197 = 38 \times 5 + 7$

 $1172 \neq 197 \times 6 - 8$

- \therefore **1172** is wong and it should be replaced by $197 \times 6 8 = 1174$
- 2. (1) The series is based on the following pattern:

 $107 - 71 = 36 = 6^2$

 $71 - 46 = 25 = 5^2$

 $46 - 30 = 16 = 4^2$

 $30 - 21 = 9 = 3^2$

 $21 - 19 = 2 \neq 2^2$

- \therefore **19** I should be replaced by 17 for which $21 17 = 2^2$
- 3. (4) The series is based on the following pattern:

16 = 9 + 7

25 = 16 + 9

41 = 25 + 16

68 ≠ 41 + 25

4. (3) The series is based on the following pattern:

Obviously, 3.5 Is the wrong number which should be replaced by 3.

5. (2) The series is based on the following pattern:

Obviously, 1.75 is the wrong number which should be replaced by 1.5.

6. (3) The given series is based on the following pattern:

Hence, 308 will come in place of question mark.

7. (5) The given series is based on the following pattern:

Hence, 10 will come in place of question mark.

8. (2) The given series is based on the following pattern:

 $5 \times 1 + (1)^2 = 6$

 $6 \times 2 + (2)^2 = 16$

 $16 \times 3 + (3)^2 = 57$ $57 \times 4 + (4)^2 = 244$

Hence, 16 will come in place of question mark.

9. (1) The given series is based on the following patterns.

Hence, 34 will come in place of question mark.

10. (4) The given series is based on the following pattern:

 $5 \times 2 + 1 = 11$

 $11 \times 2 + 3 = 25$

 $25 \times 2 + 5 = 55$

 $55 \times 2 + 7 = 117$

11. (3) The given series is based on the following pattern:

 $30 = 12 \times 6 - 7 \times 6$

 $120 = 30 \times 5 - 6 \times 5$

 $460 = 120 \times 4 - 5 \times 4$

 $1368 = 460 \times 3 - 4 \times 3$

 $2730 = 1368 \times 2 - 3 \times 2$

Similarly,

(a) = $16 \times 6 - 7 \times 6 = 96 - 42 = 54$

(b) = $54 \times 5 - 6 \times 5 = 240$

(c) = $240 \times 4 - 5 \times 4 = 940$

(d) = $940 \times 3 - 4 \times 3 = 2808$

Hence, 2808 will come in place of (d).

12. (5) The given series is based on the following pattern:

Similarly,

Hence, 1863 will come in place of (e).

13. (2) The given series is based on the following pattern:

Similarly,

- Hence, 14514.5 will come in place of (c).
- 14. (1) The given series is based on the following pattern:
- Hence, 81 will come in place of the question mark.
- 21. (4) The given series is based on the following pattern:

Similarly,

Hence, 19 will come in place of the question mark.
(3) The given series is based on the following

- Hence, 284 will come in place of(d).
- 15. (4) The given series is based on the following pattern:

Similarly,

Hence, 1260 will come in place of the question mark.

23. (2) The given number series is based on the following pattern:

22.

pattern:

Hence, **97.5** will come in place of (c).

16. (1) The given series is based on the following pattern:

Hence, 8 will come in place of the question mark.

17. (5) The given series is based on the following pattern:

$$25 = 5^{2}$$
 $16 = 4^{2}$
? = $3^{2} = 9$ $4 = 2^{2}$ and $1 = 1^{2}$

Hence, 9 will come in place of the question mark,

18. (1) The given series Is based on the following pattern:

$$1 \times 2 + 2 \times 2 = 6$$

 $6 \times 4 + 4 \times 3 = 36$
 $36 \times 6 + 6 \times 4 = 240$
 $240 \times 8 + 8 \times 5 = 1960$
 $1960 \times 10 + 10 \times 6 =$ **19660**

Hence, 19660 will come in place of the quesdon mark.

19. (1) The given series is based on the following pattern:

Hence, 14 will come in place of the question mark.

20. (2) The given series is based on the following pattern:

$$2 + 5 = 7$$
 $7 + 5 = 12$
 $12 + 7 = 19$ $19 + 12 = 31$
 $31 + 19 = 50$ $50 + 31 = 81$

- Hence, 10.75 will replace the quesdon mark.
- 24. (4) The given number series is based on the following pattern:

Hence, 56.94 will replace the question mark.

25. (1) The given number series is based on the following pattern:

$$121 + 23 \times 1 = 144$$

 $144 + 23 \times 2 = 190$
 $190 + 23 \times 3 = 259$
 $\therefore ? = 259 + 23 \times 4$
 $= 259 + 92 = 351$

- Hence, **351** will replace the question mark. (5) The given number series is based on the
 - (5) The given number series is based on the following pattern:

$$14 \times 3 + 1.5 = 43.5$$

 $43.5 \times 6 + 1.5 \times 2 = 264$
 $264 \times 12 + 1.5 \times 4 = 3174$
 $3174 \times 24 + 1.5 \times 8 = 76188$

- Hence, 3174 will replace the question mark.
- 27. (3) The given number series is based on the following pattern:

1010wing pattern:

$$41 \times 2^2 = 164$$

 $164 \times 4^2 = 2624$
 $2624 \times 6^2 =$ **94464**
94464 × 8² = 6045696

Hence, 94464 will replace the question mark.

28. (1) The given number series is based on the following pattern:

$$12 \times 1 = 12$$

 $12 \times 1.5 = 18$

$$18 \times (1 + 1.5) = 18 \times 2.5 = 45$$

 $45 \times (1.5 + 2.5) = 45 \times 4 = 180$
 $180 \times (4 + 2.5) = 180 \times 6.5 = 1170$
 $\therefore ? = 1170 \times (4 + 6.5) = 12285$

Hence, 12285 will replace the quesdon mark.

29. (3) The given number series is based on the following pattern:

$$467 - 444 = 23 = 23 \times 1$$

 $513 - 467 = 46 = 23 \times 2$
 $582 - 513 = 69 = 23 \times 3$
 $674 - 582 = 92 = 23 \times 4$
 $789 - 674 = 115 = 23 \times 5$
 $\therefore ? = 789 + 23 \times 6$
 $= 789 + 138 = 927$

Hence, 927 will replace the question mark.

30. (2) The given number series is based on the following pattern :

$$1 = 1^4$$
; $16 = 2^4$; $81 = 3^4$; $256 = 4^4$; $625 = 5^4$; $1296 = 6^4$; \therefore ? = $7^4 = 7 \times 7 \times 7 \times 7$

= 2401

Hence, 2401 will replace the question mark.

31. (5) The given number series is based on the following pattern:

$$23 \times 1 + 2 = 25$$

 $25 \times 2 + 3 = 53$
 $53 \times 3 + 4 = 163$
 $163 \times 4 + 5 = 657$
 $657 \times 5 + 6 = 3291$
 $\therefore ? = 3291 \times 6 + 7$
 $= 19746 + 7 = 19753$

Hence, 19753 will replace the question mark.

32. (4) The given number series is based on the following pattern:

$$13 \times 1 = 13$$

 $13 \times 5 = 65$
 $65 \times 9 = 585$
 $585 \times 13 = 7605$
 $7605 \times 17 = 129285$
 $\therefore ? = 129285 \times 21 = 2714985$

Hence, 2714985 will replace the question

33. (1) The given number series is based on the following pattern :

$$40280625 \div 55 = 732375$$

 $732375 \div 45 = 16275$
 $16275 \div 35 = 465$
 $465 \div 25 = 18.6$
 $18.6 \div 15 = 1.24$
 $\therefore ? = 1.24 \div 5 = 0.248$

Hence, 0.248 will replace the question mark.

34. (3) The given number series is based on the following pattern :

$$14 \times 1 - 2 = 14 - 2 = 12$$

 $12 \times 2 - 3 = 24 - 3 = 21$
 $21 \times 3 - 4 = 63 - 4 = 59$

$$\therefore$$
 ? = 1149 × 6 - 7 = 6894 - 7 = **6887**

Hence, 6887 will replace the question mark.

35. (2) The given number series is based on the following pattern :

$$12 \times 12 \times 12 = 1728$$

$$14 \times 14 \times 14 = 2744$$

$$16 \times 16 \times 16 = 4096$$

$$20 \times 20 \times 20 = 8000$$

$$22 \times 22 \times 22 = 10648$$

$$\therefore$$
 ? = 24 × 24 × 24 = **13824**

Hence, 13824 will replace the question mark.

36. (3) The given number series is based on the following pattern :

$$120 \div 8 = 7$$

$$15 \times 7 = 105$$

$$105 \div 6 = 17.5$$

$$17.5 \times 5 = 87.5$$

$$\therefore$$
 = 87.5 \div 4 = **21.875**

Hence, 21.875 will replace the question mark.

37. (5) The given number series is based on the following pattern :

Hence, 105 will replace the question mark.

38. (5) The given number series is based on the following pattern :

$$357.5 - 247.5 = 110$$

$$157.5 - 87.5 = 70$$

$$87.5 - 47.5 = 40$$

$$87.5 - 37.5 = 50$$

$$37.5 - 7.5 = 30$$

Clearly, **47.5** is the wrong number. It should be replaced by 37.5.

39. (3) The given number series is based on the following pattern:

$$13 + 3 = 16$$

$$16 + 5 = 21$$

$$21 + 7 = 28 \neq 27$$

$$28 + 11 = 39$$

$$39 + 13 = 52$$

$$52 + 17 = 69$$

Clearly, 27 is the wrong num-ber. It should be replaced by 28.

40. (3) The given number series is based on the following pattern:

1500 + 81 = 1581 1581 + 83 = 1664 1664 + 85 = 1749

1749 + 87 = 1836 ≠ **1833**

1836 + 89 = 1925 1925 + 91 = 2016

Clearly, 1833 is the wrong number. It should be replaced by 1836.

41. (2) The given number series is based on the following pattern:

66 + 25 = 9191 + 29 = 120

120 + 33 = 153153 + 37 = 190

 $190 + 41 = 231 \neq$ **233**

231 + 45 = 276

Clearly, 233 is the wrong number. It should be replaced by 231.

42. (1) The given number series is based on the following pattern:

 $11 \times 11 \times 11 = 1331$

 $13 \times 13 \times 13 = 2197$

 $15 \times 15 \times 15 = 3375$

 $17 \times 17 \times 17 = 4913 \neq 4914$

 $19 \times 19 \times 19 = 6859$

Clearly, 4914 is the wrong number. It should be replaced by 4913.

43. (3) The given number series is based on the following pattern:

 $20 + 2^2 = 24$

 $24 + 3^2 = 33$

 $33 + 4^2 = 49$

 $49 + 5^2 = 74$

 $74 + 6^2 = 110$

 \cdot ? = 110 + 7²

= 110 + 49 = **159**

44. (5) The given number series is based on the following pattern:

 $529 = 23 \times 23$

 $841 = 29 \times 29$

 $961 = 31 \times 31$

 $1369 = 37 \times 37$

 $1681 = 41 \times 41$

 $1849 = 43 \times 43$

 \therefore ? = 47 × 47 = **2209**

Here, the numbers are formed by squaring the prime numbers greater than 23.

45. (4) The given number series is based on the following pattern:

 $16 \times 1.5 = 24$

 $24 \times 2 = 48$

 $48 \times 2.5 = 120$

 $120 \times 3 = 360$

 $360 \times 3.5 = 1260$

 \therefore ? = 1260 × 4 = **5040**

46. (1) The given number series is based on the following pattern :

 $8 \times 4 - 1 = 32 - 1 = 31$

 $31 \times 4 - 2 = 124 - 2 = 122$

122 × 4 - 3 = 488 - 3 = 485

485 × 4 - 4 = 1940 - 4 = 1936

 $1936 \times 4 - 5 = 7744 - 5 = 7739$

∴ ? = 7739 × 4 - 6

= 30956 - 6 = **30950**

47. (2) The given number series is based on the following pattern:

499 + 1 × 123 = 622

622 + 2 × 123 = 868

060 + 2 - 100

 $868 + 3 \times 123 = 1237$

 $1237 + 4 \times 123 = 1729$

 $1729 + 5 \times 123 = 2344$ \therefore ? = 2344 + 6 × 123

= 2344 + 738 = **3082**

48. (1) The given number series is based on the following pattern

 $1^{1} = 1; 2^{2} = 4$

 $3^3 = 27$; $4^4 = 256$

 $5^5 = 3125$; $6^6 = 46656$

Hence 46658 is the wrong number.

49. (4) The given number series is based on the following pattern

 $18000 \div 5 = 3600$

 $3600 \div 5 = 720$

 $720 \div 5 = 144 \neq$ **142.2**

 $144 \div 5 = 28.3$

 $28.8 \div 5 = 5.76$

Hence 142.2 is the wrong number.

50. (5) The given number series is based on the following pattern:

 $12 + 15^2 = 12 + 225 = 237$

 $237 + 13^2 = 237 + 169 = 406$

 $406 + 11^2 = 406 + 121 = 527$

527 + 81 = 608

 $608 + 7^2 = 608 + 49 = 657$

Hence 604 is the wrong number.

51. (3) The given number series is based on the following pattern:

 $3 \times 7 + 2 \times 7 = 21 + 14 = 35$

 $35 \times 6 + 3 \times 6 = 210 + 18$

= 228 ≠ **226**

 $228 \times 5 + 4 \times 5 = 1140 + 20 = 1160$

 $1160 \times 4 + 5 \times 4 = 4640 + 20 = 4660$

 $4660 \times 3 + 6 \times 3 = 13980 + 18 = 13998$

Hence 226 is the wrong number

52. (2) The given number series i based on the following pattern:

```
119 \times 6 - 6 = 714 - 708
                                                                 61.
                                                                          (2) 2^3 = 8 : 3^3 = 27
                                                                          4^3 = 64 : 5^3 = 125
         708 \times 5 - 5 = 3540 - 5 = 3535 \neq 3534
                                                                          6^3 = 216 \neq 218
         3535 \times 4 - 4 = 14140 - 4 = 14136
         Hence 3534 is the wrong number.
                                                                          7^3 = 343
53.
         (5) 5 + 2^2 = 5 + 4 = 9
                                                                 62.
                                                                          (4) 19 + 7^2 = 19 + 49 = 68
         9 + 3^2 = 9 + 9 = 18
                                                                          68 + 6^2 = 68 + 36 = 104 \neq 102
         18 + 4^2 = 18 + 16 = 34
                                                                          104 + 5^2 = 104 + 25 = 129
         34 + 5^2 = 34 + 25 = 59
                                                                          129 + 4^2 = 129 + 16 = 145
         59 + 6^2 = 59 + 36 = 95
                                                                          145 + 3^2 = 145 + 9 = 154
         \therefore ? = 95 + 7<sup>2</sup> = 95 + 49 = 144
                                                                 63.
                                                                          (5)
         (1) 1200 \div 2.5 = 480
54.
                                                                          0 + 5 = 5
         480 \div 2.5 = 192
                                                                          5 + 13 = 18
         192 \div 2.5 = 76.8
                                                                          18 + 25 = 43
         76.8 \div 2.5 = 30.72
                                                                          43 + 41 = 84
         30.72 \div 2.5 = 12.288
                                                                          84 + 61 = 145
         \therefore ? = 12.288 \div 2.5 = 4.9152
                                                                          · ? = 145 + 85 = 230
         (3) 963 - 1 \times 36 = 963 - 36 = 927
                                                                 64.
                                                                          (4) 10 \times 1 + 1 \times 7 = 10 + 7 = 17
55.
         927 - 2 \times 36 = 927 - 72 = 855
                                                                          17 \times 2 + 2 \times 7 = 34 + 14 = 48
         855 - 3 \times 36 = 855 - 108 = 747
                                                                          48 \times 3 + 3 \times 7 = 144 + 21 = 165
         747 - 4 \times 36 = 747 - 144 = 603
                                                                          165 \times 4 + 4 \times 7 = 660 + 28 = 688
         603 - 5 \times 36 = 603 - 180 = 423
                                                                          688 \times 5 + 5 \times 7 = 3440 + 35 = 3475
         \therefore ? = 423 - 6 × 36 = 423 - 216 = 207
                                                                          \therefore ? = 3475 × 6 + 6 × 7
         (2) 29 \times 29 = 841
56.
                                                                          = 20850 + 42 = 20892
         31 \times 31 = 961
                                                                 65.
                                                                          (3) 1 \times 3 = 3
         33 \times 33 = 1089
                                                                          3 \times 8 = 24
         35 \times 35 = 1225
                                                                          24 \times 15 = 360
                                                                          360 \times 24 = 8640
         37 \times 37 = 1369
         39 \times 39 = 1521
                                                                          8640 \times 35 = 302400
         \therefore ? = 41 × 41 = 1681
                                                                          \therefore ? = 302400 × 48
57.
         (4) 18 \times 1 + 2 = 18 + 2 = 20
                                                                          = 14515200
         20 \times 2 + 4 = 40 + 4 = 44
                                                                          (2) 12 \times 1 + 2 \times 1 = 12 + 2 = 14
                                                                 66.
                                                                          14 \times 2 + 2 \times 2 = 28 + 4 = 32
         44 \times 3 + 6 = 132 + 6 = 138
         138 \times 4 + 8 = 552 + 8 = 560
                                                                          32 \times 3 + 2 \times 3 = 96 + 6 = 102
         560 \times 5 + 10 = 2800 + 10 = 2810
                                                                          102 \times 4 + 2 \times 4 = 408 + 8 = 416
         \therefore ? = 2810 × 6 + 12 = 16860 + 12 = 16872
                                                                          416 \times 5 + 2 \times 5 = 2080 + 10
58.
         (3) 4 × 1 + 2 = 4 + 2 = 6
                                                                          = 2090
                                                                          \therefore ? = 2090 × 6 + 2 × 6
         6 \times 2 + 3 = 12 + 3 = 15 \neq 18
                                                                          = 12540 + 12 = 12552
         15 \times 3 + 4 = 45 + 4 = 49
          49 \times 4 + 5 = 196 + 5 = 201
          201 \times 5 + 6 = 1005 + 6 = 1011
                                                                  67.
                                                                           (1) 10 \times _2 = 15
          (5) 48 \times _{2} = 72; 72 \times _{2} = 108
 59.
                                                                           15 \times \frac{4}{4} = 15
          108 \times \frac{3}{2} = 162 : 162 \times \frac{3}{2} = 243
                                                                           15 \times 6 = 12.5
          243 \times {}^{3} = 364.5 \neq 366
                                                                           12.5 \times 8 = 9.375
          (1) 2 × 6 + 7 × 6 = 12 + 42 = 54
 60.
          54 \times 5 + 6 \times 5 = 270 + 30 = 300
          300 \times 4 + 5 \times 4 = 1200 + 20 = 1220
                                                                           9.375 \times 10^{-2} = 6.5625
          1220 \times 3 + 4 \times 3 = 3660 + 12
          = 3672 ≠ 3674
                                                                            \therefore ? = 6.5625 × <sub>12</sub> = 4.375
          3672 \times 2 + 3 \times 2 = 7344 + 6
```

= 7350

 $18 \times 7 - 7 = 126 - 7 = 119$

```
68.
         (3) The pattern of the number series is:
                                                                        6 \times 2.5 + 2.5 = 15 + 2.5 = 17.5
         17 \times 3 + 1 = 51 + 1 = 52
                                                                        17.5 \times 3.5 + 3.5 = 61.25 + 3.5 = 64.75
        52 \times 3 + 2 = 156 + 2 = 158
                                                               78.
                                                                        (2) The pattern is:
         158 \times 3 + 3 = 474 + 3 = 477
                                                                        16 \times 0.5 = 8.8 \times 1.5 = 12
         477 \times 3 + 4 = 1431 + 4 = 1435
                                                                        12 \times 2.5 = 30\ 30 \times 3.5 = 105
69.
         (4) The pattern of the number series is:
                                                               79.
                                                                        (4) The pattern is:
         3 \times 7 + 1 = 21 + 1 = 22
                                                                        5 \times 1 + 1 = 6
        22 \times 6 + 2 = 132 + 2 = 134
                                                                        6 \times 2 + 2 = 14
                                                                        14 \times 3 + 3 = 45
         134 \times 5 + 3 = 670 + 3 = 673
         673 \times 4 + 4 = 2692 + 4 = 2696
                                                                        45 \times 4 + 4 = 184
70.
         (1) The pattern of the number series is:
                                                               80.
                                                                        (1) The pattern is:
         6 \times 1 + 1 \times 7 = 6 + 7 = 13
                                                                        7 \times 1 + 1 \times 5 = 12
         13 \times 2 + 2 \times 6 = 26 + 12 = 38
                                                                        12 \times 2 + 2 \times 4 = 32
         38 \times 3 + 3 \times 5 = 114 + 15 = 129
                                                                        32 \times 3 + 3 \times 3 = 105
         129 \times 4 + 4 \times 4 = 516 + 16 = 532
                                                                        105 \times 4 + 4 \times 2 = 428
71.
        (5) The pattern of the number series is:
                                                               81.
                                                                        (5) The pattern is:
                                                                        11 \times 2 + 1 = 23
                                                                        23 × 2 + 1 = 41
            2 - 1 = 143 - 1 = 142
                                                                        47 \times 2 + 1 = 95
         142
                                                                        95 \times 2 + 1 = 191
               -1 = 71 -1 = 70
                                                               82.
                                                                        (3) The pattern is:
           2
                                                                        9 \times 2 - 1 = 17
         70
                                                                        17 \times 2 - 1 = 33
          2 - 1 = 35 - 1 = 34
                                                                        33 \times 2 - 1 = 65
                                                                        65 \times 2 - 1 = 129
         34
                                                               83.
                                                                        (3) The pattern of the number series is:
          o - 1 = 17- 1 = 16
                                                                        8 + 3 = 11
72.
        (3) The pattern of the number series is:
                                                                        11 + 3^2 = 11 + 9 = 20 \neq 17
         17 \times 0.5 + 0.5 = 9
                                                                        20 + 3^3 = 20 + 27 = 47
         9 \times 1 + 1 = 10
                                                                        47 + 3^4 = 47 + 81 = 128
         10 \times 1.5 + 1.5 = 16.5
                                                                        128 + 3^5 = 128 + 243 = 371
         16.5 \times 2 + 2 = 35
                                                               84.
                                                                        (3) The pattern of the number series is:
73.
         (5) The pattern is:
                                                                        1 + 2^2 = 1 + 4 = 5
        2 \times 3 + 2 = 6 + 2 = 8
                                                                        5 + 2^3 = 5 + 8 = 13
         8 \times 3 + 2 = 24 + 2 = 26
                                                                        13 + 2^4 = 13 + 16 = 29 \neq 31
        26 \times 3 + 2 = 78 + 2 = 80
                                                                        29 + 2^5 = 29 + 32 = 61
        80 \times 3 + 2 = 240 + 2 = 242
                                                                        61 + 2^6 = 61 + 64 = 125
74.
         (1) The pattern is:
                                                               85.
                                                                        (3) The pattern is:
        3 \times 1 + 1^2 = 3 + 1 = 4
                                                                        150 \times 2 - 1 \times 10
         4 \times 2 + 2^2 = 8 + 4 = 12
                                                                        = 300 - 10 = 290
         12 \times 3 + 3^2 = 36 + 9 = 45
                                                                        290 \times 2 - 2 \times 10
         45 \times 4 + 4^2 = 180 + 16 = 196
                                                                        = 580 - 20 = 560
75.
         (4) The pattern is:
                                                                        560 \times 2 - 3 \times 10 = 1120 - 30
         9 \times 2 - 1 = 18 - 1 = 17
                                                                        = 1090 ≠ 1120
         17 \times 2 - 1 = 34 - 1 = 33
                                                                        1090 \times 2 - 4 \times 10 = 2180 - 40 = 2140
        33 \times 2 - 1 = 66 - 1 = 65
                                                                        2140 \times 2 - 5 \times 10 = 4280 - 50 = 4230
        65 \times 2 - 1 = 130 - 1 = 129
                                                               86.
                                                                        (2) The pattern is : 10 \times 1 - 2 = 8
76.
        (2) The pattern is:
                                                                        8 \times 2 - 3 = 13
         7 \times 2 - 1 = 14 - 1 = 13
                                                                        13 \times 3 - 4 = 35
        13 \times 2 - 1 = 26 - 1 = 25
                                                                        35 \times 4 - 5 = 135
         25 \times 2 - 1 = 50 - 1 = 49
                                                                        135 \times 5 - 6 = 675 - 6
         49 \times 2 - 1 = 98 - 1 = 97
                                                                        = 669 ≠ 671
77.
         (3) The pattern is:
                                                                        669 \times 6 - 7 = 4014 - 7 = 4007
         5 \times 0.5 + 0.5 = 2.5 + 0.5 = 3
                                                               87.
                                                                        (3) The pattern is:
         3 \times 1.5 + 1.5 = 4.5 + 1.5 = 6
                                                                        (80 \div 2) + 2 = 40 + 2 = 42
```

```
(42 \div 2) + 2 = 21 + 2 = 23 \neq 24
                                                                         131 + 3^2 = 140
        (23 \div 2) + 2 = 11.5 + 2 = 13.5
                                                                         140 + 2^2 = 140 + 4 = 144
         (13.5 \div 2) + 2 = 6.75 + 2 = 8.75
                                                                96.
                                                                         (4) The pattern is:
         (8.75 \div 2) + 2 = 4.375 + 2 = 6.375
                                                                         7 \times 0.5 + 0.5 = 3.5 + 0.5 = 4
88.
        (1) The pattern is:
                                                                         4 \times 1 + 1 = 4 + 1 = 5
                                                                         5 \times 1.5 + 1.5 = 7.5 + 1.5 = 9
        125 \times \begin{array}{c} 3 \\ 5 = 75 \end{array}
                                                                         9 \times 2 + 2 = 18 + 2 = 20
                                                                97.
                                                                         (3) The pattern is:
                                                                         6 \times 7 = 42
                                                                         42 \times 6 = 252
                                                                         252 \times 5 = 1260
                                                                98.
                                                                         (1) The pattern is:
                                                                         4 \times 5 - 10 = 10
                                                                         10 \times 5 - 10 = 40
         27 \times _{5} = 16.2
                                                                         40 \times 5 - 10 = 190
                                                                         190 \times 5 - 10 = 940
                  3
                                                                         940 \times 5 - 10 = 4700 - 10
         16.2 \times _{5} = 9.72
                                                                         = 4690
                                                                99.
                                                                         (2) The pattern is:
89.
         (5) The pattern is:
                                                                         2 \times 1 + 1 \times 7 = 9
         29 + 1 \times 8 = 37
                                                                         9 \times 2 + 2 \times 6 = 30
         37 - 2 \times 8 = 37 - 16 = 21
                                                                         30 \times 3 + 3 \times 5 = 105
        21 + 3 \times 8 = 21 + 24 = 45 \neq 43
                                                                         105 \times 4 + 4 \times 4 = 436
         45 - 4 \times 8 = 45 - 32 = 13
                                                                         436 \times 5 + 5 \times 3 = 2195
         13 + 5 \times 8 = 13 + 40 = 53
                                                                100.
                                                                         (2) The pattern of the numbe series is:
        53 - 6 \times 8 = 53 - 48 = 5
                                                                         (484 \div 2) - 2 = 242 - 2 = 240
90.
        (3) The pattern is:
                                                                         (240 \div 2) - 2 = 120 - 2 = 118 = 120
        13 + 12 = 25; 25 + 15 = 40
                                                                         (118 \div 2) - 2 = 59 - 2 = 57
         40 + 18 = 58 \neq 57
                                                                         (57 \div 2) - 2 = 28.5 - 2 = 26.5
         58 + 21 = 79
                                                                101.
                                                                         (4) The pattern of the number series is:
91.
        (1) The pattern is:
                                                                         3 \times 1 + 2 = 5
         850 - 200 = 650 \neq 600
                                                                         5 \times 2 + 3 = 13
        650 - 100 = 550
                                                                         13 \times 3 + 4 = 43
         550 - 50 = 500
                                                                         43 \times 4 + 5 = 177 \neq 176
         500 - 25 = 475
                                                                         177 \times 5 + 6 = 891
         475 - 12.5 = 462.5
92.
                                                                102.
        (4) The pattern is:
                                                                         (5) The Pattern of the number series is:
                                                                         6 + 1^2 = 6 + 1 = 7
         2 \times 3 = 6 \neq 10
        6 \times 3 = 18
                                                                         7 + 3^2 = 7 + 9 = 16
                         ; 18 \times 3 = 54
                                                                         16 + 5^2 = 16 + 25 = 41
        54 \times 3 = 162
93.
                                                                         41 + 7^2 = 41 + 49 = 90
         (3) The pattern is:
                                                                         90 + 9^2 = 90 + 81 = 177 \neq 154
        8 + 4 \times 1 = 12; 12 + 4 \times 3 = 24
                                                                         171 + 11^2 = 171 + 121 = 292
        24 + 4 \times 5 = 44 \pm 46
                                                                103.
                                                                        (1) The pattern of the number series is:
        44 + 4 \times 7 = 72
         72 + 4 \times 9 = 108
                                                                         5 \times 1 + 1^2 = 6 \neq 7
94.
                                                                         6 \times 2 + 2^2 = 16
         (1) The pattern is:
         142 - 23 = 119; 119 - 19 = 100
                                                                         16 \times 3 + 3^2 = 57
                                                                         57 \times 4 + 4^2 = 228 + 16 = 244
         100 - 17 = 83
        83 - 13 = 70 \neq 65
                                                                         244 \times 5 + 5^2 = 1220 + 25 = 1245
         70 - 11 = 59
                                                                104.
                                                                        (3) The pattern of the number series is:
        59 - 7 = 52
                                                                         4 \times 0.5 + 0.5 = 2 + 0.5 = 2.5
95.
         (5) The pattern is:
                                                                         2.5 \times 1 + 1 = 3.5
         5 + 7^2 = 54
                                                                         3.5 \times 1.5 + 1.5 = 6.75 = \neq 65
         54 + 6^2 = 90
                                                                         6.75 \times 2 + 2 = 15.5
        90 + 5^2 = 115
                                                                         15.5 \times 2.5 + 2.5 = 38.75 + 25 = 41.25
                                                                         41.25 \times 3 + 3 = 123.75 + 3 = 126.75
         115 + 4^2 = 131
```

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105.
                                                           114.
                                                                   (1) The pattern of the number series is:
        (4) The pattern of the number series is:
        325 - 1 \times 11 = 314
                                                                    37 + 1 \times 5 = 42 \neq 47
                                                                    42 + 2 \times 5 = 52
        314 - 2 \times 11 = 292
        292 - 3 \times 11 = 259
                                                                    52 + 3 \times 5 = 67
                                                                    67 + 4 \times 5 = 87
        259 - 4 \times 11 = 215
        215 - 5 \times 11 = \neq 160
                                                                    87 + 5 \times 5 = 112
                                                                    112 + 6 \times 5 = 142
106.
        (2) The pattern of the number series is:
                                                                    (2) The pattern of the number series is:
                                                           115.
        45 \times 1 + 1 = 46
        46 \times 1.5 + 1 = 70
                                                                    13 + 3 = 16
        70 \times 2 + 1 = 141
                                                                    16 + (3 + 3) = 22
                                                                    22 + (6 + 5) = 33
        141 \times 2.5 + 1
                                                                    33 + (11 + 7) = 51
        = 352.5 + 1 = 353.5
                                                                    51 + (18 + 9) = 78
107.
        (3) The pattern of the number series is:
                                                           116.
                                                                    (3) The pattern of the number series is:
        620 + 1 \times 12 = 632
        632 - 2 \times 12 = 608
                                                                    39 + 1 \times 13 = 52
                                                                    52 + 2 \times 13 = 78
        608 + 3 \times 12 = 644
                                                                    78 + 3 \times 13 = 117
        644 - 4 + 12 = 596
                                                                    117 + 4 \times 13 = 169
        596 + 5 \times 12 = j656 j
108.
        (5) The pattern of the number series is:
                                                                    169 + 5 \times 13 = 234
        15 \times 2 - 1 \times 5 = 25
                                                           117.
                                                                   (2) The pattern of the number series is:
        25 \times 2 - 2 \times 5 = 40
                                                                    62 + 5^2 = 62 + 25 = 87
                                                                    87 + 10^2 = 87 + 100 = 187
        40 \times 2 - 3 \times 5 = 65
                                                                    187 + 15^2 = 187 + 225 = 412
        65 \times 2 - 4 \times 5 = 110
        110 \times 2 - 5 \times 5 = 195
                                                                    412 + 20^2 = 412 + 400 = 812
                                                                    812 + (25)^2 = 812 + 625 = 1437
109.
        (5) The pattern of the number series is:
        120 \times 2.5 + 20 = 320
                                                           118.
                                                                    (1) The pattern of the number series is:
                                                                    7 + 1^2 = 8
        320 \times 2.5 + 20 = 820
                                                                    8 + 4^2 = 24
        820 \times 2.5 + 20 = 2070
        2070 \times 2.5 + 20 = 5195
                                                                    24 + 9^2 = 105
                                                                    105 + 16^2 = 361
110.
        (1) The pattern of the number series is:
                                                                    361 + 25<sup>2</sup> = 986
        32 + 1^2 = 32 + 1 = 33 \neq 34
        33 + 2^2 = 33 + 4 = 37
                                                           119.
                                                                    (1) The pattern of the number series is:
        37 + 3^2 = 37 + 9 = 46
                                                                    656 - 224 = 432
        46 + 4^2 = 46 + 16 = 62
                                                                    432 - 112 = 320
        62 + 5^2 = 62 + 25 = 87
                                                                    320 - 56 = 264
111.
        (3) The pattern of the number series is:
                                                                    264 - 28 = 236
        7 + 1 \times 11 = 7 + 11 = 18
                                                                    236 - 14 = 222
        18 + 3 \times 11 = 18 + 33 = 51 \neq 40
                                                            120.
                                                                    (2) The pattern of the number series is:
                                                                    7 \times 2 + 6 = 20
        51 + 5 \times 11 = 51 + 55 = 106
        106 + 7 \times 11 = 106 + 77 = 183
                                                                    20 \times 2 + 6 = 46
        183 + 9 \times 11 = 183 + 99 = 282
                                                                    46 \times 2 + 6 = 98
112.
        (4) The pattern of the number series is:
                                                                    98 \times 2 + 6 = 202
                                                                    202 \times 2 + 6 = 404 + 6 = 410
        850 - 1 \times 7 = 843
                                                                    (2) The pattern of the number series is:
        843 - 2 \times 7 = 829
                                                            121.
        829 - 3 \times 7 = 808
                                                                    210 - 1^3 = 209
                                                                    209 + 2^2 = 213
        808 - 4 \times 7 = 780 \neq 788
        780 - 5 \times 7 = 745
                                                                    213 - 3^3 = 186
        745 - 6 \times 7 = 703
                                                                    186 + 4^2 = 202
113.
                                                                    202 - 5^3 = 202 - 125 = 77
        (5) The pattern of the number series is:
                                                            122.
                                                                   (5) The pattern of the number series is:
        33 + 288 = 321
        321 + 144 = 465
                                                                    27 + 11 = 38
        465 + 72 = 537
                                                                    38 + 33 = 71
                                                                    71 + 55 = 126
        537 + 36 = 573
        573 + 18 = 591 \neq 590
                                                                    126 + 77 = 203
        591 + 9 = 600
                                                                    203 + 99 = 302
```

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123.
        (3) The pattern of the number series is:
                                                                     1 \times 1 + 1 = 2
        435 - 9 \times 9 = 354
                                                                     2 \times 2 + 2 = 6
        354 - 9 \times 8 = 282
                                                                     6 \times 3 + 3 = 21
        282 - 9 \times 7 = 219
                                                                     21 \times 4 + 4 = 88
        219 - 9 \times 6 = 165
                                                                     88 \times 5 + 5 = 445
        165 - 9 \times 5 = 120
                                                                     445 \times 6 + 6 = 2676
124.
                                                             133.
        (3) The paatem of the number series is:
                                                                     (4) The pattern of the number series is:
        4 + 14^2 = 4 + 196 = 200
                                                                     20 + 1^2 = 21
                                                                     21 + 2^2 = 25
        200 + 13^2 = 200 + 169 = 369
                                                                     25 + 3^2 = 34
        369 + 12^2 = 369 + 144 = 513
        513 + 11^2 = 513 + 121 = 634
                                                                     34 + 4^2 = 50
        634 + 10^2 = 634 + 100 = 734
                                                                     50 + 5^2 = 75
                                                                     (5) The pattern of the number series is:
125.
                                                             134.
        (3) The pattern of the number series is:
        495 - 1 \times 10 = 485
485 - 2 \times 10 = 465
                                                                      600 + 5 = 125
                                                                       5
        465 - 4 \times 10 = 425
                                                                     125
        425 - 8 \times 10 = 345
        345 - 16 \times 10 = 185
                                                                           + 5 = 30
126.
        (2) The pattern of the number series is:
                                                                      30
        16 + 6 = 22
                                                                      5 + 5 = 11
        22 + 11 = 33
        33 + 16 = 49
        49 + 21 = 70
                                                                        + 5 = 7.2
        70 + 26 = 96
                                                             135.
                                                                     (4) The pattern of the number series is:
127.
        (5) The pattern of the number series is:
                                                                     11 + 2^2 = 11 + 4 = 15
        32 + 2^2 = 36
                                                                     15 + 4^2 = 15 + 16 = 31
        36 + 4^2 = 52
                                                                     31 + 6^2 = 31 + 36 = 67
        52 + 6^2 = 88
                                                                     67 + 8^2 = 67 + 64 = 131
        88 + 8^2 = 152
                                                                     131 + 10^2 = 131 + 100 = 231
        152 + 10^2 = 252
                                                             136.
                                                                     (1) The pattern of the number series is:
128.
        (3) The pattern of the number series is:
                                                                     483 - 1 \times 12 = 483 - 12 = 471
        17 + 272 = 289
                                                                     471 - 3 \times 12 = 471 - 36 = 435
        289 + 136 = 425
                                                                     435 - 5 \times 12 = 435 - 60 = 375
        425 + 68 = 493
                                                                     375 - 7 \times 12 = 375 - 84 = 291
        493 + 34 = 527
                                                                     291 - 9 × 12 = 291 - 108 = 183
        527 + 17 = 544
                                                             137.
                                                                     (2) The pattern of the number series is:
129.
        (4) The pattern of the numbe series is:
                                                                     5 + 1 \times 2 = 7
        13 + 1 \times 14 = 27
                                                                     7 + 2 \times 3 = 13
        27 + 2 \times 14 = 55
                                                                     13 + 3 \times 4 = 25
        55 + 3 \times 14 = 97
                                                                     25 + 4 \times 5 = 45
        97 + 4 \times 14 = 153
                                                                     45 + 5 \times 6 = 75
        153 + 5 \times 14 = 223
                                                             138.
                                                                     (1) The pattern of the number series is:
130.
        (3) The pattern of the number series is:
                                                                     4 + 1 \times 7 = 11
        50 \times 1.2 = 60
                                                                     11 + 2 \times 7 = 25
        60 \times 1.25 = 75
                                                                     25 + 4 \times 7 = 53
        75 \times 1.3 = 97.5
                                                                     53 + 8 \times 7 = 109
        97.5 \times 1.35 = 131.625
                                                                     109 + 16 \times 7 = 109 + 112 = 221
        131.625 \times 1.4 = 184.275
                                                             139.
                                                                     (3) The pattern of the number series is:
131. (3) The pattern of the number series is:
                                                                     15 + 6 \times 1 = 21
        12 \times 1 + 3 \times 1 = 15
                                                                     21 + 6 \times 2 = 33
        15 \times 2 + 3 \times 2 = 36
                                                                     33 + 6 \times 3 = 51
        36 \times 3 + 3 \times 3 = 117
                                                                     51 + 6 \times 4 = 75
        117 \times 4 + 3 \times 4 = 480
                                                                     75 + 6 \times 5 = 105
        480 \times 5 + 3 \times 5 = 2415
                                                                     (1) The pattern of the number series is:
                                                             140.
132.
        (2) The pattern of the number series is:
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```
5 \times 3 = 15
        5 + 7^3 = 5 + 343 = 348
                                                                    15 \times 5 = 75
        348 + 6^3 = 348 + 216 = 564
        564 + 5^3 = 564 + 125 = 689
                                                                    75 \times 7 = 525
        689 + 4^3 = 689 + 64 = 753, not 716
                                                                    525 \times 9 = 4725
        753 + 3^3 = 753 + 27 = 780
                                                            149.
                                                                    (1) The pattern of the number series is:
141.
       (4) The pattern of the number series is:
                                                                    52 ×
        4444
                +2 = 2224
                                                                    26 \times 1 = 26
        2224
                                                                           3
                                                                    26 \times _{0} = 39
               +2 = 1114
                                                                    39 \times 2 = 78
        1114
               + 2 = 559 not 556
                                                                    78 × <sub>2</sub> = 195
        559
                                                            150.
                                                                    (3) The pattern of the number series is:
          _2 + 2 = 281.5
                                                                    14 - 10 = 4
142.
        (5) The pattern of the number series is:
                                                                    25 - 14 = 11 = 4 \times 3 - 1
        4.5 + 11.5 = 16
                                                                    55 - 25 = 30 = 11 \times 3 - 3
        16 + 9.5 = 25.5, not 25
                                                                    140 - 55 = 85 = 30 \times 3 - 5
        25.5 + 7.5 = 33
                                                                    \therefore ? = 140 + 85 × 3 - 7
        33 + 5.5 = 38.5
                                                                    = 140 + 248 = 388
143.
        (3) The pattern of the number series is:
                                                            151.
                                                                    (5) The pattern of the number series is:
        6 \times 7 + 1 \times 7 = 49
                                                                    119 + 1 \times 12 = 131
        49 \times 6 + 2 \times 6 = 306, not 305
                                                                    131 + 2 \times 12 = 155
        306 \times 5 + 3 \times 5 = 1545
                                                                    155 + 3 \times 12 = 191
        1545 \times 4 + 4 \times 4 = 6196
                                                                    191 + 4 \times 12 = 239
        6196 \times 3 + 5 \times 3 = 18603
                                                                    239 + 5 \times 12 = 299
144.
        (3) The pattern of the number series is:
                                                            152.
                                                                    (4) The pattern of the number series is:
        8 \times 0.5 + 1 = 5
                                                                    11 + 1 \times 46 = 11 + 46 = 57
        5 \times 1 + 1.5 = 6.5
                                                                    57 + 2 \times 46 = 57 + 92 = 149
        6.5 \times 1.5 + 2 = 9.75 + 2 = 11.75, not 11
                                                                    149 + 2 \times 92 = 149 + 184 = 333
        11.75 \times 2 + 2.5 = 23.5 + 2.5 = 26
                                                                    333 + 2 \times 184 = 333 + 368 = 701
        26 \times 2.5 + 3 = 68
                                                                    701 + 2 \times 368 = 701 + 736 = 1437
145.
        (3) The pattern of the number series is:
                                                            153.
                                                                    (2) The pattern of the number series is:
        586 + 1 = 587
                                                                    697 - 553 = 144 = 12^2
        587 + (1 - 2) = 587 - 1 = 586
                                                                    553 - 453 = 100 = 10^{2}
        586 + (-1 - 4) = 586 - 5 = 581
                                                                    453 - 389 = 64 = 8^2
        581 + (-5 - 6) = 581 - 11 = 570
                                                                    389 - 353 = 36 = 6^2
        570 + (-11 - 8) = 570 - 19 = 551
                                                                    \therefore ? = 353 - 4<sup>2</sup> = 353 - 16 = 337
        551 + (-19 - 10) = 551 - 29 = 522
                                                            154.
                                                                    (1) The pattern of the number series is:
146.
        (5) The pattern of the number series is:
                                                                    336 - 224 = 112
        64 - 10 = 54
                                                                    224 - 168 = 56
        54 + 15 = 69
                                                                    168 - 140 = 28
        69 - 20 = 49
                                                                    140 - 126 = 14
        49 + 25 = 74
                                                                    \therefore ? = 126 - 7 = 119
        74 - 30 = 44
                                                                    (2) The pattern of the number series is:
                                                            155.
        44 + 35 = 79
                                                                    9 \times 2 - 3 = 18 - 3 = 15
147.
        (2) The pattern of the number series is:
                                                                    15 \times 2 - 3 = 30 - 3 = 27
        (4000 \div 2) + 8 = 2008
                                                                    27 \times 2 - 3 = 54 - 3 = 51
        (2008 \div 2) + 8 = 1012
                                                                    51 \times 2 - 3 = 102 - 3 = 99
        (1012 \div 2) + 8 = 514
                                                                    99 \times 2 - 3 = 198 - 3 = 195
        (514 \div 2) + 8 = 265
                                                            156.
                                                                    (4) The pattern of the number series is:
        (3) The pattern of the number series is:
148.
                                                                    13 + 8 = 21
        5 \times 1 = 5
                                                                    21 + 8 + 7 = 21 + 15 = 36
```

```
36 + 15 + 7 = 36 + 22 = 58
                                                                   \therefore ? = 627 + 17 = 644
        58 + 22 + 7 = 58 + 29 = 87
                                                          166.
                                                                  (4) The pattern of the number series is:
        87 + 29 + 7 = 87 + 36 = 123
                                                                  7 + 1 \times 4 = 11
157. (4) The pattern of the number series is:
                                                                   11 + (1 + 2) 4 = 11 + 3 \times 4 = 23
        7 + 2 + 0 = 9
                                                                  23 + (3 + 4) 4 = 23 + 7 \times 4 = 51
        9 + (2 + 8) = 19
                                                                   51 + (7 + 6) 4 = 51 + 13 \times 4 = 103
        19 + (10 + 16) = 45
                                                                   103 + (13 + 8) 4 = 103 + 21 \times 4 = 187
        45 + (26 + 24) = 95
                                                          167.
                                                                  (4) The pattern of the number series is:
        95 + (50 + 32) = 177
                                                                   18 + 9 = 27
        (1) The pattern of the number series is:
                                                                  27 + (9 + 13) = 49
158.
        14 + 1^2 = 15
                                                                  49 + (9 + 26) = 84
        15 + 2^3 = 23
                                                                  84 + (9 + 39) = 132
        23 + 3^2 = 32
                                                           168.
                                                                  (2) The pattern of the number series is:
                                                                  33 + 10 = 43
        32 + 4^3 = 96
        96 + 5^2 = 96 + 25 = 121
                                                                  43 + (10 + 12) = 65
159.
        (3) The pattern of the number series is:
                                                                   65 + (10 + 24) = 99
        20 + 1 \times 4 = 20 + 4 = 24
                                                                  99 + (10 + 36) = 145
        24 + 3 \times 4 = 24 + 12 = 36
                                                                   145 + (10 + 48) = 203
        36 + 5 \times 4 = 36 + 20 = 56
                                                           169.
                                                                  (5) The pattern of the number series is:
        56 + 7 \times 4 = 56 + 28 = 84
                                                                   655 - 439 = 216 = 6^3
160.
        84 + 9 \times 4 = 84 + 36 = 120
                                                                  439 - 314 = 125 = 5^3
                                                                   314 - 250 = 64 = 4^3
        (2) The pattern of the number series is:
        732 - 3 = 729 = 9^3
                                                                  250 - 223 = 27 - 3^3
                                                                   \therefore ? = 223 - 2<sup>3</sup> = 223 - 8
        1244 - 732 = 512 = 8^3
        1587 - 1244 = 343 = 7^3
                                                                  = 215
        1803 - 1587 = 216 = 6^3
                                                          170.
                                                                  (4) The pattern of the number series is:
        1928 - 1803 = 125 = 5^3
                                                                   15 + 6 = 21
        \therefore? = 1928 + 4<sup>3</sup> = 1928 + 64 = 1992
                                                                  21 + 18 (= 6 + 12) = 39
                                                                   39 + 38 (= 18 + 20) = 77
161. (4) The pattern of the number series is :
        16 \times 1.5 = 24
                                                                   77 + 66 (= 38 + 28) = 143
        24 \times 2.5 = 60
                                                                   143 + 102 (= 66 + 36) = 245
        60 \times 3.5 = 210
                                                           171.
                                                                  (1) The pattern of the number series is:
        210 \times 4.5 = 945
                                                                   33 + 6 = 39
162.
        (1) The pattern of the number series is:
                                                                  39 + 18 (= 6 + 12) = 57
        (45030 \div 5) - 6 = 9000
                                                                   57 + 30 (= 18 + 12) = 87
        (9000 \div 5) - 5 = 1795
                                                                  87 + 42 (= 30 + 12) = 129
        (1795 \div 51 - 4 = 355)
                                                                   129 + 54 (= 42 + 12) = 183
        (355 \div 5) - 3 = 68
                                                                  (1) The pattern of the number series is:
                                                           172.
        (68 \div 5) - 2 = 13.6 - 2 = 11.6
                                                                   19 - 15 = 4 = 2^2
                                                                  83 - 19 = 64 = 4^3
163.
        (1) The pattern of the number series is:
        5 \times 1 + 1 \times 7 = 12
                                                                   119 - 83 = 36 = 6^2
                                                                  631 - 119 = 512 = 8^3
        12 \times 2 + 2 \times 6 = 36
                                                                   \therefore ? = 631 + 10<sup>2</sup> = 631 + 100 = 731
        36 \times 3 + 3 \times 5 = 123
        123 \times 4 + 4 \times 4 = 492 + 16 = 508
                                                          173.
                                                                  (3) The pattern of the number series is:
        508 \times 5 + 5 \times 3 = 2540 + 15 = 2555
                                                                   19 + 1 \times 7 = 19 + 7 = 26
164.
        (4) The pattern of the number series is:
                                                                   26 + 2 \times 7 = 26 + 14 = 40
        8 \times 0.5 + 7 = 4 + 7 = 11
                                                                  40 + 4 \times 7 = 40 + 28 = 68
        11 \times 1 + 6 = 17
                                                                   68 + 8 \times 7 = 68 + 56 = 124
                                                                   124 + 16 \times 7 = 124 + 112
        17 \times 1.5 + 5 = 25.5 + 5 = 30.5
        30.5 \times 2 + 4 = 61 + 4 = 65
                                                                  = 236
165.
        (5) The pattern of the number series is:
                                                          174.
                                                                  (5) The pattern of the number series is:
        389 - 117 = 272
                                                                   69 - 43 = 26
        525 - 389 = 136
                                                                  58 - 69 = -11
                                                                  84 - 58 = 26
        593 - 525 = 68
        627 - 593 = 34
                                                                  73 - 84 = -11
```

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\therefore ? = 73 + 26 = 99
                                                                   17 + 5 \times 3 = 32
                                                                   32 + 5 \times 5 = 57
175.
        (4) The pattern of the numbe series is:
        15 + 3 = 18
                                                                  57 + 5 \times 7 = 92
        18 - 2 = 16
                                                                  92 + 5 \times 9 = 137
        16 + 3 = 19
                                                          183.
                                                                  (4) The pattern of the number series is:
        19 - 2 = 17
                                                                   19 + 2 \times 3 = 19 + 6 = 25
        17 + 3 = 20
                                                                  25 + 4 \times 5 = 25 + 20 = 45
        20 - 2 = 18
                                                                  45 + 6 \times 7 = 45 + 42 = 87
176.
       (1) The pattern of the number series is:
                                                                  87 + 8 \times 9 = 87 + 72 = 159
                                                                   159 + 10 \times 11 = 159 + 110 = 269
                                                                  (5) The pattern of the number series is:
                                                           184.
        1050 \times _{5} = 420
                                                                   83 + 41 \times 1 = 124
                                                                   124 + 41 \times 2 = 124 + 82 = 206
                                                                   206 + 41 \times 4 = 206 + 164 = 370
        420 \times 5 = 168
                                                                  370 + 41 \times 8 = 370 + 328 = 698
                                                                   698 + 41 \times 16 = 698 + 656 = 1354
        168 \times _{5} = 67.2
                                                          185.
                                                                  (4) The pattern of the number series is:
                                                                   1 \times 7 = 7
        \therefore 10.752 \times _{5} = 4.3008
                                                                   7 \times 7 = 49
                                                                  49 \times 7 = 343
177.
        (5) The pattern of the number series is:
                                                                   343 \times 7 = 2401
        0 + 1 \times 6 = 6
                                                          186.
                                                                  (4) The pattern of the number series is:
        6 + 2 \times 9 = 24
                                                                   13 + 7 = 20
        24 + 3 \times 12 = 60
                                                                   20 + 19 (= 7 + 12) = 39
        60 + 4 \times 15 = 120
                                                                   39 + 39 (=19 + 20) = 78
        120 + 5 \times 18 = 210
                                                                   78 + 67 (= 39 + 28) = 145
        210 + 6 \times 21 = 210 + 126 = 336
                                                                   145 + 103 (= 67 + 36) = 248
178.
        (3) The pattern of the number series is:
                                                          187.
                                                                  (1) The pattern of the number series is:
        32 + 1 \times 17 = 32 + 17 = 49
                                                                   12 + 1 \times 23 = 35
        49 + 2 \times 17 = 49 + 34 = 83
                                                                   35 + 2 \times 23 = 35 + 46 = 81
        83 + 4 \times 17 = 83 + 68 = 151
                                                                   81 + 2 \times 46 = 81 + 92 = 173
        151 + 8 \times 17 = 151 + 136 = 287
                                                                   173 + 2 \times 92 = 173 + 184 = 357
        287 + 16 \times 17 = 287 + 272 = 559
                                                                   357 + 2 × 184 = 357 + 368 = 725
        559 + 32 \times 17 = 559 + 544 = 1103
                                                          188.
                                                                  (5) The pattern of the number series is:
179.
        (2) The pattern of the number series is:
                                                                   3 + 97 = 100
        552 - 462 = 90
                                                                   100 + 197 = 297
        650 - 552 = 98
                                                                   297 + 297 = 594
        756 - 650 = 106
                                                                   594 + 397 = 991
        870 - 756 = 114
                                                                  991 + 497 = 1488
        992 - 870 = 122
                                                          189.
                                                                  (3) The pattern of the number series is:
        ∴ ? = 992 + 130 = 1122
                                                                   112 + 1 \times 7 = 119
180.
        (3) The pattern of the number se ries is:
                                                                   119 + 3 \times 7 = 119 + 21 = 140
        28 + 11 = 39
                                                                   140 + 5 \times 7 = 140 + 35 = 175
        39 + 24 (= 11 + 13) = 63
                                                                   175 + 7 \times 7 = 175 + 49 = 224
        63 + 39 (= 24 + 15) = 102
                                                                   224 + 9 \times 7 = 224 + 63 = 287
        102 + 56 (= 39 + 17) = 158
                                                          190.
                                                                  (2) The pattern of the number series is:
        158 + 75 (= 56 + 19) = 233
                                                                  958 - 833 = 125
181.
        (5) The pattern of the number series is:
                                                                   833 - 733 = 100
        7 + 3^2 = 7 + 9 = 16
                                                                   733 - 658 = 75
        16 + 5^3 = 16 + 125 = 141
                                                                   658 - 608 = 50
        141 + 7^2 = 141 + 49 = 190
                                                                   · ? = 608 - 25 = 583
        190 + 9^3 = 190 + 729 = 919
                                                          191.
                                                                  (4) The pattern of the number series is:
        919+ 11<sup>2</sup> = 919 + 121 = 1040
                                                                   11 \times 1 - 1 = 10
182.
        (3) The pattern of the number series is:
                                                                   10 \times 2 - 2 = 18
        12 + 5 \times 1 = 17
                                                                   18 \times 3 - 3 = 51
```

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51 \times 4 - 4 = 200
                                                                 18 \times 4 - 36 = 72 - 36 = 36
        200 \times 5 - 5 = 995
                                                                 36 \times 4 - 42 = 144 - 42 = 102
192.
       (1) The pattern of the number series is:
                                                                 102 \times 4 - 48 = 408 - 48 = 360
        25 \times 2 - 2 = 50 - 2 = 48
                                                                 360 \times 4 - 54 = 1440 - 54 = 1386
        48 \times 2 - 2 = 96 - 2 = 94
                                                         200.
                                                                 (4) The pattern of the number series is:
        94 \times 2 - 2 = 188 - 2 = 186
                                                                 7 \times 2 - 2 = 12
        186 \times 2 - 2 = 372 - 2 = 370
                                                                 12 \times 4 - (2 + 6) = 48 - 8 = 40
        370 \times 2 - 2 = 740 - 2 = 738
                                                                 40 \times 6 - (8 + 10) = 240 - 18 = 222
193. (2) The pattern of the number series is:
                                                                 222 \times 8 - (18 + 14) = 1776 - 32
        14 + 10 = 24
                                                                 = 1744 ± 1742
        24 + 19 (=10 + 9) = 43
                                                                 1744 \times 10 - (32 + 18) = 17440 - 50 = 17390
        43 + 28 (= 19 + 9) = 71
                                                         201.
                                                                 (3) The pattern of the number series is:
                                                                 6 \times 7 + 7^2 = 42 + 49 = 91
        71 + 37 (= 28 + 9) = 108
        108 + 46 (=37 + 9) = 154
                                                                 91 \times 6 + 6^2 = 546 + 36 = 582
194.
                                                                 582 \times 5 + 5^2 = 2910 + 25 = 2935
       (5) The pattern of the number series is:
        144 + 29 = 173
                                                                 2935 \times 4 + 4^2 = 11740 + 16 = 11756
        173 - 33 = 140
                                                                 11756 \times 3 + 3^2 = 35268 + 9 = 35277
        140 + 29 = 169
                                                         202.
                                                                 (5) The pattern of the number series is:
                                                                 9050 - 15^3 = 9050 - 3375 = 5675
        169 - 33 = 136
        136 + 29 = 165
                                                                 5675 - 13^3 = 5675 - 2197 = 3478
195.
       (2) The pattern of the number series is:
                                                                 3478 - 11^3 = 3478 - 1331 = 2147
                                                                 2147 - 9^3 = 2147 - 729 = 1418
        8 + 2 = 10
                                                                 1418 - 7^3 = 1418 - 343 = 1075 \neq 1077
        10 + 8 (= 2 \times 3 + 2) = 18
                                                         203.
        18 + 26 (= 3 \times 8 + 2) = 44
                                                                 (4) The pattern of the number series is:
        44 + 80 (=3 \times 26 + 2) = 124
                                                                 1 = 1
        124 + 242 (= 3 \times 80 + 2) = 366
                                                                 2^2 = 4
                                                                 3^3 = 27 \neq 25
196. (4) The pattern of the number series is:
        13 + 1 \times 12 = 13 + 12 = 25
                                                                 4^4 = 256
                                                                 5^5 = 3125
        25 + 3 \times 12 = 25 + 36 = 61
        61 + 5 \times 12 = 61 + 60 = 121
                                                                 6^6 = 46656
        121 + 7 \times 12 = 121 + 84 = 205
                                                         204.
                                                                 (2) The pattern of the number series is:
                                                                 8424 \div 2 = 4212
        205 + 9 \times 12 = 205 + 108
                                                                 4212 \div 2 = 2106
        = 313
 197.
                                                                  2106 \div 2 = 1053 \neq 1051
       (1) The pattern of the number series is:
                                                                  1053 \div 2 = 526.5
         656
                                                                  526.5 \div 2 = 263.25
          _{2} + 24 = 328 + 24 = 352
                                                          205.
                                                                  (1) The pattern is:
         352
                                                                  5531 - 5506 = 25 = 5^2
                                                                  5555 - 5506 = 49 = 7^2
          2 + 24 = 176 + 24 = 200
                                                                  5506 - 5425 = 81 = 9^2
         200
                                                                  5425 - 5304 = 121 = 11^2
          _{2} + 24 = 100 + 24 = 124
                                                                  5304 - 5135 = 169 = 13^{2}
                                                                  5135 - 4910 = 225 = 15^2
         124
                                                                  4910 - 4621 = 289 = 17^2
          2 + 24 = 62 + 24 = 86
                                                                  Clearly, 5531 is wrong which should be
                                                                  substituted by 5555.
          2 + 24 = 43 + 24 = 67
                                                          206.
                                                                  (2) The pattern is:
                                                                  6 + 1 = 7
 198.
         (3) The pattern of the number series is:
                                                                  7 + 1 \times 2 = 9
         454 + 18 = 472
                                                                  9 + 2 \times 2 = 13
         472 - 27 = 445
                                                                  13 + 8 = 21 \neq 26
         445 + 18 = 463
                                                                  21 + 16 = 37
         463 - 27 = 436
                                                                  37 + 32 = 69
         436 + 18 = 454
                                                          207.
                                                                  (4) The pattern is:
 199.
         (2) The pattern of the number series is:
                                                                  1 \times 1 + 2 = 3
```

 $12 \times 4 - 30 = 48 - 30 = 18$

```
3 \times 2 + 4 = 10
        10 \times 3 + 6 = 36
        36 \times 4 + 8 = 152
        152 \times 5 + 10 = 770 \neq 760
        770 \times 6 + 12 = 4632
208.
      (3) The pattern is:
        4 + 1^3 = 5
        5 + 2^3 = 13
        13 + 3^3 = 40
        40 + 4^3 = 104 \neq 105
        104 + 5^3 = 229
        229 + 6^3 = 445
209.
       (1) The pattern is:
        157.5 \div 3.5 = 45
        45 \div 3 = 15
        15 \div 2.5 = 6
        6 \div 2 = 3
        3 \div 1.5 = 2
        2 \div 1 = 2 \ne 1
210. (2) The pattern is:
        123 + 11 \times 14 = 123 + 154 = 277
        277 + 13 \times 14 = 277 + 182 = 459
        459 + 15 \times 14 = 459 + 210 = 669
        669 + 17 \times 14 = 669 + 238 = 907
        907 + 19 \times 14 = 907 + 266
        = 1173
211. (2) The pattern is:
        456.5 - 407 = 49.5
        407 - 368.5 = 38.5
        368.5 - 341 = 27.5
        341 - 324.5 = 16.5
        \therefore ? = 324.5 - 5.5 = 319
212.
       (1) The pattern is:
        23 + 1 \times 19.2 = 42.2
        42.2 + 2 \times 19.2 = 80.6
        80.6 + 4 \times 19.2 = 157.4
        157.4 + 8 \times 19.2 = 311
        311 + 16 \times 19.2 = 311 + 307.2
        = 618.2
213.
       (5) The pattern is:
        154 - 36 = 118
        232 - 154 = 78
        278 - 232 = 46
        300 - 278 = 22
        \therefore ? - 300 = 6
        ⇒ ? = 306
214.
        (4) The pattern is;
        24 + 8^3 = 24 + 512 = 536
        536 - 7^2 = 536 - 49 = 487
        487 + 6^3 = 487 + 216 = 703
        703 - 5^2 = 703 - 25 = 678
        678 + 4^3 = 678 + 64 = 742
       (3) The pattern is:
215.
        576 - 224 = 352
```

752 - 576 = 176

```
840 - 752 = 88
        884 - 840 = 44
        · ? = 884 + 22 = 906
216.
        (1) The pattern is:
        5 \times 1 + 1^2 = 5 + 1 = 6
        6 \times 2 + 2^2 = 12 + 4 = 16
        16 \times 3 + 3^2 = 48 + 9 = 57
        57 \times 4 + 4^2 = 228 + 16 = 244
217.
       (4) The pattern is:
        12 \times 4 = 48
        48 \times 3.5 = 168
        168 \times 3 = 504
        504 \times 2.5 = 1260
        1260 \times 2 = 2520
218.
        (5) The pattern is:
        4 \times 2 + 1 = 8 + 1 = 9
        9 \times 3 + 2 = 27 + 2 = 29
        29 \times 4 + 3 = 116 + 3 = 119
        119 \times 5 + 4 = 595 + 4 = 599
        599 \times 6 + 5 = 3594 + 5 = 3599
219.
        (3) The pattern is:
        177 - 7 = 170
        170 - 11 = 159
        159 - 13 = 146
        146 - 17 = 129
        129 - 19 = 110
        Note: Consecutive prime numbers have
        been subtracted.
220.
       (3) The pattern is:
        2 + 1^3 = 2 + 1 = 3
        3 + 2^3 = 3 + 8 = 11
        11 + 3^3 = 11 + 27 = 38
        38 + 4^3 = 38 + 64 = 102
        102 + 5^3 = 102 + 125 = 227
        (1) The pattern of the number series is:
221.
        21 \times 0.5 = 10.5
        10.5 \times 1 = 10.5
        10.5 \times 1.5 = 15.75
        15.75 \times 2 = 31.50
        31.50 \times 2.5 = 78.75
222.
        (2) The pattern of the number series is:
        6 + 1 \times 13 = 6 + 13 = 19
        19 + 3 \times 13 = 19 + 39 = 58
        58 + 5 \times 13 = 58 + 65 = 123
        123 + 7 \times 13 = 123 + 91 = 214
        214 + 9 \times 13 = 214 + 117 = 331
        (3) The pattern of the number series is:
223.
        14 + 1 \times 2 = 16
        16 + 3 \times 4 = 16 + 12 = 28
        28 + 5 \times 6 = 28 + 30 = 58
        58 + 7 \times 8 = 58 + 56 = 114
        114 + 9 \times 10 = 114 + 90 = 204
224.
        (4) The pattern of the number series is:
        13.76 + 1 \times 1.15 = 14.91
```

 $14.91 + 2 \times 1.15 = 14 + 2.30 = 17.21$

```
17.21 + 3 \times 1.15 = 17.21 + 3.45 = 20.66

20.66 + 4 \times 1.15 = 20.66 + 4.60 = 25.26

25.26 + 5 \times 1.15 = 25.26 + 5.75 = 31.01

(5) The pattern of the number series is:

15 + 1^2 = 16

16 + 2^3 = 16 + 8 = 24

24 + 3^2 = 24 + 9 = 33

33 + 4^3 = 33 + 64 = 97

97 + 5^2 = 97 + 25 = 122
```

226. (5) The pattern is: $2 \times 3 = 6$ $6 \times 2.5 = 15$ $15 \times 2 = 30$ $30 \times 1.5 = 45$ $45 \times 1 = 45 \neq 43.5$

225.

227. (3) The pattern is: $950 - 661 = 289 = 17^2$ $661 - 436 = 225 = 15^2$ $436 - 269 = 167 \neq 13^2$ $436 - 267 = 169 = 13^2$ $267 - 146 = 121 = 11^2$ $146 - 65 = 81 = 9^2$

 $45 \times 0.5 = 22.5$

228. (5) The pattern is: 6.5 + 5.3 = 11.8 $11.8 + 2 \times 5.3 = 11.8 + 10.6 = 22.4$ $22.4 + 3 \times 5.3 = 22.4 + 15.9 = 38.3$ $38.3 + 4 \times 5.3 = 38.3 + 21.2 = 59.5$ $59.5 + 5 \times 5.3 = 59.5 + 26.5 = 86$ \neq **87.3**

 $86 + 6 \times 5.3 = 86 + 31.8 = 117.8$ 229. (5) The pattern is: $1 \times 3 - 1 = 2$

 $2 \times 3 - 2 = 4$ $4 \times 3 - 3 = 9$ $9 \times 3 - 4 = 23$

 $23 \times 3 - 5 = 69 - 5 = 64 \neq 69$ $64 \times 3 - 6 = 192 - 6 = 186$

230. (5) The pattern is: 250 - 11 = 239

 $239 - (11 \times 2 + 1) = 239 - 23 = 216$ $216 - (11 \times 3 + 2) = 216 - 35 = 181$

 $181 - (11 \times 4 + 3)$ $= 181 - 47 = 134 \neq 136$ $134 - (11 \times 5 + 4)$ = 134 - 59 = 75 $75 - (11 \times 6 + 58)$ = 75 - 71 = 4

 $154 \times 5 + 2 = 772$

SBI PO EXAMS

1. (3) The series is based on following pattern: $3 \times 1 + 2 = 5$ $5 \times 2 + 2 = 12$ $12 \times 3 + 2 = 38$ $38 \times 4 + 2 = 154$

 $772 \times 6 + 2 = 4634$

Therefore, the number 914 is wrong.

 \therefore According to question, the new series is as follows:

 $914 \times 1 + 2 = 916$ $916 \times 2 + 2 =$ **1834** $1834 \times 3 + 2 = 5504$

Therefore, the required number is 1834.

2. (3) The series is based on following pattern:

 $3 \times 1 + 1 = 4$ $4 \times 2 + 2 = 10$ $10 \times 3 + 3 = 33$ $33 \times 4 + 4 = 136$ $136 \times 5 + 5 = 685$ $685 \times 6 + 6 = 4116$

Therefore, the number 34 is wrong.

 \therefore According to question, the new series starts from the number 34 in the same pattern.

 $34 \times 1 + 1 = 35$ $35 \times 2 + 2 = 72$

Hence, the number 72 is required answer.

3. (4) The series is based on following pattern:

 $(2)(14)^2 = 18$ $(14)^2 = 162$ $(16)^2 = 162$ $(16)^2 = 62$ $(16)^2 = 126$ $(16)^2 = 126$ $(16)^2 = 126$ $(16)^2 = 126$ $(16)^2 = 126$ $(16)^2 = 126$ $(16)^2 = 126$

Therefore the number 143 is wrong.

: According to question, the new series starts from the number 143 in

 $143 - (14)^2 = -53$ $-53 + (12)^2 =$ **91**

Hence, the number 91 is required answer.

4. (5) The series in based on following pattern:

 $160 \times 0.5 = 80$ $80 \times 1.5 = 120$ $120 \times 2.5 =$ **300** $300 \times 3.5 = 1050$ $1050 \times 4.5 = 4725$ $4725 \times 5.5 = 25987.5$

Therefore, the number 180 is wrong.

 \therefore According to question, the new series starts from the number 180 in the same pattern:

 $180 \times 0.5 = 90$ $90 \times 1.5 =$ **135**

Hence, the number 135 is required answer.

(1) The series is based on following pattern:

 $2 + 1^2 - 0 = 3$ $3 + 2^2 - 1 = 6$ $6 + 3^2 - 2 = 13$ $13 + 4^2 - 3 = 26$ $26 + 5^2 - 4 = 47$

5.

$$47 + 6^2 - 5 = 78$$

Therefore, the number 7 is wrong. According to question, the new series starts from the number 7 in the same pattern.

$$7 + 1^1 - 0 = 8$$

8 + $2^2 - 1 = 11$

Hence, the number 11 is required answer.

- 6. (4) The series is based on following pattern:
 - $2 \times 1 + 1^2 = 3$
 - $3 \times 2 + 2^2 = 10$
 - $10 \times 3 + 3^2 = 39$
 - $39 \times 4 + 4^2 = 172$
 - $172 \times 5 + 5^2 = 885$

Similarly, the new series is as follows:

- $1 \times 1 + 12 = 2....(a)$
- $2 \times 2 + 2^2 = 8.....(b)$
- $8 \times 3 + 3^2 = 33$ (c)

Therefore, the number 8 will come in place

- 7. (2) The series is based on the following pattern:
 - $5 \times 1 + 2 = 7$
 - $7 \times 2 4 = 10$
 - $10 \times 3 + 6 = 36$
 - $36 \times 4 8 = 136$
 - $136 \times 5 + 10 = 690$

Similarly, the new series is as follows:

....(a)

- $2 \times 1 + 2 = 4$
- $4 \times 2 4 = 4$(b)
- $4 \times 3 + 6 = 18$(c)
- $18 \times 4 8 = 64$(d)

64 × 51 + 10 = 330(e)

Therefore, the number 330 will come in palce of (e).

- 8. (5) The series is based on following pattern:
 - $8 \times 0.5 = 4$
 - $4 \times 1.5 = 6$
 - $6 \times 2.5 = 15$
 - $15 \times 3.5 = 52.6$
 - $52.5 \times 4.5 = 236.25$

Therefore, the number 236.25 will come in place of (d).

- 9. (3) Interchanging (3) and (5)
- 10. (3) Interchanging (3) and (5)

- 11. $2 \times 1 + (1)^2 = 3$

- $3 \times 2 (2)^2 = 2$ $2 \times 3 + (3)^2 = 15$ $15 \times 4 - (4)^2 = 44$ $44 \times 5 + (5)^2 = 245$ $245 \times 6 - (6)^2 = 1434$
- Similarly,
- $3 \times 1 + (1)^2 = 4$(a)
- $4 \times 2 (2)^2 = 4$
-(b)(c)
- $4 \times 3 + (3)^2 = 21$
- $21 \times 4 (4)^2 = 68$(d)
- Therefore, the 21 will come in place of (c).
- (5) The series is based on following pattern 12.
 - $1 \times 1 + (1)^2 = 2$
 - $2 \times 2 + (2)^2 = 8$
 - $8 \times 3 + (3)^2 = 33$
 - $33 \times 4 + (4)^2 = 148$
 - $148 \times 5 + (5)^2 = 765$
 - $765 \times 6 + (6)^2 = 4626$
 - Similarly,
 - $2 \times 1 + (1)^2 = 3$(a)
 - $3 \times 2 + (2)^2 = 10$(b)
 - $10 \times 3 + (3)^2 = 39$(c)
 - $39 \times 4 + (4)^2 = 172$(d)

Therefore, the number 172 will come in place of (d).

- 13. (5) The series is based on following pattern:
 - $2 \times 2 + 0.5 = 4.5$
 - $4.5 \times 2 + (0.5) \times 4 = 11$
 - $11 \times 2 + 2 \times 4 = 30$
 - $30 \times 2 + 8 \times 4 = 92$
 - $92 \times 2 + 32 \times 4 = 312$
 - $312 \times 2 + 128 \times 4 = 1136$
 - Similarly,
 - $1 \times 2 + 0.5 = 2.5$ (a)
 - $2.5 \times 2 + (0.5) \times 4 = 7 \dots (b)$

Therefore, the number 7 wil come in place of (b)

14. (1)

> In the given series 176 should be replace br 174.238 will come in place of (e)

- 15. (3)
- (4) The series is based on following pattern

22. (2) The given series is based on the following pattern:

In the given series 7 should be replaced by 5. and 277 should come in place of (f).

16. (1) The given number series is based on the following pattern

Hence the wrong number is 6

17. (2) The given number series is based on the following pattern:

Hence, the wrong number is 75

18. (4)The given number series is basei on the following pattern

$$4 - 3 = 1^{2}$$
 $13 - 4 = 9 = 32$
 $38 - 13 = 25 = 5^{2}$
 $87 - 38 = 49 = 7^{2}$
 $168 - 87 = 81 = 9^{2}$

 $289 - 168 = 121 = 11^{2}$

Obviously, 166 is the wrong number.

19. (3) The number series follows the rule as mentioned below:

Hence 29 is the wrong number.

20. (5) The followed pattern is:

Hence the wrong number is 176

21. (4) The given series is based on the following pattern

$$2 \times 3 = 6$$

 $6 \times 3 = 18$
 $18 \times 6 \neq 10^{9}$

$$18 \times 6 \neq 109 \text{ but } 108$$

 $108 \times 18 = 1944$

Obviously, 109 is the wrong number and it should be replaced with 108.

Obviously, 39 is the wrong number and it should be replaced with 37.

23. (1) The given series is based on the following pattern:

$$2 \times 2 + 7 = 11 \text{ (not 13)}$$

 $11 \times 3 - 6 = 27$
 $27 \times 4 + 5 = 113$
 $113 \times 5 - 4 = 561$

Obviously the number 13 is wrong and it should be replaced with 11.

24. (4) The given series is based on the following pattern.

$$50 + (1^2) = 51$$

 $51 - (2^2) = 47$
 $47 + (3^2) = 56$
 $56 - (4^2) = 40 \text{ (not } 42)$
 $40 + (5^2) = 65$

Obviously, the number 42 is wrong and it should be replaced with 40.

25. (3) The given series is based on the following pattern:

$$3 \times 2 + 3 = 9$$

 $9 \times 3 - 4 = 23$
 $23 \times 4 + 5 = 97 \text{ (not } 99)$
 $97 \times 5 - 6 = 479$

Obviously, the number 99 is wrong and it should be replaced with 97.

26. (1) The given series is based on the following pattern:

Obviously, the number 4 is wrong and it should be replaced with 3.

27. (2) The given series is based on the following pattern:

Similarly,

Hence, 163 will come in place of (b).

28. (1) The give n se rie s is base d on the following pattern

$$13 = 4 \times 1 + 1 \times 9$$

$$40 = 13 \times 2 + 2 \times 7$$

$$135 = 40 \times 3 + 3 \times 5$$

$$552 = 135 \times 4 + 4 \times 3$$

$$2765 = 552 \times 5 + 5 \times 1$$

Similarly,

(a) =
$$2 \times 1 + 1 \times 9 = 11$$

(b) =
$$11 \times 2 + 2 \times 7 = 36$$

(c) =
$$36 \times 3 + 3 \times 5 = 123$$

Hence, 123 will come in place of (c).

29. (3) The given series is based on the following 33. pattern:

Similarly,

Hence, 4 will come in place of (d).

30. (4) The given series is based on the following pattern:

7, 11, 13, 17, 19, are consecutive prime numbers)
Similarly,

Hence, 159 will come in place of (d).
31. (3) The given series is based on the following pattern:

Similarly,

Hence, 22.5 will come in place of (c). **32.** (3) The given series is based on the following the following that the series is based on th

(3) The given series is based on the following pattern:

$$9 \times 2 + 1.5 = 19.5$$

$$19.5 \times 2 + 2 = 41$$

$$41 \times 2 + 2.5 = 84.5$$

Therefore, the new series is as follows:

$$12 \times 2 + 1.5 = 25.5$$
(a)

$$25.5 \times 2 + 2 = 53$$
(b)

$$53 \times 2 + 2.5 =$$
108.5(c)

$$108.5 \times 2 + 3 = 220$$
(d)

$$220 \times 2 + 3.5 = 443.5$$
(e)

Therefore, the number 108.5 will come in place of (C) in the new series.

(1) The series is based on following pattern:

$$4 \times 1 + 1 = 5$$

$$\downarrow + 3$$
$$5 \times 4 + 2 = 22$$

$$22 \times 9 + 3 = 201$$

Similarly the new series is as follows:

$$7 \times 1 + 1 = 8$$
(a)

$$8 \times 4 + 2 = 4$$
(b)

$$34 \times 9 + 3 = 309$$
(c)

$$309 \times 16 + 4 = 4948 \dots (d)$$

Therefore, the number 4948 will come in place of (d) in the new series.

(2) The series is based on following pattern:

$$5 \times 1 + 0.25 \times 1 = 5.25$$

34.

35.

$$5.25 \times 2 + 0.25 \times 4 = 11.5$$

$$\downarrow$$
 + 5

$$11.5 \times 3 + 0.25 \times 9 = 36.75$$

Similarly, the new series is as follows.

$$3 \times 1 + 0.25 \times 1 = 3.25$$
(a)

$$3.25 \times 2 + 0.25 \times 4 = 7.5$$
(b)

$$7.5 \times 3 + 0.25 \times 9 =$$
24.75(c)

Therefore, the number 24.75 will come in place of (c) in the new series.

(4) The series is based on following pattern:

$$38 \times 0.5 = 19$$

$$19 \times 1.5 = 28.5$$

$$28.5 \times 2.5 = 71.25$$

Similarly, the new series is as follows:

$$18 \times 0.5 = 9$$
(a)

$$9 \times 1.5 = 13.5$$
(b)

$$13.5 \times 2.5 = 33.75 \dots (c)$$

$$33.75 \times 3.5 = 118.125....(d)$$

Therefore, the number 118.125 will come

in place of (d) in the new series.

36. (3) The series is based on following pattern:

$$25 + (11)^2 \Rightarrow 25 + 121 = 146$$

 $146 - (9)^2 \Rightarrow 146 - 81 = 65$
 $65 + (7)^2 \Rightarrow 65 + 49 = 114$

Similarly, the new series is as follows:

$$39 + (11)^2 \Rightarrow 39 + 121$$

$$160 - (9)^2 \Rightarrow 160 - 81$$

$$= 79 \dots (b)$$

$$79 + (7)^2 \Rightarrow 79 + 49$$

$$128 + (5)^2 \Rightarrow 128 - 25$$

$$= 103 \dots (d)$$

$$103 + (3)^2 \Rightarrow 103 + 9$$

Therefore, the number 112 will come in place of (e) in new series.

37. (1) The given series is based on following pattern

Obviously, 35 is wrong number.

38. (5) Here the middle number = difference of succeeding number and preceding number.

i.e.,
$$4 - 1 = 3$$

$$7 - 3 = 4$$

$$11 - 4 = 7$$

$$18 - 7 = 11$$

$$27 - 11 = 16$$

Here the sequence gets disturbed

$$\therefore 29 - 11 = 18$$

Hence, 27 is the wrong number.

39. (5) The sequence is based on following pattern:

$$3 \times 0.5 + 0.5 = 2$$

$$2 \times 1 + 1 = 3$$

$$3 \times 1.5 + 1.5 = 6$$

$$6 \times 2 + 2 = 14$$

$$14 \times 2.5 + 2.5 = 37.5$$

$$37.5 \times 3 + 3 = 115.5$$

Obviously, 12 is the wrong number.

40. (4) $32431 = 7 \times 4626 + 7^2$

$$4626 = 6 \times 765 + 6^2$$

$$765 = 5 \times 148 + 5^2$$

$$148 = 4 \times 32 + 4^2$$

But
$$148 = 4 \times 33 + 4^2$$

$$33 = 3 \times 8 + 3^2$$

$$8 = 2 \times 2 + 2^2$$

Obviously 32 is the wrong number.

41. (2) The sequence is based on following pattern:

$$3 - 2 = 1^3$$

$$11 - 3 = 8 = 2^3$$

$$38 - 11 = 27 = 3^3$$

$$102 - 38 = 64 = 4^3$$

But.

$$229 - 102 = 127 \neq 5^3$$

$$227 - 102 = 125 = 5^3$$

$$443 - 227 = 216 = 6^3$$

Obviously 229 is the wrong number.

42. (5) The given number series is based on the following pattern:

 $7413 + 9 \times 1 = 7422$

$$7422 + 9 \times 2 = 7440$$

$$7440 + 9 \times 3 = 7467$$

$$7467 + 9 \times 4 = 7503$$

Hence, 7467 will replace the question mark.

43. (4) The given number series is based on the following pattern:

$$4 = 2^2$$
; $16 = 4^2$;

$$36 = 6^2$$
; $64 = 8^2$;

$$100 = 10^2$$
.

$$\therefore$$
 ? = 12² = **144**

Hence, 144 will replace the question mark.

44. (1) The given number series is based on the following pattern:

$$12 \times 3 - 3 = 33$$

$$33 \times 3 - 3 = 96$$

$$285 \times 3 - 3 = 852$$

Hence, 285 will replace the question mark.

45. (3) The given number series is based on the following pattern:

 $70000 \div 5 = 14000$

$$14000 \div 5 = 2800$$

$$560 \div 5 = 112$$

$$112 \div 5 = 22.4$$

Hence, 560 will replace the question mark.

46. (2) The given number series is based on the following pattern :

$$99 + 5 = 104$$

$$97 + 9 = 106$$

Hence, 95 will replace the question mark.

47. (4) The given number series is based on the following pattern

$$93 + 2$$
 (prime number) = 95

$$95 + 3 = 98 \neq 99$$

$$98 + 5 = 103$$

55.

103 + 7 = 110 110 + 11 = 121121 + 13 = 134

Hence, 103 will replace the question mark

48. (5) The given number series is based on the following pattern:

 $8 \times 1.5 = 12$ $12 \times 1.5 = 18$ $18 \times 1.5 = 27 \neq 26$ $27 \times 1.5 = 40.5$ $40.5 \times 1.5 = 60.75$

 \therefore ? = 60.75 × 1.5 = **91.125**

Hence, 91.125 will replace the question mark.

49. (5) The given number series is based on the following pattern: 4 + 7 = 1111 + 7 = 18

 $18 + 11 = 29 \neq 28$ $\therefore ? = 29 + 18 = 47$

Hence, 47 will replace the question mark.

50. (1) The given number series is based on the following pattern:

 $3 \times 2 + 2^2 = 10$ $10 \times 3 + 3^2 = 39$ $39 \times 4 + 4^2 = 172$ $172 \times 5 + 5^2 = 885 \neq 886$ $885 \times 6 + 6^2 = 5346$

Hence, 39 will replace the question mark.

51. (3) The given number series is based on the following pattern:

 $15 \times 1 + 1 \times 7 = 22$ $22 \times 2 + 2 \times 6 = 56 \neq 57$ $56 \times 3 + 3 \times 5 = 183$ $183 \times 4 + 4 \times 4 = 748$ $748 \times 5 + 5 \times 3 = 3755$ $3755 \times 6 + 6 \times 2 = 22542$

Hence, 748 will replace the question mark.

- 52. (4) The pattern of the number series is : $3601 \div 1 + 1 = 3602$ $3602 \div 2 + 2 1801 + 2 = 1803$ $1803 \div 3 + 3 601 + 3 604$ $604 \div 4 + 4 = 151 + 4 = 155 \ne 154$ $155 \div 5 + 5 = 31 + 5 = 36$ $36 \div 6 + 6 = 6 + 6 = 12$
- 53. (2) The pattern of the number series is : $4 \times 2 + 2^2 = 8 + 4 = 12$ $12 \times 3 + 3^2 = 36 + 9 = 45 \neq 42$ $45 \times 4 + 4^2 = 180 + 16 = 196$ $196 \times 5 + 5^2 = 980 + 25 = 1005$ $1005 \times 6 + 6^2 = 6030 + 36 = 6066$
- 54. (1) The pattern of the number series is : $2 + 4 = 6 \neq 8$ 6 + 6 = 12 12 + 8 = 2020 + 10 = 30

30 + 12 = 42

(5) The pattern of the number series is:

 $32 \times \frac{1}{2} = 16$

16 × ₂ = 24 5

 $24 \times \frac{2}{2} = 60 \neq 65$

60 × ₂ = 210

 $210 \times \frac{}{2} = 945$ 11

945 × ₂ = 5197.5

56. (4) The pattern of the number series is:

 $7 \times 2 - 1 = 14 - 1 = 13$ $13 \times 2 - 1 = 26 - 1 = 25$ $25 \times 2 - 1 = 50 - 1 = 49$ $49 \times 2 - 1 = 98 - 1 = 97$

 $97 \times 2 - 1 = 194 - 1 = 193 \neq 194$

 $193 \times 2 - 1 = 386 - 1 = 385$

57. (1) The pattern of the given series Is:

 $37 \times 0.5 + 0.5 = 18.5 + 0.5 = 19$

 $19 \times 1 + 1 = 19 + 1 - 20$

 $20 \times 1.5 + 1.5 = 30 + 1.5 - 31.5$

 $31.5 \times 2 + 2 = 63 + 2 = 65$

 $65 \times 2.5 + 2.5 = 162.5 + 2.5 - 165$

Similarly,

 $21 \times 0.5 + 0.5 = 10.5 + 0.5 = 11(a)$

 $11 \times 1 + 1 = 11 + 1 = 12$ (b)

 $12 \times 1.5 + 1.5 = 18 + 1.5 = 19.5$ (c)

 $19.5 \times 2 + 2 = 39 + 2 = 41$ (d)

 $41 \times 2.5 + 2.5 = 102.5 + 2.5 =$ **105** (e)

58. (2) The pattern of the given series is:

 $5 \times 1 + 1^2 = 5 + 1 = 6$ $6 \times 2 + 2^2 = 12 + 4 = 16$

 $16 \times 3 + 3^2 = 48 + 9 = 57$

 $57 \times 4 + 4^2 = 228 + 16 = 244$

 $244 \times 5 + 5^2 = 1220 + 25 = 1245$

Similarly,

 $9 \times 1 + 1^2 = 9 + 1 = 10$ (a)

 $11 \times 2 + 2^2 = 22 + 4 = 26$ (b) $26 \times 3 + 3^2 = 78 + 9 = 87$ (c)

 $87 \times 4 + 4^2 = 348 + 16 = 364$ (d)

59. (3) The pattern of the given series is:

 $7 \times 1 - 2 = 7 - 2 = 5$

 $5 \times 3 - 4 = 15 - 4 = 11$

11 × 5 - 6 = 55 - 6 = 49

49 × 7 - 8 = 343 - 8 = 335

 $335 \times 9 - 10 = 3015 - 10 = 3005$ Similarly,

$$13 \times 1 - 2 = 13 - 2 = 11$$
 (a) $11 \times 3 - 4 = 33 - 4 = 29$ (b)

60. (4) The pattern of the given series is: $12 \times 3 + 11 = 36 + 11 = 47$ $47 \times 3 + 11 = 141 + 11 = 152$ $152 \times 3 + 11 = 456 + 11 = 467$ $467 \times 3 + 11 = 1401 + 11 = 1412$ $1412 \times 3 + 11 = 4236 + 11 = 4247$ Similarly, $33 \times 3 + 11 = 99 + 11 = 110$ (a) $110 \times 3 + 11 = 330 + 11 = 341$ (b) $341 \times 3 + 11 = 1023 + 11 = 1034$ (c) $1034 \times 3 + 11 = 3102 + 11$

= **3113** (d) 61. (5) The pattern of the given series is: $68 \times 1 - 8 = 60$ $60 \times 1.5 + 14 = 90 + 14 = 104$ $104 \times 2 - 20 = 208 - 20 = 188$ $188 \times 2.5 + 26 = 470 + 26 = 496$ $496 \times 3 - 32 = 1488 - 32 = 1456$ Similarly, $42 \times 1 - 8 = 42 - 8 = 34$ (a) $34 \times 1.5 + 14 = 51 + 14 = 65$ (b) $65 \times 2 - 20 = 130 - 20 = 110$ (c)

RBI GRADE-B OFFICER EXAMS

1. (4)The given series is based on the following pattern:

 $110 \times 2.5 + 26 = 275 + 26 = 301$ (d)

- 2. (5) The given series is based on the following pattern:
- 3. (3) The given series is based on the following pattern:
- 4. (2) 30 (According to question)
- 5. (1) The given series is based on the following pattern:
- 6. (5) The given series is based on the following pattern:

He nce, 119 will come in place of the question mark.

7. (3) The given series is based on the following pattern:

Hence, 62.72 will come ir place of the question mark.

8. (4) The given series is based on the following pattern:

Hence, 2211 will come in place of the question mark.

9. (1) The given series is based on the following pattern:

Numbers are cubes of consecutive prime numbers, i.e.

 $11^3 = 1331$ $13^3 = 2197$ $17^3 = 4913$

 $19^3 = 6859$

 23^3 = **12167** 29^3 = 24389

Hence, 12167 will come in place of the question mark.

10. (2) The given series is based on the following pattern

Hence, 7.4 will come in place of the question mark.

11. (3) The given number series is based on the following pattern:

 $13 \times 1 + 1 = 14$ $14 \times 2 + 2 = 30$ $30 \times 3 + 3 = 03$

 $30 \times 3 + 3 = 93$ $93 \times 4 + 4 = 376$

 $376 \times 5 + 5 = 1885$

 \therefore ? = 1885 × 6 + 6 = **11316**

Hence, number 11316 will replace the question mark.

12. (2)

13. (4)

20.

(d) \Rightarrow 196 × 5 + 5² = 980 + 25 = **1005**

(3) The pattern of the given series is:

 $8 \times 1 + 1 = 9$

```
9 \times 2 + 2 = 20
                                                                           20 \times 3 + 3 = 63
14.
         (1)
                                                                           63 \times 4 + 4 = 256
                                                                           Similarly,
                                                                           (a) \Rightarrow 5 × 1 + 1 = 6
                                                                           (b) \Rightarrow 6 × 2 + 2 = 14
15.
                                                                           (c) \Rightarrow 14 × 3 + 3 = 45
         705 + 1 \times 23 = 728
                                                                           (d) \Rightarrow 45 × 4 + 4 = 184
         728 + 2 \times 23 = 774
         774 + 3 \times 23 = 843
                                                                           (e) \Rightarrow 184 × 5 + 5 = 925
         843 + 4 \times 23 = 935
                                                                  21.
                                                                           (3) The pattern of the number series is:
                                                                           4 \times 0.5 + 1 = 2 + 1 = 3
         935 + 5 \times 23 = 1050
                                                                           3 \times 1 + 1.5 = 3 + 1.5 = 4.5
         \therefore? = 1050 + 6 × 23 = 1050 + 138 = 1188
                                                                           4.5 \times 1.5 + 2 = 6.75 + 2
16.
         (4) The pattern of the given series is:
                                                                           = 8.75 \neq 8.5
         5 \times 1.5 + 1.5 = 7.5 + 1.5 = 9
                                                                           8.75 \times 2 + 2.5 = 17.5 + 2.5 = 20
         9 \times 2.5 + 2.5 = 22.5 + 2.5 = 25
                                                                           20 \times 2.5 + 3 = 50 + 3 = 53
         25 \times 3.5 + 3.5 = 87.5 + 3.5 = 91
                                                                  22.
                                                                           (2) The pattern of the number series is:
         91 \times 4.5 + 4.5 = 409.5 + 4.5 = 414
                                                                            12000 \pm 5 - 5 = 2400 - 5 = 2395
         Similarly,
                                                                           2395 \div 5 - 5 = 479 - 5
         (a) \Rightarrow 3 × 1.5 + 1.5 = 4.5 + 1.5 = 6
                                                                           = 474 ± 472
         (b) \Rightarrow 6 × 2.5 + 2.5 = 15 + 2.5 = 17.5
                                                                           474 \div 5 - 5 = 94.8 - 5 = 89.8
         (c) \Rightarrow 17.5 × 3.5 + 3.5 = 61.25 + 3.5 = 64.75
                                                                           89.8 \div 5 - 5 = 17.96 - 5 = 12.96
17.
         (2) The pattern of the given se ries is:
                                                                  23.
                                                                           (5) The pattern of the number series is:
         15 \times 1 - 1 \times 6 = 15 - 6 = 9
                                                                           1 \times 1 + 7 \times 1 = 1 + 7 = 8
         9 \times 2 - 2 \times 5 = 18 - 10 = 8
                                                                           8 \times 2 + 6 \times 2 = 16 + 12 = 28
         8 \times 3 - 3 \times 4 = 24 - 12 = 12
                                                                           28 \times 3 + 5 \times 3 = 84 + 15 = 99
         12 \times 4 - 4 \times 3 = 48 - 12 = 36
                                                                           99 \times 4 + 4 \times 4 = 396 + 16 = 412
         36 \times 5 - 5 \times 2 = 180 - 10 = 170
                                                                           412 \times 5 + 3 \times 5 = 2060 + 15 = 2075
         Similarly,
                                                                           2075 \times 6 + 2 \times 6 = 12450 + 12
         (a) \Rightarrow 19 × 1 - 1 × 6 = 19 - 6 = 13
                                                                           = 12462 ± 12460
         (b) \Rightarrow 13 \times 2 - 2 \times 5 = 26 - 10 = 16
                                                                  24.
                                                                           (1) The pattern of the number series is:
18.
         (1) The pattern of the given series is:
                                                                           144 \times 1.5 = 216 \neq 215
         7 \times 1 - 1 = 6
                                                                           216 \times 2.5 = 540
         6 \times 2 - 2 = 10
                                                                           540 \times 3.5 = 1890
         10 \times 3 - 3 = 27
                                                                            1890 \times 4.5 = 8505
         27 \times 4 - 4 = 104
                                                                           8505 \times 5.5 = 46777.5
         104 \times 5 - 5 = 515
                                                                           (5) The pattern of the number series is:
                                                                  25.
         Similarly,
                                                                           2222 - 7^3 = 2222 - 343 = 1879
         (a) \Rightarrow 9 × 1 - 1 = 8
                                                                           1879 - 6^3 = 1879 - 216 = 1663
         (b) \Rightarrow 8 × 2 - 2 = 14
                                                                            1663 - 5^3 = 1663 - 125 = 1538
                                                                            1538 - 4^3 = 1538 - 64 = 1474
         (c) \Rightarrow 14 × 3 - 3 = 39
                                                                           1474 - 3^3 = 1474 - 27 = 1447
         (d) \Rightarrow 39 × 4 - 4 = 152
                                                                           1447 - 2^3 = 1447 - 8
19.
         (5) The pattern of the given series is:
                                                                           = 1439 \neq 440
         6 \times 2 + 2^2 = 12 + 4 = 16
                                                                  26.
                                                                           (4) The pattern is:
         16 \times 3 + 3^2 = 48 + 9 = 57
                                                                           2^3 + 1^2 = 9
         57 \times 4 + 4^2 = 228 + 16 = 244
                                                                           3^3 + 2^2 = 31
         Similarly,
                                                                           4^3 + 3^2 = 73
         (a) \Rightarrow 4 × 2 + 2<sup>2</sup> = 8 + 4 = 12
                                                                           5^3 + 4^2 = 141
         (b) \Rightarrow 12 × 3 + 3<sup>2</sup> = 36 + 9 = 45
                                                                           6^3 + 5^2 = 241
         (c) \Rightarrow 45 × 4 + 4<sup>2</sup> = 180 + 16 = 196
                                                                  27.
                                                                           (4) The pattern is:
```

- (3) The pattern is: 28. $130 + 3^2 = 139$ $139 + 4^2 = 155$ $155 + 5^2 = 180$ $180 + 6^2 = 216$ $216 + 7^2 =$ **265**
- 29. (2) The pattern is: 658 + 72 = 730730 + 144 = 874874 + 288 = 11621162 + 576= **1738**

30.

(2) The pattern is: 14 + 990 = 1004990 = 12021004 +198 4 = 1251.5 1202 + $=\frac{49.5}{}$ = 1268 1251.5 + 16.5

- 31. (3) The pattern is: 576 - 224 = 352 752 - 576 = 176840 - 752 = 88884 - 840 = 44· ? = 884 + 22 = **906**
- 32. (4) The pattern is: 55 + 11.15 = 66.15 $66.15 + 2 \times 11.15 = 88.45$ $88.45 + 3 \times 11.15 = 121.9$ $121.9 + 4 \times 11.15 = 166.5$ $166.5 + 5 \times 11.15$ = 166.5 + 55.75 = **222.25**
- 33. (5) The pattern is 36 + 13 = 49 $49 + 2 \times 13 = 75$ 75 + 13 = 88 $88 + 2 \times 13 = 114$ 114 + 13 = **127**

 $37 + 4 \times (2)^2 = 53$

53 + 11 = 64

INSURANCE EXAMS

1. (2) The series is based on following pattern: $3 + 4 \times (2)^{\circ} = 7$ 7 + 11 = 18 $18 + 4 \times (2)^{1} = 26$ 26 + 11 = **37**

$$64 + 4 \times (2)^3 = 96$$

Therefore, the number 37 will come in place of question mark (?) in the series.

2. (3) The series is based on following pattern:

$$1.7 + 1.5 = 3.2$$

 $3.2 - 0.5 = 2.7$
 $2.7 + 1.5 = 4.2$
 $4.2 - 0.5 = 3.7$
 $3.7 + 1.5 =$ **5.2**
 $5.2 - 0.5 = 4.7$
 $4.7 + 1.5 = 6.2$

Therefore, the number 5.2 will come in place of question mark (?) in the series.

(3) The original series is based on following 3. pattern:

Therefore, the number 28 is wrong. Hence, the new series is as follows:

$$28 \times {}_{2} = 14$$
2nd term
 $14 \times 1 = 14$ 3rd term
 $14 \times 1.5 =$ **21 - 4**th term

Therefore, the fourth term of new series is

4. (2) The original series is based on following pattern:

$$17 + 0.25 \times (1)^2 = 17.25$$

 $17.25 + 0.25 \times (2)^2 = 18.25$
 $18.25 + 0.25 \times (3)^2$
= **20.50**
 $20.50 + 0.25 \times (4)^2 = 24.50$
 $24.50 + 0.25 \times (5)^2 = 30.75$

Therefore, the number 20.75 is wrong.

Hence, the new series is as follows: $20.75 + 0.25 \times 1^2 = 21.00 \dots 2nd \text{ term}$ $21.00 + 0.25 \times (2)^2 = 22.00 \dots 3^{rd} \text{ term}$

 $22.00 + 0.25 \times (3)^2 = 24.25$ 4th term

Therefore, the fourth term of the new series

(1) The original series is based on following pattern:

$$438 + (7)^2 = 487$$

 $487 - (6)^2 = 451$
 $451 + (5)^2 = 476$
 $476 + (4)^2 = 460$
 $460 + (3)^2 = 469$

5.

Therefore, the number 447 is wrong. Hence the new series is as follows:

$$447 + (7)^2 = 496 \dots 2^{nd} \text{ term}$$

$$496 - (6)^2 = 460 \dots 3^{rd} \text{ term}$$

$$460 + (5)^2 = 485 - 4^{th} term$$

$$485 - (4)^2 = 469$$

Therefore, the fourth term of the new series is 485.

6. (5) The original series is based on following pattern:

$$2 \times 2 + 3 = 7$$

$$7 \times 2 + 5 = 19$$

$$19 \times 2 + 7 = 45$$

$$45 \times 2 + 9 = 99$$

$$99 \times 2 + 11 = 209$$

$$209 \times 2 + 13 = 431$$

Therefore, the number 18 is wrong.

Hence, the new series is as follows:

$$18 \times 2 + 3 = 39 - 2$$
nd term

$$39 \times 2 + 5 = 83$$
 — 3^{rd} term

$$83 \times 2 + 7$$
 = **173 - 4**th **term**

$$173 \times 2 + 9 = 355$$

Therefore, the fourth term of the new series is 173.

7. (4) The original series is based on following pattern:

$$6 \times 1 + 1 \times 2 = 8$$

$$8 \times 2 - 2 \times 3 = 10$$

$$10 \times 3 + 3 \times 4 = 42$$

$$42 \times 4 - 4 \times 5 = 148$$

$$148 \times 5 + 5 \times 6 = 770$$

$$770 \times 6 - 6 \times 7 = 4578$$

Therefore, the number 146 is wrong.

Hence, the new series is as follows:

$$146 \times 1 + 1 \times 2 = 148$$

 $= 2^{nd} term$

$$148 \times 2 - 2 \times 3$$

$$= 290 -- 3^{rd} term$$

$$290 \times 3 + 3 \times 4$$

= 882 - 4th term

Therefore, the fourth term of the new series is 882.

8. (1) The given number series is based on the following pattern

Hence the wrong number is 6.

9. (2) The given number series is based on the following pattern:

Hence, the wrong number is 75.

10. (4) The given number series is based on the following pattern:

$$4 - 3 = 1^2$$

$$13 - 4 = 9 = 3^2$$

$$38 - 13 = 25 = 5^2$$

$$87 - 38 = 49 = 7^2$$

$$168 - 87 = 81 = 9^2$$

$$289 - 168 = 121 = 11^{2}$$

Obviously, 166 is the wrong number.

11. (3) The number series follows the rule as mentioned below:

Hence 29 is the wrong number.

12. (5) The followed pattern is:

Hence the wrong number is 176.

13. (5) The pattern of the number series is:

$$3 + 7^2 = 3 + 49 = 52$$

$$52 + 6^2 = 52 + 36 = 88$$

$$88 + 5^2 = 88 + 25 = 113$$

$$113 + 4^2 = 113 + 16 = 129$$

$$129 + 3^2 = 129 + 9 = 138$$

14. (3) The pattern of the number series is:

$$2 \times 1 + 1 = 52$$

$$3 \times 2 + 2 = 8$$

$$8 \times 3 + 3 = 27$$

$$27 \times 4 + 4 = 112$$

$$112 \times 5 + 5 = 565$$

15. (1) The pattern of the number series is:

$$6 \times 0.5 + 1 = 4$$

$$4 \times 1.5 + 2 = 8$$

$$8 \times 2.5 + 3 = 23$$

$$23 \times 3.5 + 4 = 84.5$$

$$84.5 \times 4.5 + 5 = 385.25$$

16. (4) The pattern of the number series is:

$$2^3 = 8;$$

$$4^3 = 64$$

$$6^3 = 216;$$

$$8^3 = 512$$

$$10^3 = 1000$$
;

$$12^3 = 1728$$

17. (2) The pattern of the number series is:

$$5 \times 1 + 1 \times 6 = 11$$

$$11 \times 2 + 2 \times 5 = 32$$

$$32 \times 3 + 3 \times 4 = 108$$

$$108 \times 4 + 4 \times 3 = 444$$

18. (3) S =
$$(1^2 - 2^2) + (3^2 - 4^2) + (5^2 - 6^2) + \dots$$
to 100 terms

= -3 - 7 - 11 - 15 - to 100 terms
= - (3 + 7 + 11 + 15 + ... to 100 terms)
100
=
$$2 \begin{bmatrix} 2 \times 3 + (100 - 1)4 \end{bmatrix}$$

 $\begin{bmatrix} S_n = \frac{n}{2} \begin{bmatrix} 2a + (n-1)d \end{bmatrix} \end{bmatrix}$
= - 50 × 402 = - 20100

19. (3) Tricky approach

$$\frac{3+5}{4} + 7 \dots + \frac{17}{1} + \frac{19}{1}$$

$$4 \begin{pmatrix} 36 \\ 1 \end{pmatrix} \begin{pmatrix} 44 \\ 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$= \begin{pmatrix} 1 \\ 4 \end{pmatrix} \begin{pmatrix} 4 \\ 9 \end{pmatrix} \begin{pmatrix} 9 \\ 16 \end{pmatrix} \begin{pmatrix} 81 \\ 100 \end{pmatrix}$$

$$= 1 - {100} = {100} = 0.99$$

20. (4) The pattern is:

= 238 21. (1) The pattern is:

$$25 + 1 \times 16 = 41$$

 $41 + 3 \times 16 = 41 + 48 = 89$

22. (2) The pattern is:

$$461 + 13 = 474$$

 $474 - 9 = 465$

$$465 + 13 = 478$$

$$478 - 9 = 469$$

23. (5) The pattern is:

$$(980 \div 2) + 26 = 516$$

$$(516 \div 2) + 26 = 284$$

$$(284 \div 2) + 26 = 168$$

$$(168 \div 2) + 26 = 110$$

$$(110 \div 2) + 26 = 81$$

24.

24. (5) The pattern is:
$$4 + 0 = 4$$

$$10 + 24 (= 6 + 18) = 34$$

$$34 + 60 (= 6 + 54) = 94$$

25. (1) Expression =

$$= (1 + 7 + 13 + ... + 61) - 2 \times 11$$

First Part =
$$1 + 7 + 13 + ... + 61$$

$$t_n = a + (n-1)d$$

$$\Rightarrow$$
 61 = 1 + (n - 1)d

$$\Rightarrow$$
 61 - 1 = $(n - 1)6$

$$\Rightarrow$$
 $(n-1)6 = 60$

$$\Rightarrow n - 1 = 10$$

$$\Rightarrow n = 11 \\ \underline{n}[a+l] =$$

$$S = \frac{[\alpha + i]^2}{2} \frac{11}{2} (1 + 61) = 341$$

Expre ssion =
$$341 - 22 = 319$$

26. (1) $x = \frac{1}{x} + \frac{1}{x} + \frac{1}{x} + \dots + \frac{1}{x} + \frac{1}{x}$

$$\begin{array}{ccc}
1 & & 1 \\
8 & 7 \times 9 \\
& & 1
\end{array}$$

$$= 1 - \frac{1}{8} + \frac{1}{63}$$

$$= \frac{504 - 63 + 8}{8 \times 63} = \frac{449}{504}$$

$$x = 449 \approx 1.1$$

27.

$$\frac{x}{2 \times 2011}$$

$$= \frac{x}{2 \times 2011}$$

$$\Rightarrow$$
 2 \times 2 \times 3 \times 3 \times 4 \times 4 \times 5 \times 5 \cdots

$$\Rightarrow \frac{1}{2} \times \frac{2012}{2011} = \frac{x}{2 \times 2011}$$

$$\Rightarrow x = 2012$$

(2) The pattern is:

$$1050 - 30$$

28.

$$510-26 = 242$$

$$242-22 = 100 \neq 106$$

$$110-18 = 46$$

$$\frac{46-14}{2}$$
 = 16.

29. (1) The pattern is
$$550 - 2^2 = 550 - 4 = 546$$
 $546 - 3^2 = 546 - 9 = 537$ $537 - 42 = 537 - 16 = 521$ $521 - 5^2 = 521 - 25$ $= 496 \neq 494$ $496 - 6^2 = 496 - 36 = 460$

30. (3) The pattern is;

$$8 + 1 \times 13 = 21$$

 $21 + 2 \times 13 = 21 + 26 = 47$
 $47 + 3 \times 13 = 47 + 39 = 86$
 $86 + 4 \times 13 = 86 + 52$
 $= 138 \neq 140$
 $138 + 5 \times 13 = 138 + 65 = 203$
 $203 + 6 \times 13 = 203 + 78 = 281$

31 (2) The pattern is;

$$4 \times 8 - 8 = 32 - 8 = 24$$

 $24 \times 7 - 7 = 168 - 7 = 161$
 $161 \times 6 - 6 = 966 - 6$
 $= 960 \neq 965$
 $960 \times 5 - 5 = 4800 - 5 = 4795$

32. (3) The pattern is:

$$1 \times 2 = 2$$

 $2 \times 3 = 6 \neq 8$
 $6 \times 4 = 24$
 $24 \times 5 = 120$
 $120 \times 6 = 720$

33. (2) The given number series is based on the following pattern: $1548 \div 3 = 516$

$$1548 \div 3 = 516$$

 $516 \div 4 = 129$
 $129 \div 3 = 43$
 $43 \div 4 = 10.75$

Hence, 10.75 will replace the question mark.

34. (4) The given number series is 'based on the following pattern: $949 \times 0.2 = 189.8$

Hence, 56.94 will replace the question mark.

35. (1) The given number series is based on the following pattern:

$$121 + 23 \times 1 = 144$$

 $144 + 23 \times 2 = 190$
 $190 + 23 \times 3 = 259$
 $\therefore ? = 259 + 23 \times 4 = 259 + 92 = 351$

Hence, 351 will replace the question mark.

36. (5) The given number series is based on the following pattern:

$$14 \times 3 + 1.5 = 43.5$$

 $43.5 \times 6 + 1.5 \times 2 = 264$
 $264 \times 12 + 1.5 \times 4 =$ **3174**
 $3174 \times 24 + 1.5 \times 8 = 76188$

Hence, 3174 will replace the question mark.

37. (3) The given number series is based on the following pattern:

Hence 94464 will replace the question mark.

38. (1) The pattern is: 2 + 3 = 5

$$5 + 4 = 9$$

 $6 + 5 =$ **14**
 $14 + 6 = 20$
 $20 + 7 = 27$

MODEL EXERCISES

- 1. The interior angles of a polygon are in AP, the smallest angle is 120° and the common difference is 5. Then, the number of sides of the polygon are
 - (1) 16
- (2)9
- (3) 8
- (4) 12
- (5) None of these
- **2.** A man arranges to pay off a debt of Rs 3600 in 40 annual instalments which form an AP. When 30 of the instalments are paid, he dies leaving one-third of the debt unpaid. Find the value of the first instalment.
 - (1) 55
- (2)53
- (3) 51
- (4) 49
- (5) None of these
- 3. Find $1^3 + 2^3 + 3^3 + \dots + 15^3$
 - (1) 11025
- (2) 13400
- (3)900
- (4) 14400
- (5) None of these
- **4.** The value of
 - $(1^3 + 2^3 + 3^3 + \dots + 15^3)$ -
 - $(1 + 2 + 3 + \dots + 15)$ is —
 - (1) 14280
- (2) 14400
- (3) 12280
- (4) 13280
- (5) None of these
- 5. What is the next number in the series given below?
 - 53, 48, 50, 50, 47
 - (1) 51
- (2) 46
- (3) 53
- (4) 52
- (5) None of these
- 6. In a GP, the first term is 5 and the common ratio is 2. The eighth term is
 - (1) 640
- (2) 1280
- (3) 256
- (4) 160
- (5) None of these
- 7. If the arithmetic mean of two numbers is 5 and geometric mean is 4, then the numbers are
 - (1) 4, 6
- (2) 4, 7
- (3) 3, 8
- (4) 2, 8
- (5) None of these
- 8. What is the next number in the series given below?
 - 2, 5, 9, 14, 20
 - (1) 25
- (2) 26
- (3) 27
- (4) 28
- (5) None of these
- 9. The sum of 40 terms of an AP whose first term is 4 and common difference is 4, will be
 - (1) 3200
- (2) 1600
- $(3)\ 200$
- (4) 2800
- (5) None of these

- Let S_n denote the sum of the first 'n' terms of an AP
 - $S_{2n} = 3S$. Then, the ratio S_{3n} is equal to S_{n}
 - (1) 4

(2) 6

(3) 8

- (4) 10
- (5) None of these
- 11. The missing number in the series
 - 8, 24, 12, 36, 18, 54 is —
 - (1) 27
- (2) 108
- (3)68
- (4)72
- (5) None of these
- 12. The sum of the 6th and 15th elements of an arithmetic progression is equal to the sum of 7th, 10th and 12th elements of the same progression. Which element of the series should necessarily be equal to zero?
 - (1) 10th
- (2) 8th
- (3) 1st
- (4) 9th
- (5) None of these
- 13. If p, q, r, s are in harmonic progression and p > s, then
 - 1 1
 - (1) ps < qr
- (2) q + r = p + 1
- 1 1 1 1
- $(3)_{q} + p = r + s$
- (4) None of these

(MAT Exam. Sept. 2003)

- 14. What is the eighth term of the sequence 1, 4, 9, 16, 25?
 - (1) 8
- (2) 64
- (3) 128
- (4) 200
- (5) None of these
- 15. In a geometric progression, the sum of the first and the last term is 66 and the product of the second and the last but one term is 128. Determine the first term of the series.
 - (1)64
- (2) 64 or 2
- (3) 2 or 32
- (4) 32
- (5) None of these
- 16. A sequence is generated by the rule that the *x*th term is x² + 1 for each positive integer x. In this sequence, for any value x > 1, the value of (x + 1)th term less the value of xth term is
 - (1) $2x^2 > + 1$
- (2) $x^2 + 1$
- (3) 2x + 1
- (4) x + 2
- (5) None of these
- 17. Four different integers form an increasing AP. If one of these numbers is equal to the sum of the squares of the other three numbers, then the numbers are —

(1) -2, -1, 0, 1 (3) -1, 0, 1, 2

(2) 0, 1, 2, 3

(4) 1, 2, 3, 4

(5) None of these

18. How many terms are there in an AP whose first and fifth terms are -14 and 2 respectively and the sum of terms is 40?

(1) 15

(2) 10

(3) 5

(4) 20

(5) None of these 19.

The first three numbers in a series are -3, 0, 3, the 10th number in the series will be

(1) 18

(2) 21 (4) 27

(3)24

(5) None of these

SHORT ANSWERS

1.	(2)	2. (3)
3.	(4)	4. (1)
5.	(4)	6. (1)
7.	(4)	8. (3)
9.	(1)	10. (2)
11.	(1)	12. (2)
13.	(4)	14. (1)
15.	(4)	16. (2)
17.	(2)	18. (3)
19.	(3)	
1.	(4)	2. (1)
3.	(4)	4. (3)
5 :	$\{\frac{2}{5}\}$	8: (3)
7.	(5)	8. (2)
9.	(1)	10. (4)
11.	(3)	12. (5)

EXPLANATIONS

14. (1)

16. (1)

18. (1)

1. (2) Let the polygon has n sides.

Given, the smallest interior angle is 120° , hence the greatest exterior angle will be $(180^{\circ} - 120^{\circ}) = 60^{\circ}$

We know sum of exterior angles of a polygon = 360°

{Common difference = -5}

n

$$\therefore_2 [2a + (n-1) d] = 360$$

n

13.

15.

17.

19.

(2)

(4)

(5)

(1)

$$_{2}[120 + (n - 1) \times -5] = 360$$

$$\Rightarrow n^2 - 25n + 144 = 0$$

 $\Rightarrow n = 9, 16$

Number of sides cannot be 16.

Hence, n = 9

2. (3) According to question,

Sum of 40 instalments S_{40}

$$= 3600 = 20 (2a + 39d)$$

 $\Rightarrow 2a + 39d = 180 ...(i)$

Sum of 30 instalments

$$_{30}$$
 = 2400 = 15 (2 a + 29 d)

$$\Rightarrow 2a + 29d = 160$$
 ...(ii)

Solving Eqs. (i) and (ii), we get

a = 51 and d = 2

∴The value of first instalment

= Rs 51

3. (4) According to question, we have,

$$1^3 + 2^3 + 3^3 + \dots + n^3 = \left| \frac{n \times (n+1)}{2} \right|^2$$

Here, n = number of terms = 15

$$\left| \frac{n(n+1)}{2} \right|^2 = \left| \frac{15 \times 16}{2} \right|^2$$

$$= (120)^2 = 14400$$

4. (1) According to question,

$$(1^3 + 2^3 + 3^3 + \dots + 15^3)$$
 -

$$(1 + 2 + 3 + \dots + 15)$$

$$= \begin{bmatrix} 15 \times 16 \end{bmatrix}^{2} \begin{bmatrix} 15 \times 16 \end{bmatrix}$$

$$= (120)^2 - (120)$$

$$=120 \times 119 = 14280$$

5. (4) According to question,

53, 48, 50, 50, 47....

The above series can be splitted into two series one in ascending order and other in descending order 53, 50, 47 and other is 48, 50, 52.

Hence, 52 will be the next number.

6. (1) According to question,

*n*th term of a GP = a^{n-1}

:.8th term =
$$5 \times (2)^{8-1} = 5 \times (2)^7$$

$$= 5 \times 128 = 640$$

7. (4) Let the two numbers be x and y. Then, AM,

x + y

$$2 = 5$$

$$\Rightarrow x + y = 10$$

and GM, = 4y..(i)

$$\Rightarrow xy = 16$$

$$\Rightarrow$$
 $(x - y)^2 = (x + y)^2 - 4xy$

$$100 - 64 = 36$$

$$x - y = 6$$
 ...(ii)

Or

Solving Eqs. (i) and (ii),

x = 8 and y = 2

8. (3) According to question,

$$2 + 3 = 5;$$

 $9 + 5 = 14;$

$$5 + 4 = 9;$$

 $14 + 6 = 20;$

$$20 + 7 = 27$$

Hence, the next number of the series will be 27.

9. (1) According to question,

n

$$S_{40} = {2 \choose 2} [2a + (n-1)d]$$

= 20 [4 + 39 × 4]
= 20 × 160 = 3200

10. (2) Let a be the first term and *d* be the common difference.

Then,
$$S_n = \frac{n}{2}(2a + (n-1)d]$$

$$2n$$

$$S_2 = \frac{1}{2}[2a + (2n-1)d]$$

$$3n$$
and $S_{3n} = \frac{1}{2}[2a + (3n-1)d]$
Given, $S_{2n} = 3S_n$

$$2n$$

$$2n$$

$$\frac{1}{2}[2a + (2n-1)d] = \frac{1}{2}$$

$$\frac{1}{2}[2a + (n-1)d] = \frac{1}{2}$$

$$\frac{1}{2}[2a + (4n-1)d] = \frac{1}{2}$$

$$\frac{1}{2}[2a + (4n-1)d] = \frac{1}{2}$$

$$\frac{1}{2}[2a + (3n-1)d] = \frac{1}{2}[2a + (3n-1)d] = \frac{1}{2}$$

$$\frac{1}{2}[2a + (3n-1)d] = \frac{1}{2}[2a + (3n-1)d] = \frac{$$

11. (1) According to question, 8, 24, 12, 36, 18, 54

Hence, 27 will come in the blank space.

12. (2) Let the first term and common term of the AP be a and d respectively.

Then,
$$(a + 5d) + (a + 14d) =$$

 $(a + 6d) + (a + 9d) + (a + 11d)$
 $\Rightarrow 2a + 19d = 3a + 26d$
 $\Rightarrow a + 7d = 0$
 $\therefore 8th \text{ term is } 0.$

13. (4) According to question, If *p*, *q*, *r*, *s* are in HP.

$$\Rightarrow \frac{1}{p}, \frac{1}{q}, \frac{1}{r}, \frac{1}{s} \text{ are in AP}$$

$$\frac{1}{q}, \frac{1}{p}, \frac{1}{s} = \frac{1}{s}, \frac{1}{r}$$

Hence the none of these be answer 14. (2) According to question,

Each term of the progression is the square of a natural number.

Hence, the eighth term of the sequence will be $(8)^2 = 64$

15. (2) Let the last term be n, then $a + ar^{n-1} = 66$ and ar. $ar^{n-2} = 128$ $a^2r^{n-1}' = 128$ From Eqs. (i) and (ii), a (66 - a) = 128 $\Rightarrow a^2 - 66a + 128 = 0$ $\Rightarrow a = 64, 2$

- 16. (3) According to question, $(x + 1)^{\text{th}}$ term $-x^{\text{th}}$ term $= (x + 1)^2 + 1 - (x^2 + 1)$ $= x^2 + 2x + 1 + 1 - x^2 - 1$ = 2x + 1
- 17. (3) By hit and trial or common sense, we have, $2 = (-1)^2 + (0)^2 + (1)^2$

 $Z = (-1)^2 + (0)^2 + (1)^2$ Hence the numbers are -1, 0, 1, 2

18. (2) According to question,

$$T_{5} = a + (n - 1).d$$

$$2 = -14 + 4d$$

$$16$$

$$d = \frac{1}{4} = 4$$

$$n$$

$$∴ S_{n} = \frac{1}{2} [2a + (n - 1) \times d]$$

$$n$$

$$40 = \frac{1}{2} [-28 + (n - 1) \times 4]$$

$$30 = -28n + 4n^{2} - 4n$$

$$4n^{2} - 32n - 80 = 0$$

$$6n^{2} - 8n - 20 = 0$$

$$(n - 10)(n + 2) = 0$$

$$6n = 10 (n \neq -2)$$

19. (3) According to question, a = -3. d = 3 T = a + (10 - 1). d $T_{10}^{=0} - 3 + 9 \times 3 = 24$

NUMBER SERIES-264

Directions (Q. 1-5): In each of the following number series, a wrong number is given. Find out that number.

out th	nat number.					
1.	1, 12, 31, 63, 10	1, 156, 227				
	(1) 31	(2) 63	(3)	101	(4) 156	(5) 227
2.	4, 9, 28, 99, 415,	2105, 12660				
	(1) 9	(2) 28	(3)	99	(4) 415	(5) 2105
3.	7, 26, 64, 124, 23	15, 342, 511				
	(1) 26	(2) 64	(3)	124	(4) 215	(5) 342
4.	9, 28, 63, 120, 20	05, 323, 483				
	(1) 28	(2) 63	(3)	120	(4) 205	(5) 323
5.	26, 57, 102, 164,	250, 366, 518				
	(1) 57	(2) 102	(3)	164	(4) 250	(5) 366
	Directions (Q. 6	-10): In each of the	e fol	lowing numbe	r series, a wrong n	umber is given. Find
out th	ne wrong number.					
6.	30, 210, 742, 17	16, 3390, 5814				
	(1) 210	(2) 742	(3)	1716	(4) 3390	(5) 5814
7.	1440, 1152, 930	, 766, 651, 580, 542				
	(1) 930	(2) 766	(3)	651	(4) 580	(5) 542
8.	18, 59, 187, 576,	1749, 5269				
	(1) 59	(2) 187	(3)	576	(3) 1749	(5) 5269
9.	7, 22, 64, 216, 89	98, 4525, 27190				
	(1) 64	(2) 216	(3)	898	(4) 4525	(5) 27190
10.	16, 9278, 15109,	18484, 20212, 209	41, 2	21157		
	(1) 9278	(2) 15109	(3)	18484	(4) 20212	(5) 20941
		los. 11-15) What w	ill c	ome in place o	of question mark (?) in the following
	er series?					
11.	1 7 49 343(?)	(0) 1007	(2)	2050	(4) 0401	(E) None of these
12.	(1) 16807 13 20 39 78 145	(2) 1227	(3)	2058	(4) 2401	(5) None of these
14.	(1) 234	(2) 244	(3)	236	(4) 248	(5) None of these
13.	12 35 81 173 357	` '	(0)	200	(1) 2 10	(o) None of those
	(1) 725	(2) 715	(3)	726	(4) 736	(5) None of these
14.	3 100 297 594 99	91 (?)	, ,		, ,	` '
	(1) 1489	(2) 1479	(3)	1478	(4) 1498	(5) None of these
15.	112 119 140 175	` '				
	(1) 277	(2) 276		287	(4) 266	(5) None of these
4 41		6 - 20): In each of th	ie fo	llowing number	er series, a wrong 1	number is given. Find
	nat number.	2065 12606				
16.	4, 5, 18, 80, 388,		(0)	0.0	(4) 200	(5) 2065
	(1) 5	(2) 18	(3)	80	(4) 388	(5) 2065
17.	- 77 ST 88 133 1	IXN 74X 316				
	22, 51, 88, 133, 1		(0)	100	(4) 106	(5) 040
	(1) 51	(2) 88	(3)	133	(4) 186	(5) 248
18.		(2) 88		133 57	(4) 186(4) 137	(5) 248(5) 284

			60		
19.	3, 17, 83, 371, 19	07, 11507, 80627			
	(1) 17	(2) 83	(3) 371	(4) 1907	(5) 11507
20.	8, 9, 25, 105, 362	, 987, 2283			
	(1) 9	(2) 25	(3) 105	(4) 362	(5) 987
		l-25): In each of th	ne following numb	er series, a wrong	number is given. Find
	ne wrong number.				
21.	6, 39, 213, 1090,	•			
	(1) 39	(2) 213	(3) 1090	(4) 5496	(5) 27525
22.	17, 141, 358, 701				
	(1) 141	(2) 358	(3) 701	(4) 1213	(5) 1942
23.	6, 14, 51, 249, 14				
	(1) 14	(2) 51	(3) 249	(4) 1486	(5) 10401
24.	8, 24, 88, 232, 48				
	(1) 24	(2) 88	(3) 232	(4) 488	(5) 887
25.	8, 21, 85, 421, 25	•			
	(1) 21	(2) 85	(3) 421	(4) 2521	(5) 17641
4 41		5-30): In each of th	ne following numb	er series, a wrong	number is given. Find
26.	ne wrong number.	04 0525			
20.	13, 16, 38, 124, 5 (1) 16	(2) 38	(3) 124	(4) 504	(5) 2535
27.	6, 10, 32, 111, 46	` '	(3) 124	(4) 304	(3) 2333
21.	(1) 10	(2) 32	(3) 111	(4) 464	(5) 2345
28.	8, 18, 64, 272, 13	` '	(3) 111	(4) 404	(3) 2343
40.	(1) 18	(2) 64	(3) 272	(4) 1395	(5) 8424
29.	80, 105, 195, 478	` '	(0) 212	(4) 1000	(0) 0424
4).	(1) 105	(2) 195	(3) 478	(4) 1350	(5) 3975
30.	8, 18, 78, 420, 24	` '	(0) 170	(1) 1000	(0) 0370
00.	(1) 18	(2) 78	(3) 420	(4) 2424	(5) 15270
	` '	• •	` '	, ,	the following number
series			oomo m puoo or c	144004-0	
31.	9480, 5384, 8759	9, 6015, 8212, ?			
	(1) 6218	(2) 6484	(3) 6692	(4) 6816	(5) None of these
32.	12, 21, 78, 458, 3	3649, ?			
	(1) 36039	(2) 36248	(3) 36469	(4) 36878	(5) None of these
33.	8, 71, 565, 3950,	23693, ?			
	(1) 118456	(2) 118214	(3) 118684	(4) 118724	(5) None of these
34.	6, 7, 9, 36, 40, ?				
	(1) 92	(2) 108	(3) 148	(4) 151	(5) 165
35.	14, 24, 32, 44, 10	08, 122, ?			
	(1) 212	(2) 338	(3) 436	(4) 647	(5) 555
	Directions (Q	.36-40) What will	come in place of q	uestion mark (?) in	the following number
series					
36.	17 19 33 (?) 129 :		(2) 67	(4) 70	(E) NT C :1
27	(1) 64	(2) 73 763 (2)	(3) 67	(4) 72	(5) None of these
37.	35 256 451 620 7 (1) 680	(63 (?) (2) 893	(3) 633	(4) 880	(5) None of these
	(1) 000	(4) 000	(0) 000	(1) 000	(O) HOLLE OF LIFESE

			01		
38.	18 139 868 917 (?) 1051	,_,			
39.	(1) 1042 (2) 1036 2890 (?) 1162 874 730 658	(3)	942	(4) 996	(5) None of these '
39.	(1) 1684 (2) 1738	(3)	1784	(4) 1672	(5) None of these
40.	14 1004 1202 1251.5 1268 (?)	(-)		()	(0) 1.0110 01 01100
	(1) 1267.5 (2) 1276.25	(3)	1324.5	(4) 1367.25	(5) None of these
	Directions (Q. 41-45): Which is the	e ne	xt number in t	the given number	series.
41.	8, 14, 40, 138, 576, ?				
	(1) 2910 (2) 2915	(3)	2920	(4) 2925	(5) 2930
42.	17, 98, 260, 829, 3352, ?				
	(1) 16680 (2) 16785	(3)	16890	(4) 16995	(5) 17000
43.	600, 120, 144, 316.8, ?				
	(1) 1011.84 (2) 1012.96	(3)	1013.76	(4) 1014.12	(5) 1015.25
44.	472, 1450, 3406, 6340, 10252, ?				
	(1) 15142 (2) 15144	(3)	15146	(4) 15148	(5) 15150
45.	8, 18, 42, 108, 300, 870, ?				
	(1) 2570 (2) 2572	` '	2574	(4) 2576	(5) 2578
	Directions (Q. 46-50): What is the	nex	t number in th	ie given number s	eries?
46.	27,1358,3086,5283,8027				
	(1) 11401 (2) 11402	(3)	11403	(4) 11404	(5) 11405
47.	17, 68, 238, 867, 3672, ?				
	(1) 18611 (2) 18612	(3)	18613	(4) 18614	(5) 18615
48.	64, 96, 288, 1296, 7776, ?				
	(1) 58310 (2) 58320	(3)	58330	(4) 58340	(5) 58350
49.	42, 50, 132, 468, 2000, ?	,_,			
- 0	(1) 10200 (2) 10300	(3)	10400	(4) 10500	(5) 10600
50.	96, 128, 371, 1395, 4520, ?	(2)	10006	(4) 10000	(5) 10200
	(1) 12292 (2) 12294	` '	12296	(4) 12298	(5) 12300
51.	Directions (Q. 51-55): Which is the 112, 229, 286, 520, 634, 985,?	e ne	xt number in t	the following num	iber series?
51.	(1) 1152 (2) 1154	(3)	1156	(4) 1158	(5) 1160
52.	17, 38, 122, 500, 2516, ?	(0)	1100	(1) 1100	(0) 1100
	(1) 15115 (2) 15116	(3)	15117	(4) 15118	(5) 15119
53.	48, 72, 144, 360, 1080, ?				
	(1) 3780 (2) 3782	(3)	3784	(4) 3786	(5) 3790
54.	7, 71, 583, 2311, 6407, 14407, ?	(0)	0.5004	(A) 0 = 004	(T) 00001
==	(1) 24231 (2) 25231	٠,	26231	(4) 27231	(5) 28231
55.	19874, 19858, 19777, 19521, 18896 (1) 17600 (2) 17500		17400	(4) 17300	(5) 17200
	Directions (Q. 56-60): What will be	` '		` '	` '
56.	15, 115, 126, 270, 283, 479, ?		, 11011C 114111101	the 10110 wing 1	
00.	(1) 536 (2) 554	(3)	584	(4) 592	(5) None of these
57.	23, 312, 673, 1114, 1643, ?	(-)	-	\ / -	, , , , , , , , , , , , , , , , , , , ,
	(1) 2024 (2) 2160	(3)	2268	(4) 2304	(5) 2412
58.	6, 28, 110, 476, 2426, ?	(-)		\ / ·- ~ ·	· / ·
	(1) 14612 (2) 14512	(3)	14412	(4) 14312	(5) 14212
	• •	. ,		•	•

		62		
59.	15, 57, 168, 417, 942, ?			
	(1) 1816 (2) 1904	(3) 2019	(4) 2146	(5) 2251
60.	12, 24, 44, 74, 116, ?			
	(1) 164 (2) 172	(3) 178	(4) 184	(5) 196
	Directions (Q. 61-65): Find the r	next number in tl	ne following num	ber series.
61.	215, 302, 517, 732, 947, 1162, ?			
	(1) 1372 (2) 1375	(3) 1377	(4) 1379	(5) 1381
62.	192, 292, 400, 516, 640, ?			
	(1) 770 (2) 772	(3) 774	(4) 776	(5) 778
63.	19, 29, 41, 55, 71, ?			
	(1) 89 (2) 91	(3) 93	(4) 95	(5) 97
64.	768, 512, 320, 192, 112, ?			
	(1) 56 (2) 64	(3) 72	(4) 96	(5) 84
65.	18, 42, 78, 132, 210, ?			
	(1) 310 (2) 312	(3) 314	(4) 316	(5) 318
	Directions (Q. 66-70): Find the no	ext number in the	place of question	mark (?) in the following
	ber series.			
66.	4, 13, 54, 273, 1642, ?			
	(1) 10432 (2) 10968	(3) 11120	(4) 11499	(5) 11562
67.	3, 14, 66, 312, 1640, ?			
	(1) 9950 (2) 9960	(3) 9970	(4) 9980	(5) 9990
68.	3, 8, 16, 15, 42, 29, 81, ?			
	(1) 50 (2) 54	(3) 72	(4) 78	(5) 96
69.	6, 42, 114, 258, 546, ?			
	(1) 1116 (2) 1118	(3) 1120	(4) 1122	(5) 1124
70.	484, 729, 1024, 1369, 1764, ?			
	(1) 2204 (2) 2206	(3) 2209	(4) 2212	(5) 2215
	Directions (Q. 71-75) : What will	be the next num	ber in the follow	ing number series?
71.	27 76 272 713 1497 ?			
	(1) 2720 (2) 2721	(3) 2722	(4) 2723	(5) 2724
72.	68 216 444 752 1140 ?			
	(1) 1600 (2) 1602	(3) 1604	(4) 1606	(5) 1608
73.	7 14 35 78 151 262 ?			
	(1) 417 (2) 419	(3) 421	(4) 423	(5) 425
74.	3 35 99 195 323 483 ?			
	(1) 645 (2) 655	(3) 665	(4) 675	(5) 685
75.	5 7 19 49 105 195 ?			
	(1) 323 (2) 325	(3) 327	(4) 329	(5) 331
	Directions (Q. 76-80): What num	ber should come	in place of questic	on mark in the following
	ber series?			
76.	5, 21, 57, 121, 221, 365,		(4) 504	(T) 500
	(1) 536 (2) 561	(3) 584	(4) 604	(5) 628
77.	5, 49, 481, 3841, ?	(0) 04555	(4) 06553	(F) 10005
70	(1) 23041 (2) 22031	(3) 21021	(4) 20011	(5) 19001
78.	8, 19, 52, 151, 448, ?			

	63		
	(1) 1120 (2) 1148 (3) 1236	(4) 1284 (5) 1339	
79.	9801, 9604, 9409, 9216, 9025, ?		
	(1) 8836 (2) 8792 (3) 8688	(4) 8542 (5) 8466	
80.	339, 733, 1327, 2201, 3371, ?		
	(1) 4677 (2) 4757 (3) 4837	(4) 4917 (5) 5007	
	Directions (Q. 81-85): What will be the next	number in the following number series?	
81.	3, 14, 83, 254, 627, ?		
	(1) 1292 (2) 1294 (3) 1296	(4) 1298 (5) 1300	
82.	18, 31, 83, 317, 1565, ?		
	(1) 9365 (2) 9375 (3) 9385	(4) 9395 (5) 9405	
83.	43, 145, 381, 841, 1639, ?		
	(1) 2911 (2) 2913 (3) 2915	(4) 2917 (5) 2919	
84.	27, 38, 64, 86, 125, ?		
	(1) 152 (2) 154 (3) 156	(4) 158 (5) 160	
85.	12, 39, 120, 363, 1092, ?		
	(1) 3275 (2) 3279 (3) 3284	(4) 3287 (5) 3291	
	Directions (Q. 86-88): What will come in plac	ce of question mark (?) in the following number	
series	s?		
86.	5 15 35 75 155 (?)		
	(1) 295 (2) 315 (3) 275	(4) 305 (5) None of these	
87.	3 6 18 72 360 (?)		
	(1) 2160 (2) 1800 (3) 2520	(4) 1440 (5) None of these	
88.	688 472 347 283 256 (?)		
	(1) 236 (2) 229 (3) 255	(4) 248 (5) None of these	
numh	Directions (Q. 89-93): Find out the next numb er series.	per in place of question mark (?) in the following	
89.	25, 42, 85, 174, 335, ?		
05.	(1) 525 (2) 575 (3) 600	(4) 612 (5) 650	
90.	365, 728, 2160, 8532, 42340, ?		
	(1) 253275. (2) 253280 (3) 25328	35 (4) 253290 (5) 253295	
91.	62, 177, 512, 1507, 4482, ?		
00	(1) 13396 (2) 13397 (3) 13398		
92.	21, 12342, 22543, 30824, 37385, 7 (1) 42422 (2) 42424 (3) 42426		
93.	800, 160, 48, 19.2, 9.6 ?	(3) 72730	
, ,	(1) 6.48 (2) 5.76 (3) 5.12	(4) 4.84 (5) 4.56	
	* * * * * * * * * * * * * * * * * * * *	in place of question mark (?) in the following	
	er series.		
94.	57, 66, 101, 192, 381, ?	(I) Too	
O.E.	(1) 722 (2) 724 (3) 726 7 10 55 163 487 3	(4) 728 (5) 730'	
95.	7, 19, 55, 163, 487, ? (1) 1451 (2) 1453 (3) 1455	(4) 1457 (5) 1459	
96.	12, 28, 92, 236, 492, 892, ?	(1) 1101 (0) 1103	
	(1) 1458 (2) 1468 (3) 1478	(4) 1488 (5) 1498	
97.	8400, 7376, 6592, 6016, 5616, ?		
	(1) 5360 (2) 5370 (3) 5380	(4) 5390 (5) 5400	
98.	7.8, 20.6, 51.2, 117.4, 254.8, ?		

		64		
	(1) 530.6 (2) 5	32.6 (3) 534.6	(4) 536.6	(5) 538.6
	Directions (O. 99-103)	: Find the next number in t		ber series.
99.	, <u>, , , , , , , , , , , , , , , , , , </u>	35 143 ?	• • • •	
,,,,	(1) 151 (2) 15		(4) 168	(5) None of these
100.		57 982 ?	(4) 100	(5) Notic of these
100.			(4) 0070	(5) 0410
101	(1) 1632 (2) 18	* *	(4) 2278	(5) 2412
101.		22 1598 ?	(4) 4000	(=) 1010
	(1) 4832 (2) 48	• ,	(4) 4838	(5) 4840
102.	4830 4556 4290 4			
	(1) 3510 (2) 3	520 (3) 3530	(4) 3540	(5) 3550
103.	1320 1313 1288 1	227 1106 ?		
	(1) 875 (2) 88		(4) 890	(5) 895
		-108) In each of these que	` '	• •
ceries		ong. Find out the wrong numl		,01105 15 g1 v 011. 111 ou 011
104.	5531 5506 542	_		
104.				(F) FF06
105	(1) 5531 $(2) 54$		(4) 5135	(5) 5506
105.	6 7 9 13	26 37 69		
	(1) 7 (2) 26	` ,	(4) 37	(5) 9
106.	1 3 10 36 152 760 463	2		
	(1) 3 (2) 36	5 (3) 4632	(4) 760	(5) 152
107.	4 3 9 34 96 219 435			
	(1) 4 (2) 9	(3) 34	(4) 435	(5) 219
108.	157.5 45 15 6 3 2 1	` ,	. ,	,
	(1) 1 (2) 2	(3) 6	(4) 157.5	(5) 45
	` '	3): Find out the next number	· '	` '
follow	ring number series.	5). Find out the next number	in place of ques	tion mark (:) in the
	_	140 0104 2		
109.		140, 9104, ?	(4) 00740	(5) 37
	(1) 90080 (2) 9		(4) 92740	(5) None of these
110.		3798, ?		
		5812 (3) 55784	(4) 54312	(5) None of these
111.	5, 47, 417, 33	27, 23277, ?		
	(1) 131642 (2) 13	33712 (3) 135416	(4) 139647	(5) None of these
112.	3, 37, 285, 17	49, 8797, ?		
	(1) 34856 (2) 35		(4) 35416	(5) 35622
113.	7, 736, 1248,		. ,	. ,
	(1) 1932 (2) 20		(4) 2190	(5) 2216
	` '	B): What will come in place of	· ·	• •
numh	er series?	o, . while will come in place c	, daoscion main (. , tile 10110 willing
		97 227 2		
114.		87 337 ?	(4) 416	(E) 401
	(1) 391 (2) 40		(4) 416	(5) 421
115.		613 6125 ?		
	(1) 6311 $(2) 63$		(4) 6341	(5) 6351
116.	1664 4160 1040 2	600 ? 1625		
	(1) 630 (2) 64	10 (3) 650	(4) 660	(5) 675
117.	43.5 57 70.5 8	4 97.5 ?	, ,	, ,
	(1) 109 (2) 11		(4) 121	(5) 124
118.	5 87 601 ?		()	
1101			(4) 2005	(5) 2125
	(1) 2775 (2) 28	` ,	(4) 3005	(5) 3135
		: What will be the next numbe	r in the question n	iark (7) in the following
	er series?	. =000		
119.	7922, 7746, 7572, 7400			
	(1) 7060 (2) 7	062 (3) 7064	(4) 7066	(5) 7068

```
120.
       54, 68,
                84,
                      102,
                            122,
                                   144. ?
       (1) 162
                        (2) 164
                                          (3) 166
                                                           (4) 168
                                                                             (5) 170
121.
       18, 32,
                 74.
                        200,
                               578,
                                     1712, ?
       (1)5110
                        (2) 5112
                                          (3) 5114
                                                           (4) 5116
                                                                             (5) 5118
122.
          1338.
                  2067,
                          2410, 2535,
                                         2562.
       (1) 2563
                        (2) 2572
                                          (3) 2584
                                                            (4) 2590
                                                                             (5) None of these
       36, 77,
123.
                241, 979, 4915, ?
                                          (3) 29515
                                                            (4) 29520
                                                                             (5) 29525
       (1) 29505
                        (2) 29510
       Directions (O. 124-128): Find out the next number in place of question mark(?) in the
following number series.
                                          ?
124.
       1320
             990
                     720
                            504
                                   336
                        (2)206
                                          (3)208
       (1)204
                                                           (4)210
                                                                             (5) 212
                            4114
125.
       8
                     587
                                   24691 ?
       (1) 123456
                        (2) 12346 -
                                                           (4) 123446
                                                                             (5) None of these
                                          (3) 123454
126.
              512
                     2401
                            7776
                        (2)14275
                                          (3)15625
                                                           (4) 17525
                                                                             (5) 18250
       (1)12525
                5560
                                     4965
                                                 4489
127.
       5679
                            5322
                                                                             (5)3894
       (1)3890
                        (2)3891
                                          (3) 3892
                                                           (4) 3893
128.
       12
                     73
                            212
                                   630
                                          1885
                                                5
              27
                        (2) 5652
                                          (3) 5653
                                                           (4) 5654
                                                                             (5) 5655
       (1)5651
       Directions (Q. 129-133): Find out the next number in the following number series.
129.
              1112
                     1322
                           1478
                                   1588
       840
                        (2)1668
                                                           (4) 1662
                                                                             (5)1660
       (1) 1672
                                          (3)1665
130.
                                   14412
       76
              588
                     2316
                            6412
                        (2)28226
       (1)28216
                                          (3)28236
                                                           (4)28246
                                                                             (5)28256
131.
       20
             100
                     244
                            452
                                   724
                                          1060 ?
       (1) 1450
                        (2) 1460
                                                           (4) 1480
                                          (3) 1470
                                                                             (5) 1490
132.
       4984 4408
                            3643
                                   3418
                                          3274 ?
                     3967
       (1) 3193
                        (2)3183
                                          (3)\ 3173
                                                           (4) 3163
                                                                             (5) 3153
133.
                     3048
                                          4098 ?
       1338 2328
                           3552
                                   3888
       (1)4332
                        (2) 4223
                                          (3)4218
                                                           (4) 4232
                                                                             (5)4323
       Directions (Q. 134-136): What will come in place of question mark (?) in the following
number series?
134.
       987, 587 331
                        187
                             123 ?
                                                                              (5) None of these
       (1) 104
                        (2) 113
                                          (3) 107
                                                            (4) 114
135.
       125
                  263 401
                             585 ?
            171
       (1)835
                        (2)815
                                          (3)792
                                                            (4)788
                                                                             (5) None of these
136.
       121 132
                  167 226 309
       (1)424
                        (2)413
                                          (3)427
                                                            (4)416
                                                                             (5) None of these
       Directions (Q. 137-138): In the following number series, only one is wrong. Find out the
wrong number.
       454 327 648 524 842 713
137.
                                       1036
       (1) 327
                        (2)648
                                          (3)521
                                                            (4)842
                                                                             (5)713
138. 72.5 86
                      168 275 491 923
                113
                        (2) 113
                                          (3) 168
                                                            (4)275
                                                                             (5)491
       Directions (Q. 139 - 143): Find out the number in place of question mark(?) in the following
number series.
139.
       112
            121
                 146
                        195 276 ? 566
                                          (3)397
       (1)381
                        (2)392
                                                           (4) 403
                                                                             (5) 411
140.
       1365 2590 4190 6215 ?
                                    11740
                                                           (4)9175
       (1)8525
                        (2)8715
                                          (3)8945
                                                                             (5)9295
```

141.	5 153 2430 ? 350053 315	0801		
	(1) 29615 (2) 29832	(3) 30640	(4) 30998	(5) 31798
142.	240 163 108 75 64 ?	()	()	,
	(1) 55 (2) 52	(3) 51	(4) 45	(5) None of these
143.	12.8 11.52 10.16 8.82 7.5	? 4.92		
	(1) 6.20 (2) 6.14	(3) 5.84	(4) 5.44	(5) 5.12
	Directions (Q. 144-148): Find	out the next numbe	r in place of que	estion mark (?) in the
	ring number series.			
144.	1 8 21 42 73 116 ?			
	(1) 173 (2) 177	(3) 181	(4) 184	(5) 187
145.	15 96 160 209 245 ?	(2) 0 = 0	(4) 0=0	(5) 064
1.4.6	(1) 295 (2) 286	(3) 278	(4) 270	(5) 264
146.	5 16 25.8 37.8 52 68.4	?	(4) 07	(5) 00 0
1 4 7	(1) 82.8 (2) 84	(3) 85.4	(4) 87	(5) 89.2
147.	12 37 43 92 100 ?	(2) 164	(4) 101	(E) 10E
140	(1) 132 (2) 158	(3) 164	(4) 181	(5) 195
148.		?	(4) 1204	(E) 1201
	(1) 924 (2) 1148 Directions (Q. 149–153): In eac	(3) 1288	(4) 1304	(5) 1321
only c	one number is wrong. Find out th	-	a number serie	s is given. In each series
149.	4 11 36 96 218 429	e wrong number.		
110.	(1) 11 (2) 36	(3) 96	(4) 218	(5) 429
150.	68 127 333 1232	5985 35640	(1) 210	(6) 123
100.	(1) 127 (2) 333	(3) 1232	(4) 5985	(5) 35640
151.	14 17 35 83 188 379	(-)	()	(-,
	(1) 17 (2) 35	(3) 83	(4) 188	(5) 379
152.	1248 1872 4680 16380	73712 405405	. ,	. ,
	(1) 1872 (2) 4680	(3) 16380	(4) 73712	(5) 405405
153.	36 20 44 28 64 40	96 62		
	(1) 20 (2) 44	(3) 28	(4) 64	(5) 40
	Directions (Q, 154-158): What w	ill come in place of q	uestion mark (?)	in the following number
series				
154.	123 277 459 669 907 ?	(a) 11 a=		
155	(1) 1179 (2) 1173	(3) 1167	(4) 1169	(5) None of these
155.	456.5 407 368.5 341 324.5'?	(2) 217	(4) 202	(E) None of these
156	(1) 321 (2) 319	(3) 317	(4) 323	(5) None of these
156.	23 42.2 80.6 157.4 311 ? (1) 618.2 (2) 623.6	(3) 624.2	(4) 616.6	(5) None of these
157.	36 154 232 278 300 ?	(3) 024.2	(4) 010.0	(3) None of these
107.	(1) 304 (2) 313	(3) 308	(4) 307	(5) None of these
158.	24 536 487 703 678 ?	(0) 000	(1) 307	(5) Notic of these
100.	(1) 768 (2) 748	(3) 764	(4) 742	(5) None of these
	Directions (Q. 159-163): Find	` '	` '	• •
numb	er series.	P	4	
159.	232 360 530 748 1020 ?			
	(1) 1350 (2) 1352	(3) 1354	(4) 1356	(5) 1358
160.	6 21 101 601 4201 ?			
	(1) 33601 (2) 33602	(3) 33603	(4) 33604	(5) 33605
161.	117 365 861 1853 3837			
	(1) 7801 (2) 7802	(3) 7803	(4) 7804	(5) 7805
162.	15 66 321 1596 7971 ?	(2) 22		
	(1) 39842 (2) 39844	(3) 39846	(4) 39848	(5) 39850

163.	27 370 1099 2430 4627 ?	07		
		(3) 8006	(4) 8008	(5) 8010
	Directions (Q. 164-168): Find out	` ,		ark(?) in the following
numb	er series.			
164.		77 1289 ?		
	(1) 2015 (2) 2016	(3) 2017	(4) 2018	(5) 2019
165.		2832 ?	(4) 072000	(F) 072000
166.	(1) 273994 (2) 273996 13 39 73 115 165 22	(3) 273998 23 ?	(4) 273992	(5) 273990
100.	13 39 73 115 165 22 (1) 289 (2) 287	23 . (3) 285	(4) 283	(5) 281
167.	` '	510 ?	(4) 200	(5) 261
107.	(1) 21090 (2) 21092	(3) 21094	(4) 21096	(5) 21098
168.	* *	51 ?	(.) =====	(0)
	(1) 190 (2) 191	(3) 192	(4) 193	(5) 194
	Directions (Q. 169-173): Find out	the number in pla	ce of question ma	rk(?) in the following
numb	er series.			
169.	429 351 281 219 165 ?			
	(1) 72 (2) 119	(3) 64	(4) 123	(5) 72
170.	900 810 448 392 180 ?			
	(1) 48 (2) 150	(3) 90	(4) 45	(5) 78
171.	330 261 200 147 102 ?			
	(1) 105 (2) 103	(3) 102	(4) 98	(5) 65
172.	66.5 93.5 112.5 123.5 126.5		, ,	` ,
	(1) 121.5 (2) 108.5	(3) 138.9	(4) 136.9	(5) 135.9
173.	39 48 53 54 51 ?	(0) 100.5	(1) 100.5	(0) 100.5
170.	(1) 59 (2) 44	(3) 33	(4) 46	(5) 48
	Directions (Q. 174-178) : Find out		` '	` '
follow	ing number series.	t the next number	in place of quest	ion mark (:) in the
174.	150 252 392 576 810 ?			
	(1) 1100 (2) 1200	(3) 1300	(4) 1089	(5) 1144
175.	100 3700 10900 21700 3610	` '	()	()
	(1) 37528 (2) 44881	(3) 95964	(4) 78873	(5) 54100
176.	1482 1406 1332 ? 1190 13	122		
	(1) 1352 (2) 1781	(3) 1260	(4) 3192	(5) 1159
177.	2 12 30 56 ? 132			
	(1) 78 (2) 88	(3) 90	(4) 84	(5) 81
178.		208		
	(1) 1395 (2) 1482	(3) 1443	(4) 1485	(5) 1681
1	Directions (Q. 179-183): In each o	-	a number series is	s given. In each series
-	ne number is wrong. Find out the w 1716 1320 1000 720	_	210	
179.	1716 1320 1000 720 (1) 720 (2) 504			(5) 226
180.	1217 1083 957 833 720	(3) 1000 618 524	(4) 210	(5) 336
100.	(1) 720 (2) 833	(3) 618	(4) 524	(5) 957
181.	16 47 199 771	• •	581	(0) 501
	(1) 4581 (2) 199	(3) 4585	(4) 2283	(5) 771
182.	2769 2213 1737 1335	1000 810 576		` '
	(1) 810 (2) 1335	(3) 2213	(4) 576	(5) 1000
183.	165 286 363 396 385	350 231		

			68		(=)
	(1) 350	(2) 363	(3) 396	(4) 231	(5) 286
_					ies is given. In each series
-		_	he wrong numbe		
184.	6821 5868	4879 4130	3345 2272	2171	(5) 2272
105	(1) 4879	(2) 4130	(3) 2171	(4) 3345	(5) 2272
185.	1095 1217	1379 1508	1686 1842	2034	(5) 1070
105	(1) 1508	(2) 1686	(3) 1842	(4) 2034	(5) 1379
186.	31.5 47.5	59.5 67.5	71.5 79.5	67.5	(=) 4= =
	(1) 71.5	(2) 79.5	(3) 31.5	(4) 59.5	(5) 47.5
187.	15 8	35 24	63 49	99	(T) 0
	(1) 35	(2) 63	(3) 49	(4) 24	(5) 8
188.	132 200	253 288	308 312	300	
	(1) 132	(2) 253	(3) 288	(4) 312	(5) 308
_		. 189-191) : Wh	at will come in	place of question n	nark (?) in the following
	er series.	100			
189.	53 74		00 145	?	(-) - 0
	(1) 196	(2) 172	(3) 136	(4) 96	(5) 78
190.	145 180		44 813	?	
	(1) 900	(2) 948	(3) 975	(4) 1015	(5) 1125
191.	12 24		12 220	?	
	(1) 248	(2) 264	(3) 278	(4) 284	(5) 296
		192-194): What	will come in plac	e of question mark (?) in the following number
series	s?				
192.	180 364	528	648 700) ?	
	(1) 840	(2) 800	(3) 760	(4) 720	(5) 660
100	. ,				(0) 000
193.	1 33	161	513 124	9 ?	
	(1) 2213	(2) 2353	(3) 2463	(4) 2593	(5) 2603
194.	28 126	378	860 172	0 .	
	(1) 3066	(2) 2066	(3) 3056	(4) 3266	(5) None of these
105	•		` '		, ,
195.	What will come	e in place of ques	stion mark (?) in	the given number se	ries
	7, 15, 53, 239,	1259,?			
	(1) 7246	(2) 7312	(3) 7468	(4) 7549	(5) 7679
	Directions (Q.	. 196-200) : Find	out the number	in place of questio	n mark (?) in the following
numb	er series.				
196.	529 841 96	1 1369 1681	1849 ?		
	(1) 2809	(2) 3249	(3) 2208	(4) 6424	(5) 2209
197.	1108 1117	1142 1191 ?	• •	、	. ,
	(1) 1312	(2) 1272	(3) 1300	(4) 1204	(5) None of these
198.	` '	1225 1369 1521		(1) 1201	(b) Holie of these
190.				(4) 1001	(5) 1701
	(1) 1785	(2) 1581	(3) 1681	(4) 1881	(5) 1781
199.	12 14 32	102' 416 209	0 3		
	(1) 15522	(2) 12552	(3) 13525	(4) 17552	(5) None of these
200.	384 381 37	2 345 264 ?			
	(1) 25	(2) 27	(3) 44	(4) 49	(5) None of these
	Directions (O	. 201-205) : Find	d the number in	place of question r	nark (?) in the following
	or corioc	•		- -	

number series.

			09		
201.	3 81 ? 1029 2187 3993				
200	(1) 375 (2) 648	(3)	192	(4) 575	(5) 243
202.	30 45 75 105 165 ?	(2)	015	(4) 105	(E) 020
203.	(1) 185 (2) 205 8 24 12 36 18 54 ?	` '	215	(4) 195	(5) 230
200.	(1) 64 (2) 79		34	(4) 37	(5) 27
204.		(5) 5 6	5 +	(1) 31	(3) 21
201.	(1) 56 (2) 60		26	(4) 36	(5) 16
205.	26 63 124 215 342 ?	(0)	20	(1) 00	(0) 10
_00.	(1) 511 (2) 509	(3)	504	(4) 515	(5) 525
	Directions (Q. 206-210): Fin	d the num	ber that will co	ome in place of que	estion mark (?) in the
follow	ing number series.				
206.	90 110 132 156 182 ?	P			
	(1) 207 (2) 307	(3)	309	(4) 323	(5) 210
207.	2 18 95 384 1155 ?				
000	(1) 2212 (2) 2629 7 18 51 106 183 ?	(3)	2735	(4) 2312	(5) 2412
208.	7 18 51 106 183 ? (1) 282 (2) 395	(3)	295	(4) 280	(5) None of these
209.	37 42 57 82 117 ?	(0)	250	(1) 200	(o) Notice of these
	(1) 166 (2) 162	(3)	157	(4) 159	(5) None of these
210.	33 321 465 537 573	591 ?			
	(1) 600 (2) 610	` '	590	(4) 595	(5) None of these
	Directions (Q. 211-215): In e		_	a number series is	given. In each series
-	ne number is wrong. Find out	_	g number,		
211.	17 20 46 147 599 3015				(-)
010	(1) 20 (2) 46	` '	599	(4) 147	(5) 3015
212.	9 14 40 129 536 2705 (1) 14 (2) 40		536	(4) 9	(5) 129
213.	8 18 64 272 1395 8424 5904	` '	330	(1))	(0) 123
210.	(1) 18 (2) 64		272	(4) 1395	(5) 8424
214.	90 135 286 750 2160 6			(1) 1000	(0) 0121
	(1) 90 (2) 750		6405	(4) 286	(5) 2160
215.	17 36 132 635 3500 21750 1				
	(1) 635 (2) 700	(3)	132	(4) 3500	(5) 36
	Directions (Q. 216-220): In 6	each of the	ese questions a	a number series is	given. In each series
only o	ne number is wrong. Find out	the wrong	g number.		
216.	3 14 40 84 155 258				
	(1) 84 (2) 14	(3)	40	(4) 155	(5) 258
	$\frac{3}{2}$ $\frac{2}{3}$ $\frac{5}{12}$ $\frac{3}{14}$ $\frac{7}{30}$	<u>4</u> 9	_		
217.		21 56	•		
	3 3		5	7	9
	(1) $_{2}$ (2) $_{14}$	(3)	12	⁽⁴⁾ 30	⁽⁵⁾ 56
	20 15 <u>42</u> <u>28</u>	<u>72</u>			
218.	$6 \ 6 \ \overline{3} \ \overline{2} \ 5 \ 3$	11			
	20		15	28	72
	(1) 6	(3)		(4)	(5) 11
	(1) 6 (2) 3	(-)	4	(4) 3	` ' 11

· / I U	6 24 60 120 210	340 504			
219.			240 (4)) 010 (F)	504
	(1) 24 (2) 60	, ,	340 (4)) 210 (5)	504
220.	3 4 16 75 366 19				
	(1) 16 (2) 366	(3)	75 (4)) 1945 (5)	11886
	Directions (Q. 221-225):			umber series is giv	en. In each series
only (one number is wrong. Find	out that num	ber.		
221.	5 22 56 116 205 33	30 497			
	(1) 5 (2) 56	(3)	116 (4)) 330 (5)) 497
222.	14 29 50 77 110 1	50 194			
	(1) 14 (2) 29	(3)	77 (4)) 150 (5)	194
223.	176 275 396 539 704	, ,	(.)	, 100	, 25.
220.	(1) 176 (2) 275		539 (4)) 704 (5)	998
		(3)	339 (4)) 704 (5)	990
224.	10 50 70	118 13	0		
224.	3 10 3 3	3 3			
	70			118	130
	(1) 10 (0)	(3)	30 (4)	(E)	
	(1) 10 (2) 3	(3)	30 (4)	3 (5)	3
225.	5625 5776 5929	6085 6241	6400 6561		
	(1) 5625 (2) 59	29 (3)	6085 (4)) 6400 (5)	6561
	Directions (Q. 226-2230)	: What will co	ome in place of qu	uestion mark (?) i	n the following
numl	er series?				
226.	2 123 223 ? 368 417	•			
	(1) 392 (2) 304	` '	287 (4)) 225 (5)	227
267.	16 896 1336 ? 1666				
	(1) 1556 (2) 156		1586 (4)) 1436 (5)	None of these
228.	19 46 110 235 ? 7	794			
	(1) 351 (2) 551	(3)	451 (4)) 345 (5)	349
229.					
	13 36 70 ? 179 258				
	(1) 115 (2) 106	(3)	109 (4)) 117 (5)	128
230.	(1) 115 (2) 106 679 1230 2332 3985 ?	(3) 8944			
	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198	(3) 8944 3 (3)	6109 (4)) 6289 (5)	6189
230.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1	(3) 8944 3 (3)	6109 (4)) 6289 (5)	6189
230.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): Inumber.	(3) 8944 3 (3) In the followin	6109 (4)) 6289 (5)	6189
230.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205	(3) 8944 3 (3) In the followin	6109 (4) ng number series,) 6289 (5) , only one number	6189 is wrong. Find out
230. that 1 231.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): Inumber. 2 6 9 36 39 200 205 (1) 6 (2) 36	(3) 8944 3 (3) In the followin	6109 (4) ng number series,) 6289 (5) , only one number	6189
230.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389	(3) 8944 3 (3) In the followin 5 (3) 514 667	6109 (4) ng number series, 205 (4)) 6289 (5) , only one number) 200 (5)	is wrong. Find out
230. that is 231.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3)	6109 (4) ng number series, 205 (4)) 6289 (5) , only one number) 200 (5)	6189 is wrong. Find out
230. that 1 231.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3) 468 558	6109 (4) ng number series, 205 (4) 389 (4)) 6289 (5) , only one number) 200 (5)) 667 (5)	6189 is wrong. Find out 39
230. that is 231.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393 (1) 558 (2) 258	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3) 468 558 (3)	6109 (4) ng number series, 205 (4) 389 (4) 334 (4)) 6289 (5) , only one number) 200 (5)) 667 (5)) 393 (5)	6189 is wrong. Find out 39 292 468
230. that 1 231. 232. 233.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393 (1) 558 (2) 258 Directions (Q. 234-238):	(3) 8944 3 (3) In the following (3) 514 667 (3) 468 558 (3) In each of the	6109 (4) ng number series, 205 (4) 389 (4) 334 (4) ese questions a number series,) 6289 (5) , only one number) 200 (5)) 667 (5)) 393 (5)	6189 is wrong. Find out 39 292 468
230. that is 231. 232. 233.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393 (1) 558 (2) 258 Directions (Q. 234-238): 200 ne number is Wrong. Find	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3) 468 558 (3) In each of the out that num	6109 (4) ng number series, 205 (4) 389 (4) 334 (4) ese questions a number.) 6289 (5) , only one number) 200 (5)) 667 (5)) 393 (5)	6189 is wrong. Find out 39 292 468
230. that 1 231. 232. 233.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393 (1) 558 (2) 258 Directions (Q. 234-238): 200 205	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3) 468 558 (3) In each of the out that num 567 800	6109 (4) ng number series, 205 (4) 389 (4) 334 (4) ese questions a number. 1089) 6289 (5) , only one number) 200 (5)) 667 (5)) 393 (5) umber series is given	is wrong. Find out 39 292 468 7en. In each series
230. that is 231. 232. 233.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393 (1) 558 (2) 258 Directions (Q. 234-238): 200 205 Directions (Q. 234-238): 200 205	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3) 468 558 (3) In each of the out that num 567 800 (3)	6109 (4) ng number series, 205 (4) 389 (4) 334 (4) ese questions a number. 1089 244 (4)) 6289 (5) , only one number) 200 (5)) 667 (5)) 393 (5) umber series is given	6189 is wrong. Find out 39 292 468
230. that is 231. 232. 233.	(1) 115 (2) 106 679 1230 2332 3985 ? (1) 6819 (2) 6198 Directions (Q. 231-233): 1 number. 2 6 9 36 39 200 205 (1) 6 (2) 36 169 183 223 292 389 (1) 183 (2) 223 243 258 288 334 393 (1) 558 (2) 258 Directions (Q. 234-238): 200 205	(3) 8944 3 (3) In the followin 5 (3) 514 667 (3) 468 558 (3) In each of the out that num 567 800	6109 (4) ng number series, 205 (4) 389 (4) 334 (4) ese questions a number. 1089 244 (4) 5 1615) 6289 (5) , only one number) 200 (5)) 667 (5)) 393 (5) umber series is given	is wrong. Find out 39 292 468 7en. In each series

71													
	15	105	693	715	<u>1615</u>								
	(1)	(0)	(3)	(4)	(5) 96								
236.	0	⁽²⁾ 16 38 63 104	80 164 265	⁽⁴⁾ 56									
	(1) 63	(2) 25	(3) 38	(4) 104	(5) 265								
237.	287496 274625	` '	` '	226981 216000	(-)								
	(1) 287496	(2) 274625	(3) 262144	(4) 246078	(5) 216000								
238.	42 63 94.5 1	141.75 212.92	318.9375 4	78.40625									
	(1) 94.5	(2) 63	(3) 42	(4) 212.92	(5) 478.40625								
Directions (Q. 239-243): In each question a number series is given. In each series only one													
numb	er is wrong. Find o	out that number.											
220	25 41 61	85 113 145	181										
239.	<u>12</u> <u>20</u> <u>30</u>	40 56 72	90										
	25	61	113	181	85								
	(1)	(2)	(2)	(4) 90	(5) 40								
240.	12 14 39 84 1	30 .56 258 399	⁽³⁾ 56 584	(1)									
210.	(1) 14	(2) 156	(3) 84	(4) 258	(5) 584								
241.	421875 438976	` '		512000 531441	(6) 66.								
	(1) 421875	(2) 493039	(3) 474551	(4) 531441	(5) 512000								
	9 35 94	189 341 5	559 855										
242.	5 13 25	41 61	85 113										
				0.41									
	855 (1)	35	94 (3) 25	341	(5) <u>85</u>								
	113	(2) 13	(5) 25	^(¬) 61	⁽⁵⁾ 85								
	9 35	<u>59</u> <u>77</u>	104 13.5										
243.	4 6	7 8	9										
	9	77	35	104	59								
	(1)	(2) _Q	(3)	(4) ₉	(5) ₇								
	Directions (Q. 244-246): In the following number series, only one number is wrong. Find out												
that number.													
244.	2 36 150		52 2366										
	(1) 810	(2) 393	(3) 36	(4) 2	(5) 1452								
245.	88 115 145	175 208	243 280										
	(1) 88	(2) 175	(3) 145	(4) 243	(5) 280								
246.	448 294 180	100 48	19 4										
	(1) 4	(2) 180	(3) 294	(4) 100	(5) 19								
Directions (Q. 247-251): In each of these questions a number series is given. In each series													
only one number is wrong. Find out that number.													
247.	6 60	210 500	990	1716 2730									
	(1) 60	(2) 210	(3) 500	(4) 990	(5) 1716								
248.	4 12	24 36	52	69 84									
	(1) 84	(2) 24	(3) 36	(4) 52	(5) 69								
249.	8 12	18 27	40.5	60 91.125									
	(1) 60	(2) 18	(3) 40.5	(4) 91.125	(5) 27								
250.	999 1331	1727 1098		3375 4095	` '								
	(1) 3374	(2) 1331	(3) 1098	(4) 3300	(5) 4095								
	(1) 0011	(-) 1001	(0) 1000	(1) 3000	(0) 1000								

(5) 904 253. 9 333 ? 785 929 1029 (1) 572 (2) 589 (3) 596 (4)602(5) 616 254. 1328 1722 2732 ? 2188 3360 (1) 4072 (2) 4075 (3) 4078 (4)4081(5) 4084 255. 13 570 2846 11376 34116 (1) 84 (2) 91 (3) 95(4)98(5) 102 34 44 ? 256. 47 41 55 38 76 (1) 29(2) 27 (3) 25 (4) 22(5) 18

Directions (Q. 257-259): What should come in place of question mark (?) in the following number series.

257.	10 22 8 24 6 ?							
	(1) 16	(2) 18	(3) 12	(4) 26	(5) None of these			
258.	60.5 72 84.5 98 112.5 ?							
	(1) 125	(2) 122	(3) 126	(4) 127	(5) None of these			
259.	96 107 129 162 206 ?							
	(1) 258	(2) 261	(3) 256	(4) 260	(5) 252			

Directions (Q. 260-264): In each of these questions a number series is given. In each series only one number is wrong. Find out that number.

260.	2 12 36	81 150 252										
	(1) 2	(2) 81	(3) 36	(4) 150	(5) 252							
261.	5 16 27	44 65 90										
	(1) 16	(2) 5	(3) 44	(4) 65	(5) 90							
262.	4 2 0 -5 -12 -21											
	(1) 0	(2) 4	(3) 2	(4) -5	(5) -21							
263.	101 123	149 179 218	251									
	(1) 251	(2) 123	(3) 179	(4) 218	(5) 101							
264.	9 21 45	101 211 433	879									
	(1) 21	(2) 45	(3) 211	(4) 433	(5) 101							

SHORT ANSWER

1. (2)	2.	(4)	3.	(2)	4.	(5)	5.	(1)	6.	(2)	7.	(3)	8.	(4)
9. (2)	10.	(1)	11.	(4)	12.	(4)	13.	(1)	14.	(5)	15.	(3)	16.	(3)
17. (5)	18.	(5)	19.	(1)	20.	(3)	21.	(3)	22.	(1)	23.	(4)	24.	(5)
25. (1)	26.	(3)	27.	(1)	28.	(2)	29.	(3)	30.	(4)	31.	(2)	32.	(3)
33. (1)	34.	(5)	35.	(2)	36.	(3)	37.	(4)	38.	(1)	39.	(2)	40.	(2)
41. (1)	42.	(2)	43.	(3)	44.	(1)	45.	(3)	46.	(2)	47.	(5)	48.	(2)
49. (1)	50.	(3)	51.	(3)	52.	(2)	53.	(1)	54.	(5)	55.	(1)	56.	(5)
57. (3)	58.	(1)	59.	(3)	60.	(2)	61.	(3)	62.	(2)	63.	(1)	64.	(2)
65. (5)	66.	(4)	67.	(2)	68.	(1)	69.	(4)	70.	(3)	71.	(3)	72.	(5)
73. (2)	74.	(4)	75.	(3)	76.	(2)	77.	(1)	78.	(5)	79.	(1)	80.	(4)
81. (2)	82.	(1)	83.	(2)	84.	(4)	85.	(2)	86.	(2)	87.	(1)	88.	(4)
89. (3)	90.	(4)	91.	(2)	92.	(3)	93.	(2)	94.	(1)	95.	(5)	96.	(2)
97. (1)	98.	(3)	99.	(5)	100.	(4)	101.	(2)	102.	(4)	103.	(5)	104.	(1)
105. (2)	106.	(4)	107.	(4)	108.	(1)	109.	(2)	110.	(1)	111.	(4)	112.	(3)
113. (1)	114.	(1)	115.	(4)	116.	(3)	117.	(2)	118.	(4)	119.	(2)	120.	(4)
121. (3)	122.	(1)	123.	(3)	124.	(4)	125.	(2)	126.	(3)	127.	(5)	128.	(1)
129. (5)	130.	(3)	131.	(2)	132.	(1)	133.	(3)	134.	(3)	135.	(2)	136.	(4)
137. (5)	138.	(3)	139.	(3)	140.	(2)	141.	(5)	142.	(5)	143.	(1)	144.	(1)
145. (4)	146.	(4)	147.	(4)	148.	(3)	149.	(3)	150.	(1)	151.	(2)	152.	(4)
153. (5)	154.	(2)	155.	(2)	156.	(1)	157.	(5)	158.	(4)	159.	(2)	160.	(1)
161. (5)	162.	(3)	163.	(1)	164.	(4)	165.	(3)	166.	(1)	167.	(4)	168.	(2)
169. (2)	170.	(2)	171.	(3)	172.	(1)	173.	(2)	174.	(1)	175.	(5)	176.	(3)
177. (3)	178.	(3)	179.	(3)	180.	(2)	181.	(4)	182.	(5)	183.	(1)	184.	(2)
185. (1)	186.	(1)	187.	(4)	188.	(2)	189.	(5)	190.	(1)	191.	(2)	192.	(5)
193. (4)	194.	(1)	195.	(5)	196.	(5)	197.	(1)	198.	(3)	199.	(2)	200.	(5)
201. (1)	202.	(4)	203.	(5)	204.	(4)	205.	(1)	206.	(5)	207.	(4)	208.	(1)
209. (2)	210.	(1)	211.	(3)	212.	(2)	213.	(2)	214.	(4)	215.	(1)	216.	(3)
217. (2)	218.	(5)	219.	(3)	220.	(2)	221.	(2)	222.	(4)	223.	(5)	224.	(4)
225. (3)	226.	(2)	227.	(1)	228.	(3)	229.	(4)	230.	(5)	231.	(5)	232.	(1)
233. (3)	234.	(3)	235.	(5)	236.	(4)	237.	(4)	238.	(4)	239.	(5)	240.	(2)
241. (4)	242.	(3)	243.	(5)	244.	(2)	245.	(3)	246.	(5)	247.	(3)	248.	(5)
249. (1)	250.	(2)	251.	(4)	252.	(4)	253.	(2)	254.	(3)	255.	(3)	256.	(1)
257. (4)	258.	(5)	259.	(2)	260.	(2)	261.	(1)	262.	(3)	263.	(4)	264.	(2)

DETAIL - EXPLANATIONS

- 1. 2; The number should be 60. $+ 3^2 + 2$, $+4^2 + 3$, $+ 5^2 + 4$...
- 2. 4; The number should be 416. \times 1 + 5, \times 2 + 10, \times 3 + 15, \times 4 + 20 ...
- 3. 2; The number should be 63. $(1 \times 2 \times 3) + 1$, $(2 \times 3 \times 4) + 2$, $(3 \times 4 \times 5) + 3$
- 4. 5; The number should be 324. $1 \times 2^2 + 5$, $2 \times 3^2 + 10$, $3 \times 4^2 + 15$, $4 \times 5^2 + 20$
- 5. 1; The number should be 58. $1^3 + 25$, $2^3 + 50$, $3^3 + 75$, $4^3 + 100$...
- 6. 2; The number should be 738. 3³ + 3, 6³ 6, 9³ + 9, 12³ 12...
- 7. 3; The number should be 652. $1440, 1440 - (17)^2 + 1, 1440 - (15)^2 + 3, 1440$ $- (13)^2 + 5, 1440 - (11)^2 + 7$
- 8. 4; The number should be 174. \times 3 + 5, \times 3 + 10, \times 3 + 15
- 9. 2; The number should be 217. \times 1 + 15, \times 2 + 20, \times 3 + 25, \times 4 + 30
- 10. 1; The number should be 9277. $+(21)^3$, $+(18)^3$, $+(15)^3$
- 11. 4; $1 \times 7 = 7$ $7 \times 7 = 49$ $49 \times 7 = 343$ $343 \times 7 = 2401$
- 12. 4; $13 + 2^2 + 3 = 20$ $20 + 4^2 + 3 = 39$ $39 + 6^2 + 3 = 78$ $78 + 8^2 + 3 = 145$ $145 + 10^2 + 3 = 248$
- 13. 1; $12 \times 2 + 11 = 35$ $35 \times 2 + 11 = 81$ $81 \times 2 + 11 = 173$ $173 \times 2 + 11 = 357$ $357 \times 2 + 11 = 725$
- 14. 5; 3 + 97 = 100 100 + 197 = 297 297 + 297 = 594 597 + 397 = 991 991 + 497 = 1488
- 15. 3; $112 + 7 \times 1 = 119$ $119 + 7 \times 3 = 140$ $140 + 7 \times 5 = 175$ $175 + 7 \times 7 = 224$ $224 + 7 \times 9 = 287$

- 16. 3; The number should be 81. The ser ies is $+ 1^2 \times 1$, $+ 2^2 \times 2$, $+ 3^2 \times 3$...
- 17. 5; The number should be 247. The series is $21 + 1^2$, $42 + 3^2$, $63 + 5^2$, $84 + 7^2$...
- 18. 5; The number should be 287. The series is $+ 1^2 + 1^3$, $+ 2^2 + 2^3$, $+ 3^2 + 3^3$...
- 19. 1; The number should be 19.

 The series is ×2 + 13, ×3 + 26, ×4 + 39...
- 20. 3; The number should be 106. The series is + 1^4 + 2^4 , + 3^4 , + 4^4 ...
- 21. 3; The number should be 1092. \times 5 + 9, \times 5 + 18, \times 5 + 27 ...
- 22. 1; The number should be 142. $+ 5^3$, $+ 6^3$, $+ 7^3$, $+ 8^3$...
- 23. 4; The number should be 1487. × 3 4, × 4 5, × 5 6 ...
- 24. 5; The number should be 888. $+ 4^2$, $+ 8^2$, $+ 12^2$...
- 25. 1; The number should be 22. × 3 2, × 4 3, × 5 4 ...
- 26. 3; The number should be 123. $\times 1 + 3, \times 2 + 6, \times 3 + 9 \dots$
- 27. 1; The number should be 11. $\times 1 + 5, \times 2 + 10, \times 3 + 15...$
- 28. 2; The number should be 63. $+ 1 \times 2$, $+ 3 \times 3 + 5 \times 4 + 7 \times 5$...
- 29. 3; The number should be 480. -45×3 , -40×3 , -35×3 ...
- 30. 4; The number should be 2420.
- 31. 2; ${}^{+13}_{-1}$, ${}^{+7}_{15}$, ${}^{+7}_{15}$, ${}^{-14}$, ${}^{+33}$, 34 , ${}^{-12}$
- 32. 3; × 2 3, × 4 6, × 6 10, × 8 - 15, × 10 - 21
- 33. 1; \times 9 1, \times 8 3, \times 7 5, \times 6 7, \times 5 9
- 34. 5; $+ 1^3$, + 2, $+ 3^3$, + 4, $+ 5^3$
- 35. 2; +10, $+2^3$, +12, $+4^3$, +14, $+6^3$
- 36. 3; 17 19 33 67 129 227
 - $+2^{2}-2+4^{2}-2+6^{2}-2+8^{2}-2+10^{2}-2$
- 37. 4; 35 256 451 620 763 880
 - 221 195 169 143 117
 - 26 26 26 26

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75
38. 1
                                                                            6 \times 2^5 = 192
39. 2
                                                                            7 \times 2^4 = 112
40. 2
                                                                            8 \times 23 = 64
 41. 1; Series is \times 1 + 6; \times 2 + 12, \times 3 + 18...
                                                                   65. 5; The series is:
 42. 2; Series is \times 1 + 9^2, \times 2 + 8^2, \times 3 + 7^2, \times 4 + 6^2...
                                                                             1^3 + 17
 43. 3; Series is ×0.2, ×1.2, ×2.2, ×3.2 ...
                                                                             2^3 + 34
 44. 1: Series is + 978. + 1956. + 2934. + 3912 ...
                                                                             3^3 + 51
45. 3; Series is ×3 - 6, ×3 - 12, ×3 - 18, ×3 - 24 ...
                                                                             4^3 + 68
46. 2; +11^3, +12^3, +13^3, +14^3...
                                                                   66. 4: \times 3 + 1. \times 4 + 2. \times 5 + 3...
47. 5; \times 1 + 51, \times 2 + 102, \times 3 + 153 ...
                                                                   67. 2; + 4 \times 2, + 8 \times 3, + 12 \times 4
48. 2; ×1.5, ×3, ×4.5, ×6 ...
                                                                   68. 1; The series is based on' combination of two
49. 1; + 8 \times1, + 16 \times 2, + 24 \times 3 ...
                                                                              series. S_1 = +13, +26, +39... and S_2
 50. 3: + 2^5, + 3^5, + 4^5...
                                                                             +14, +21...
                                                                   69. 4; +36, +72, +144, +288...
 51. 3; This series is a combination of two series:
                                                                   70. 3; (22)^2, (27)^2, (32)^2, (37)^2...
           +117, +57, +234, +114, +351, +171
                                                                   71. 3: The series is +7^2 + 14^2 + 21^2 + \dots
                                                                   72. 5: The series is 40 \times 1.7, 80 \times 2.7, 120 \times 3.7,
 52. 2; \times 2 + 4, \times 3 + 8, \times 4 + 12 ...
                                                                              160 \times 4.7...
 53. 1; ×1.5, ×2, ×2.5, ×3
                                                                   73. 2; The series is 2^2 + 3, 4^2 + 5, 6^2 + 7, 8^2 + 9...
 54. 5; +4^3, +8^3, +12^3, +16^3
                                                                   74. 4; The series is 1 \times 3, 5 \times 7, 9 \times 11, 13 \times 15...
 55. 1; -2^4, -3^4, -4^4, -5^4
                                                                   75. 3; The series is 1^2 + 1, 3^2 + 3, 5^2 + 5, 7^2 + 7...
 56. 5; The number is 494.
                                                                   76. 2; +4^2, +6^2, +8^2, +10^2, +12^2,
           10<sup>2</sup>, +11, +12<sup>2</sup>, +13, +14<sup>2</sup>, +15 ...
                                                                   77. 1; \times 12 - 11, \times 10 - 9, \times 8 - 7, \times 6 - 5
 57. 3; The number is 2268.
                                                                   78.5: \times 3 - 5. \times 3 - 5. \times 3 - 5. \times 3 - 5
           +17^2, +19^2, +21^2, +23^2, +25^2...
                                                                   79. 1; 992, 982, 972, 962, 952, 942
 58. 1; The number is 14612.
                                                                   80. 4; 7^3 - 4 = 339
           \times 2 + 16, \times 3 + 26, \times 4 + 36, \times 5 + 46, \times 6 + 56
                                                                             9^3 + 4 = 733
                                                                              11^3 - 4 = 1327
 59. 3; The number is \times 2 + 27, \times 2 + 54, \times 2 + 81,
                                                                              13^3 + 4 = 2201
           ×2 + 108, ×2 +135 ...
                                                                              15^3 - 4 = 3371
 60. 2; The number is + (4 \times 3), +(5 \times 4), +(6 \times 5),
                                                                              17^3 + 4 = 4917
           +(7 \times 6), +(8 \times 7) \dots
                                                                   81. 2; (1)^4 + 2, (2)^4 - 2, (3)^4 + 2, (4)^4 - 2
 61. 3; The number is 1377.
                                                                   82. 1; \times 2 - 5, \times 3 - 10, \times 4 - 15
           215 \times 1 + 87; 215 \times 2 + 87; 215 \times 3 + 87;
                                                                   83. 2; 2^4 + 3^3, 3^4 + 4^3, 4^4 + 5^3, 5^4, 5^3 + 6^3
           215 \times 4 + 87; 215 \times 5 + 87; 215 \times 6 + 87...
                                                                   84. 4; 3^3, 3^3 + 11, 4^3, 4^3 + 22, 5^3 + 33
 62. 2; The number is 772.
                                                                   85. 2; 12, 12 + (12 \times 2 + 3) = 12 + 27 = 39
           192 + 100 = 292
                                                                             39 + (39 \times 2 + 3) = 39 + 81 = 120
           292 + 108 = 400
                                                                              120 + (120 \times 2 + 3) = 120 + 243 = 363
           400 + 116 = 516
                                                                   86. 2; 5
                                                                                     15
                                                                                            35
                                                                                                    75
                                                                                                           155
           516 + 124 = 640
           640 + 132 = 772
                                                                                  +10
                                                                                          +20 +40 +80 +160
 63. 1; The number is 89.
           19; + 10; + 12; + 14; + 16, + 18...
                                                                                                   72
                                                                   87. 1: 3
                                                                                     6
                                                                                           18
                                                                                                          360
 64. 2; The series is:
           3 \times 2^8 = 768
```

 $4 \times 2^7 = 512$ $5 \times 2^6 = 320$ ×3

×2.

×5

×6

×4

88. 4; 88 472 347 283 256 (?)

-216 -215 -64 -27 -8 $(6)^3$ $(5)^3$ $(4)^3$ $(3)^3$ $(2)^3$

- 89. 3; The series is $+1^3+2^2$, $+2^3+3^2$, $+3^3+4^2$...
- 90. 4; The series is $-1^3 \times 2$, $-2^3 \times 3$, $-3^3 \times 4$...
- 91. 2; The series is $\times 3 9$, $\times 3 19$, $\times 3 29$...
- 92. 3; The series is $+(111)^2$, $+(101)^2$, $+(91)^2$, $+(81)^2$...
- 93. 2; The series is \times 0.2, \times 0.3, \times 0.4, \times 0.5...
- 94. 1; The series is $+(1^3 + 2^3)$, $+(2^3 + 3^3)$, $+(3^3 + 4^3)$...
- 95. 5; The series is + (6×2) , + (18×2) , + (54×2) ...
- 96. 2; The series is $+4^2$, $+8^2$, $+12^2$, $+16^2$...
- 97. 1; The series is -32², -28², -24², -20²...
- 98. 3; The series is $\times 2 + 5$, $\times 2 + 10$, $\times 2 + 15$...
- 99. 5; The series is 3×24 , 5×19 , 7×17 , 9×15 , 11×13 , 13×11 ...
- 100. 4; The series is $+2^4$, $+3^4$, $+4^4$, $+5^4$...
- 101. 2; The series is $\times 3 + 8$, $\times 3 + 16$, $\times 3 + 24$...
- 102. 4; The series is $69^2 + 69$, $67^2 + 67$, $65^2 + 65$, $63^2 + 63$...
- 103. 5; The series is $-2^3 + 1$, $-3^3 + 2$, $-4^3 + 3$, $-5^3 + 4$...
- 104. 1; The number should be 5555 in place of 5531. -7², -9², -11², -13², -15², -17²...
- 105. 2; The number should be 21 in place of 426. +1, +2, +4, +8, +16, +32
- 106. 4; The number should be 770 in place of 760. $\times 1 + 2$, $\times 2 + 4$, $\times 3 + 6$, $\times 4 + 8$, $\times 5 + 10$, $\times 6 + 12$, ...
- 107. 4; The series is $0^2 + 4$, $1^2 + 2$, $3^2 + 0$, $6^2 2$, $10^2 4$, $15^2 6$, $21^2 8$...

Hence, 435 should be replaced with 433

- 108. 1; The number should be 2 in place of $1 \div 3.5$, $\div 3$, $\div 2.5$, $\div 2$, $\div 1.5$, $\div 1$, ...
- 109. 2; The series is ×2 4, ×4 8, ×6 12, ×8 16, ×10 20...
- 110. 1; The series is $\times 3 + 1$, $\times 7 + 2$, $\times 11 + 3$, $\times 15 + 4$...
- 111. 4; The series is ×10 3, ×9 6, ×8 9, ×7- 12, ×6 15...
- 112. 3; The series is $\times 8 + 13$, $\times 7 + 26$, $\times 6 + 39$, $\times 5 + 52$, $\times 4 + 65$
- 113. 1; The series is $+9^3$, $+8^3$, $+7^3$, $+6^3$, $+5^3$...
- 114. 1; The series is $2 \times 9^2 1$, $2 \times 10^2 1$, $2 \times 11^2 1$, $2 \times 12^2 1$, $2 \times 13^2 1$, $2 \times 14^2 1$,
- 115. 4; The series is 141, $+(14)^3$, $+(12)^3$, $+(10)^3$...
- 116. 3; The series is ×2.5, +4, ×2.5, +4...
- 117. 2; $15 \times 2.9 = 43.5$

- $15 \times 3.8 = 57$ $15 \times 4.7 = 70.5$ $15 \times 5.6 = 84$
- $15 \times 6.5 = 97.5$ $15 \times 7.4 = 111$
- 118. 4; The series is 5, $5 + 9^2 + 1 = 87$, $87 + 8^3 + 2 = 601$, $601 + 7^4 + 3 = 3005$, $3005 + 6^5 + 4 = 10785$, $10785 + 5^6 + 5$
- 119. 2; The series is $89^2 + 1$, $88^2 + 2$, $87^2 + 3$,...
- 120. 4; The series is $7 + 7^2$ 2, $8 + 8^2$ 4, $9 + 9^2$ -6, $10+10^2$ 8...
- 121. 3; The series is +14, +42, +126, +378...
- 122. 1; The series is $+11^3$, $+9^3$, $+7^3$, $+5^3$...
- 123. 3; $36 \times 2 + 5 = 77$, $\therefore 77 \times 3 + 10 = 241$, $\therefore 241 \times 4 + 15 = 979$,
- 124. 4; The series is $(11)^3$ 11, $(10)^3$ 10, $(9)^3$ 9...
- 125. 2; The series is \times 9 + 1, \times 8 + 3, \times 7 + 5...
- 126. 3; The series is 9^2 , 8^3 , 7^4 , 6^5 , 5^6 ...
- 127. 5; The series is -119, -238, -357, -476...
- 128. 1; The series is \times 3 9, \times 3 8, \times 3 7, \times 3 6...
- 129. 5; The series is + 17^2 17, + 15^2 15, + 13^2 13 ...
- 130. 3; The series is $+8^3$, $+12^3$, $+16^3$, $+20^3$, ...
- 131. 2; The series is $2^2 + 4^2$, $6^2 + 8^2$, $10^2 + 12^2$, $14^2 + 16^2$...
- 132. 1; The series is -24², -21², -18², -I5²...
- 133. 3; The series is $+10^3$ 10, 9^3 9, $+8^3$ -8 ...
- 134. 3; 20^2 , 16^2 , - 12^2 , 8^2 , 4^2
- 135. 2; +46, +92, +138, +184, +230
- 136. 4; +(11×1+0), +(11×3+2), +(11×5+4), +(11×7+6), +(11×9+8), ...
- 137. 5; The given series is a combination of two series.

Pattern I: 454 648 842 1036 194 added in each subsequent term.

Pattern II: 327 521 715 194 added in each subsequent term. Hence 713 should be replaced with 715.

- 138. 3; +13.5, +27, +54, +108, +216, +432 Hence, 168 should be replaced with 167.
- 139. 3; The series is $+3^2$, $+5^2$, $+7^2$, $+9^2$, $+11^2$, $+13^2$, $+15^2$...
- 140. 2; The series is $+35^2$, $+40^2$, $+45^2$, $+50^2$, $+55^2$...
- 141. 5; The series is $(+2^2) \times 17$, $(+3^2) \times 15$, $(+4^2) \times 13$...
- 142. 5; The series is 240, $(240 + 2^2) 9^2 = 163$, $(163 + 3^2) 8^2 = 108$, $(108 + 4^2) 7^2 = 75$, $(75 + 5^2) 6^2 = 64$, $(64 + 6^2) 5^2 = 75$
- 143. 1; The series is 12.8×0.9 , 12.7×0.8 , 12.6×0.9

- $0.7.12.5 \times 0.6...$
- 144. 1; The series is $+(2^2+3)$, $+(3^2+4)$, $+(4^2+5)$, $+ (6^2 + 7) \dots$
- 145. 4; The series is $+9^2$, $+8^2$, $+7^2$...
- 146. 4; The series is 5, 5×3.2 , 6×4.3 , 7×5.4 , 8×4.3 $6.5, 9 \times 7.6, 10 \times 8.7 \dots$
- 147. 4; The series is $+5^2$, +6, $+7^2$, +8, $+9^2$, +10...
- 148. 3; $1 + 3^3 = 28$; $28 + 4^3 = 92$; $92 + 5^3 = 217$; 217 174. 1; The series is $5^3 + 5^2$, $6^3 + 6^2$, $7^3 + 7^2$, $8^3 + 8^2$, $+6^3 = 443$; $443 + 7^3 = 779$; $779 + 8^3 = 1288$
- 149. 3; The series is $+2^3 1$, $+3^3 2$, $+4^3 3$...
- 150. 1; The series is $(68 5) \times 2$, $(126 15) \times 13$, $(333 - 25) \times 4, ...$
- 151. 2; The series is $(+2^3 5)$, $(+3^3 10)$, $(+4^3 15)$,
- 152. 4; The series is ×1.5, ×2.5, ×3.5 ×4.5...
- 153. 5; The series is $\times 0.5 + 2$, $\times 2 + 4$, $\times 0.5 + 6$, $\times 2$ + 8...
- 154. 2; The series is +154, +182, +210, +238, +266 ...
- 155. 2; The series is -49.5, -38.5, -27.5, -16.5, - 5.5 ...
- 156. 1; The series is +19.2, +38.4, +76.8, +153.6...
- 157. 5; The series is +118, +78, +46, +22, +6 ... The number should be 300 + 6 = 306
- 158. 4; The series is $+8^3$, -7^2 , $+6^3$, -5^2 , $+4^3$... The number should be 678 + 64 = 742
- 159. 2; The series is $6^3 + 16$, $7^3 + 17$, $8^3 + 18$, $9^3 +$
- 160. 1; The series is $\times 4$ 3, \times 5 -4, $\times 6$ 5 ...
- 161. 5; The series is +248, +496, +992, +1984
- 162. 3; The series is $\times 5 9$
- 163. 1: The series is 27 $27 + 7^3 = 370$ $370 + 9^3 = 1099$ $1099 + 11^3 = 2430$ $2430 + 13^3 = 4627$
- 164. 4; The series is $+3^3$, $+4^3$, $+5^3$, $+6^3$...

 $4627 + 15^3 = 8002$

- 165. 3; The series is \times 2 + 4, \times 4 + 6, \times 6 + 8, \times 8 +
- 166. 1; The series is $(2 \times 4) + 5 = 13$ $(4 \times 6) + 15 = 39, (6 \times 8) + 25 = 73$ $(8 \times 10) + 35 = 115, (10 \times 12) + 45 = 165 \dots$
- 167. 4; The series is $\times 1 + 6$, $\times 2 + 12$, $\times 3 + 18$, $\times 4$ + 24 ...
- 168. 2; The series is $(5 \times 1.2) + 5 = 11$, $(15 \times 1.4) +$ $10 = 31, (25 \times 1.6) + 15 = 55, (35 \times 1.8) + 20$ = 83 $(45 \times 2.0) + 25 = 115, (55 \times 2.2) + 30 = 151$ $(65 \times 2.4) + 35 = 191$
- 169. 2; The series is $(21)^2 12$, $(19)^2 10$ $(17)^2 8$, $(15)^2 - 6$, $(13)^2 - 4$, $(11)^2 - 2$, ...
- 170. 2; The series is $(10)^3 (10)^2$, $(9)^3 + (9)^2 (8)^3 (8)^2$, $(7)^3$ + $(7)^2$, $(6)^3$ - $(6)^2$, $(5)^3$ + $(5)^2$...

- 171. 3; The series is $(17 \times 19 + 7)$, $(15 \times 17 + 6)$, $(13 \times 15 + 5)$, $(11 \times 13 + 4)$, $(9 \times 11 + 3)$,
- 172. 1; The series is 7×9.5 , 11×8.5 , 15×7.5 , 19 \times 6.5, 23 \times 5.5, 27 \times 4.5, ...
- 173. 2; The series is $(6 \times 9 15)$, $(8 \times 8 16)$, $(10 \times 9 15)$ 7 - 17), $(12 \times 6 - 18)$, $(14 \times 5 - 19)$ $(16 \times 4 -$ 20), $(18 \times 3 - 21)$, ...
- $9^3 + 9^2$, $10^3 + 10^2$... There should be 1100 in place of (?) mark.
- 175. 5; The series is $+(3600 \times 1)$, $+(3600 \times 2)$, + (3600×3) , + (3600×4) , + (3600×5) , ... There should be 54100 in place of (?) mark.
- 176. 3; The series is (39² 39), (38² 38), (37² -37), $(36^2 - 36)$, $(35^2 - 35)$, $(34^2 - 34)$ There should be 1260 in place of (?) mark.
- 177. 3; The series is (1×2) , (3×4) , (5×6) , $[7 \times 8)$, $(9 \times 10), (11 \times 12), ...$ There should be 90 in place of (?) mark.
- 178. 3; The series is (31×33) , (34×36) , (37×39) , $(40 \times 42), (43 \times 45), ...$ There should be 1443 in place of (?) mark.
- 179. 3; The series is $(12^3 12)$, $(11^3 11)$, $(10^3 -$ 10), $(9^3 - 9)$, $(8^3 - 8)$, $(7^3 - 7)$, $(6^3 - 6)$,.... There should be 990 in place of 1000.
- 180. 2; The series is 35^2 (3 + 5), 33^2 (3 + 3), 31^2 $-(3+1), 29^2 - (2+9), 27^2 - (2+7), 25^2 - (2+$ 5), 23^2 - (2 + 3) ... There should be 830 in place of 833.
- 181. 4; The series is $16 \times 6 7^2$, $47 \times 5 6^2$, 199×10^{-2} $4 - 5^2$, $771 \times 3 - 4^2$, $2297 \times 2 - 3^2$, $4585 \times 1 - 2^2$ There should be 2297 in place of 2283.
- 182. 5; The series is $14^3 + (1 + 4)^2$, $13^2 + (1 + 3)^2$, $12^3 + (1 + 2)^2$, $11^3 + (1 + 1)^2$, $10^3 + (1 + 0)^2$, 9^3 $+ (9 + 0)^2, 8^3 + 8^2$ There should be 1001 in place of 10001.
- 183. 1; The series is $15 \times 11,13 \times 22, 11 \times 33, 9 \times 10^{-2}$ $44, 7 \times 55, 5 \times 66, 3 \times 77.$ There should be 330 in place of 350.
 - 184. 2; The series is 19^3 38, 18^3 + 36, 17^3 34, $16^3 + 32$, $15^3 - 30$, $14^3 + 28$, $13^3 - 26$... There should be 4128 in place of 4130
- 185. 1; The series is $33^2 + (3 + 3)$, $35^2 (3 + 5)$, 37^2 $+ (3 + 7), 39^{2} - (3 + 9), 41^{2} + (4 + 1), 43^{2} - (4$ $+ 3), 45^2 + (4 + 5) ...$ There should be 1509 in place of 1508
- 186. 1; The series is 21×1.5 , 19×2.5 , 17×3.5 ; 15×4.5 , 13×5.5 , 11×6.5 , 9×7.5 ... There should be 71.5 in place of 79.5
- 187. 4; The series is $3^2 + 6$, $4^2 8$, $5^2 + 10$, $6^2 12$, $7^2 + 14, 8^2 - 16, 9^2 + 18, ...$ There should be 48 in place of 49.

- 188. 2: The series is 44×3 , 40×5 , 36×7 , 32×9 , $28 \times 11, 24 \times 13, 20 \times 15 \dots$ There should be 252 in place of 253.
- 189. 5; The series is $16 \times 3 + 5$, $14 \times 6 10$, 12×9 213. 2; The number should be 63 in place of 64. + 15, 10 × 12-20 ...
- 190. 1; The seri es is $5^3 + 5 + 15$, $6^3 6 30$, $7^3 + 7$ $+45, 8^3 - 8 - 60, 9^3 + 9 + 75 \dots$
- 191. 2; The series is $16 \times 0.5 + 4$, $32 \times 1.0 8$, 48 \times 1.5 + 12, 64 \times 2 - 16 ...
- 192. 5; The series is $(12 \times 7.5) \times 2$, $(14 \times 6.5) \times 4$, $(16 \times 5.5) \times 6$, $(18 \times 4.5) \times 8$...
- 193. 4; The series is $(1^4 \times 2) 1$, $(2^4 \times 2) + 1$, $(3^4 \times 2)$ $-1, (4^4 \times 2) + 1 \dots$
- 194. 1; The series is $(3^3 \times 1) + 1$, $(4^3 \times 2) 2$, $(5^3 \times 1) + 1$ 3) + 3, $(6^3 \times 4)$ - 4
- 195. 5; The series is \times 2 + 1³, \times 3 + 2³, \times 4 + 3³, \times 5
- 196. 5; The series is 23², 29², 31², 37²...
- 197. 1; The series is $+3^2$, $+5^2$, $+7^2$, $+11^2$, $+13^2$, ...
- 198. 3; The series is +120, +128, +136, +... +160, ...
- 199. 2; The series is $\times 1 + 2$, $\times 2 + 4$, $\times 3 + 6$, $\times 4 + 8$, $\times 5 + 10, \times 6 + 12 \dots$
- 200. 5; The series is -3, -9, -27, -81, -243 ...
- 201. 1; The series is $1^3 \times 3$, $3^3 \times 3$, $5^3 \times 3$, $7^3 \times 3$, ...
- 202. 4; Each numberis a pri me number multiplied by 15. Thus, the series is 15×2 , 15×3 , 15×5 , $15 \times 7, 15 \times 11, ...$
- 203. 5; The series is $\times 3$, $\div 2$, $\times 3$, $\div 2$, ...
- 204. 4; The series is ÷6, ÷5, ÷4, ÷3 ...
- 205. 1; The series is $(3^3 1)$, $(4^3 1)$, $(5^3 1)$, $(6^3 1)$, $(7^3 1)$...
- 206. 5; The series is +20, +22, +24, +26, +28 ...
- 207. 4; The series is $2 \times 6 + 6 = 18$ $18 \times 5 + 5 = 95$ $95 \times 4 + 4 = 384$ $384 \times 3 + 3 = 1155$ $1155 \times 2 + 2 = 2312$
- 208. 1; The series is $+(11 \times 1)$, $+(11 \times 3)$, $+(11 \times 5)$, $+(11 \times 7)...$
- 209. 2; The series is $37 + (5 \times 1) = 42$ $42 + (5 \times 3) = 57$ $57 + (5 \times 5) = 82$ $82 + (5 \times 7) = 117$ $117 + (5 \times 9) = 162$
- 210. 1; The series is $+(9 \times 32)$, $+(9 \times 16)$, $+(9 \times 8)$, $+(9 \times 4), (9 \times 2) \dots$
- 211. 3; The number should be 600 in place of 599.

- The series is $\times 1 + 3$, $\times 2 + 6$, $\times 3 + 9$, ...
- 212. 2; The number should be 38 in place of 40. The series is $\times 1 + 5$, $\times 2 + 10$, $\times 3 + 15$...
- The series is $(8 + 1) \times 2$, $(18 + 3) \times 3$, $(63 + 5) \times 4, ...$
- 214. 4; The number should be 285 in place of 286. The series is $(90 - 45) \times 3$, $(135 - 40) \times 3$, $(285 - 35) \times 3, ...$
- 215. 1; The number should be 636 in place of 635. The series is $(17 + 1^3) \times 2$, $(36 + 2^3) \times 3$, $(132 + 3^3) \times 4$, $(636 + 4^3) \times 5$, ...
- 216. 3; The series is $1 + 1^2 + 1^3$, $2 + 2^2 + 2^3$, $3 + 3^2 + 3^3$, $4 + 4^2 + 4^3$, $5 + 5^2 + 5^3$, $6 + 6^2 + 6^3$. There should be 39 in place of 40.
- 217. 2; The series is

There should be 10 in place of 14.

218. 5; The series is

$$\begin{array}{c} 3\times2 \\ 1 = 6, \ 2 = 6, \ 3 = \frac{20}{3}, \\ \\ \frac{6\times5}{4} = \frac{15}{2}, \frac{7\times6}{5} = \frac{42}{5}, \frac{8\times7}{6} = \frac{28}{3}, \frac{9\times8}{7} = \frac{72}{7} \\ \\ \text{There should be} \\ \\ \frac{72}{7} \text{ in place of} \\ \end{array}$$

- 219. 3; The series is $2^3 2 = 6$, $3^3 3 = 24$, $4^3 - 4 = 60$, $5^3 - 5 = 120$, $6^3 - 6 = 210$, $7^3 - 7$ $= 336, 8^3 - 8 = 504$ There should be 336 in place of 340.
- 220. 2; The series is $3 \times 1 + 1^3 = 4$, $4 \times 2 + 2^3 = 16$, $16 \times 3 + 3^3 = 75, 75 \times 4 + 4^3 = 364, 364 \times 5$ $+ 5^3 = 1945, 1945 \times 6 + 6^3 = 11886$ There should be 364 in place of 366.
- 221. 2; The series is $3 \times 2 \times 1 1 = 5$, $4 \times 3 \times 2 2$ $= 22, 5 \times 4 \times 3 - 3 = 57, 6 \times 5 \times 4 - 4 = 116, 7$ 7 - 7 = 497. Hence, 56 should be replaced by 57.
- 222. 4; The series is $3^2 + 2^2 + 1^2 = 14$, $4^2 + 3^2 + 2^2 = 14$ 29. $5^2 + 4^2 + 3^2 = 50$. $6^2 + 5^2 + 4^2 = 77$. $7^2 + 6^2$ $+5^2 = 110, 8^2 + 7^2 + 6^2 = 149, 9^2 + 8^2 + 7^2 =$ 194. Hence, 150 should be replaced by 149.
- 223. 5; The series is $44 \times 4 = 176$, $55 \times 5 = 275$, 66 \times 6 = 396, 77 \times 7 = 539, 88 \times 8 = 704, 99 \times $9 = 891, 110 \times 10 = 1100.$

Hence, 998 should be replaced by 1100.
The series is
$$\frac{5 \times 2}{10} = \frac{10}{10}$$
, $\frac{15 \times 2}{10} = 10$,

224. 4; The series is
$$\frac{3 \times 2}{3} = \frac{10}{3}, \frac{10 \times 2}{3} = 10,$$

$$\frac{25 \times 2}{3} = \frac{50 \ 35 \times 2}{3} = \frac{70 \ 45 \times 2}{3} = 30,$$

$$\frac{55\times2}{3} = \frac{110}{3}, \frac{65\times2}{3} = \frac{130}{3}$$

110 in place of 118

There should be 3

225. 3; The series is $(75)^2 = 5625$,

$$(76)^2 = 5776, (77)^2 = 5929,$$

$$(78)^2 = 6084, (79)^2 = 6241,$$

$$(80)^2 = 6400, (81)^2 = 6561$$

There should be 6084 in place of 6085.

- 226. 2; The series is $+11^2$, $+10^2$, $+9^2$, $+8^2$, $+7^2$... Hence, there should be 304 in place of question mark.
- 227. 1; The series is + 880, + 440, + 220, + 110, + 55, ...

 Hence, there should be 1556 in place of question mark.
- 228. 3; The series is + 3³, + 4³, + 5³, + 6³, + 7³, ... Hence, there should be 451 in place of question mark.
- 229. 4; The series is $+ (5^2 2)$, $+ (6^2 2)$, $+ (7^2 2)$, $+ (8^2 2)$, ...

 Hence, there should be 117 in place of question mark.
- 230. 5; The series is + 551, + 1102, + 1653, + 2204, + 2755, ...

 There should be 6189 in place of question mark.
- 231. 5; The series is $\times 3$, +3, $\times 4$, +4, $\times 5$, +5... There should be 40 in place of 39.
- 232. 1; $+(13 \times 1 + 0)$, $+(13 \times 3 + 2)$, $+(13 \times 5 + 4)$, $+(13 \times 7 + 6)$, ...

Hence, 183 should be replaced with 182.

- 233. 3; The series is + 15, + 30, + 45, + 60, + 75, Hence, 334 should be replaced with 333.
- 234. 3; The series is $1 + 2^2 + 3^3 = 32$, $2 + 3^2 + 4^3 = 75$, $3 + 4^2 + 5^3 = 144$, $4 + 5^2 + 6^3 = 245$, $6 + 7^2 + 8^3 = 567$, $7 + 8^2 + 9^3 = 800$, $8 + 9^2 + 10^3 = 1089$.

Hence, there should be 245 in place of 244.

235. 5; The series is

$$1 \times 3 \times 5$$
, $3 \times 5 \times 7$, $5 \times 7 \times 9$, $7 \times 9 \times 11$
 2×4 , 4×6 , 6×8 , 8×10

$$\frac{9 \times 11 \times 13}{10 \times 12}$$
, $\frac{11 \times 13 \times 15}{12 \times 14}$, $\frac{13 \times 15 \times 17}{14 \times 16}$

$$=\frac{15}{8},\frac{35}{8},\frac{105}{16},\frac{693}{80},\frac{429}{40},\frac{715}{56},\frac{3315}{224}$$

3315

Hence, there should be 224

in place of $\frac{1615}{96}$

246078.

- 236. 4; The series is 12, 13, 13 + 12 = 25, 25 + 13 = 38, 38 + 25 = 63, 63 + 38 = 101, 101 + 63 = 164, 164 + 101 = 265

 Hence there should be 101 in place of 104.
- 237. 4; The series is $66^3 = 287496$, $65^3 = 274625$, $64^3 = 262144$, $63^3 = 250047$, $62^3 = 238328$, $61^3 = 226981$, $60^3 = 216000$ The re should be 250047 in place of
- 238. 4; The series is $42 \times 1.5 = 63$, $63 \times 1.5 = 94.5$, $94.5 \times 1.5 = 141.75$, $141.75 \times 1.5 = 212.625$, $212.625 \times 1.5 = 318.9375$, $318.9375 \times 1.5 = 478.40625$ Hence, there should be 212.625 in place of 212.92.
- 239. 5; The series is $3^{2} + 4^{2} 4^{2} + 5^{2} 5^{2} + 6^{2}$ $3 \times 4 \quad 4 \times 5 \quad 5 \times 6$ $6^{2} + 7^{2} \quad 7^{2} + 8^{2} \quad 8^{2} + 9^{2} \quad 9^{2} + 10^{2}$ $6 \times 7 \quad 7 \times 8 \quad 8 \times 9 \quad 9 \times 10$

So,
$$\frac{25}{12}$$
, $\frac{41}{20}$, $\frac{61}{30}$, $\frac{85}{42}$, $\frac{113}{56}$, $\frac{145}{72}$, $\frac{181}{90}$

85

∴ Hence, there should be

42 in place of

<u>85</u> 40 ·

- 240. 2; The series is $2^3 + 2^2 + 2$, $3^3 + 3^2 + 3$, $4^3 + 4^2 + 4$, $5^3 + 5^2 + 5$, $6^3 + 6^2 + 6$, $7^3 + 7^2 + 7$, $8^3 + 8^2 + 8$ Thus, 14, 39, 84, 155, 258, 399,584. Hence, there should be 155 in place of 156.
- 241. 4; The series is (75)³, (76)³, (77)³, (78)³(79)³, (80)³, (81)³

 The re should be 474552 in place of 474551.

242. 3; The series is

$$\frac{1^{3} + 2^{3} 2^{3} + 3^{3}}{1^{2} + 2^{2}}, \frac{3^{3} + 4^{3}}{2^{2} + 3^{2}}, \frac{4^{3} + 5^{3}}{3^{2} + 4^{2}}, \frac{4^{3} + 5^{3}}{4^{2} + 5^{2}},$$

$$5^{3} + 6^{3}, 6^{3} + 7^{3}, 7^{3} + 8^{3}, \frac{5^{2} + 2^{2}}{6^{2}}, \frac{2^{2} + 3^{2}}{6^{2}}, \frac{2^{2} + 8^{2}}{7^{2}}, \frac{2^{2} + 8^{2}}{7^{2}}$$

The series is

Hence, there should be 25

243. 5; The series is

$$(1+2)\times 3, (2+3)\times 4, (3+4)\times 5,$$

$$(4+5)\times 6, (5+6)\times 7, (6+7)\times 8, (7+8)\times 9$$

$$7, 8, 9, 10$$

$$= \frac{9}{4}, \frac{20}{5}, \frac{35}{6}, \frac{54}{7}, \frac{77}{8}, \frac{104}{9}, \frac{135}{10}$$

There should be $\frac{54}{7} \text{ in place of } \frac{59}{7}.$ 244. 2; The series is $1^3 + 1^2 = 2$, $3^3 + 3^2 = 36$, $5^3 + 3$

- 244. 2; The series is $1^3 + 1^2 = 2$, $3^3 + 3^2 = 36$, $5^3 + 5^2 = 150$, $7^3 + 7^2 = 392$, $9^3 + 9^2 = 810$, $11^3 + 11^2 = 1452$, $13^3 + 13^2 = 2366$.

 There should be 392 in place of 393.
- 245. 3; The series is $22 \times (2 + 2) = 88$, $23 \times (2 + 3) = 115$, $24 \times (2 + 4) = 144$, $25 \times (2 + 5) = 175$, $26 \times (2 + 6) = 208$, $27 \times (2 + 7) = 243$, $28 \times (2 + 8) = 280$.

There should be 144 in place of 145.

- 246. 5; The series is 8³ 8², 7³ 7², 6³ 6², 5³ 5², 4³ 4², 3³ 3², 2³ 2².

 There should be 18 in place of 19.
- 247. 3; The series is $1 \times 2 \times 3 = 6$, $3 \times 4 \times 5 = 60$, $5 \times 6 \times 7 = 210$, $7 \times 8 \times 9 = 504$, $9 \times 10 \times 11 = 990$, $11 \times 12 \times 13 = 1716$, $13 \times 14 \times 15 = 2730$. Hence, 500 should be replaced with 504.
- 248. 5; The series is 1 + 3 = 4, 5 + 7 = 12, 11 + 13 = 24, 17 + 19 = 36, 23 + 29 = 52, 31 + 37 = 68, 41 + 43 = 84. Hence, 69 should be replaced with 68.
- 249. 1; The series is $8 \times 1.5 = 12$, $12 \times 1.5 = 18$, $18 \times 1.5 = 27$, $27 \times 1.5 = 40.5$, $40.5 \times 1.5 = 60.75$, $60.75 \times 1.5 = 91.125$. Hence, 60 should be replaced with 60.75.

 $250.\ 2;\ 10^3-1,\ 11^3-1,\ 12^3-1,\ 13^3-1,\ 14^3-1,\ 15^3\\-1,\ 16^3-1.$

Hence, 1331 should be replaced with 1330.

- 251. 4; 89 2 = 87, 87 + 4 = 91, 91 8 = 83, 83 + 16 = 99, 99 - 32 = 67, 67 + 64 = 131. Hence, 84 should be replaced with 83.
- 252. 4; The series is $\times 3$ 6, $\times 4$ 8, $\times 5$ 10, ... 253. 2; The series is +18 , +16 , +14 , ...
- 254. 3; The series is $11^3 3$, $12^3 6$, $13^3 9$...
- 255. 3; The series is $\times 7 + 4$, $\times 6 + 0$, $\times 5 4 \times 4 8$, ...
- 256. 1; The series is a combination of two series. The first series is 34, 34 + 7 = 41, 41 + 14 = 55, 55 + 21 = 76 and the second series is 47, 47 3 = 44, 44 6 = 38, 38 9 = 29 ...
- 257. 4; The series follows the pattern as:

-2 -2

10 22 8 24 6 26

258. 5; The series is +2 +2

+11.5 +12.5 +13.5 +14.5 +15.5

60.5 72 84.5 98 112.5 128

259. 2; The series is

+11 +22 +33 +44 +55

96 107 129 162 206 261

- 260. 2; The series is $1^2 \times 2 = 2$, $2^2 \times 3 = 12$, $3^2 \times 4 = 36$, $4^2 \times 5 = 80$, $5^2 \times 6 = 150$, $6^2 \times 7 = 252$ Hence, 81 should be replaced by 80.
- 261. 1; The series is $1 \times (2 + 3) = 5$, $2 \times (3 + 4) = 14$, $3 \times (4 + 5) = 27$, $4 \times (5 + 6) = 44$, $5 \times (6 + 7) = 65$, $6 \times (7 + 8) = 90$. Hence, 16 should be replaced by 14.
- 262. 3; The series is $3^2 2^2 1^2 = 4$, $4^2 3^2 2^2 = 3$, $5^2 4^2 3^2 = 0$, $6^2 5^2 4^2 = -5$, $7^2 6^2 5^2 = -12$, $8^2 7^2 6^2 = -21$. Hence, 2 should be replaced by 3.
- 263. 4; The series is $10^2 + 1^2 + 0^2 = 101$, $11^2 + 1^2 + 1^2 = 123$, $12^2 + 1^2 + 2^2 = 149$, $13^2 + 1^2 + 3^2 = 179$, $14^2 + 1^2 + 4^2 = 213$, $15^2 + 1^2 + 5^2 = 251$ Hence, 218 should be replaced by 213.
- 264. 2; The series is \times 2 + 3, \times 2 + 5, \times 2 + 7, \times 2 + 9, \times 2 + 11 ...

 Hence, 45 should be replaced by 47.