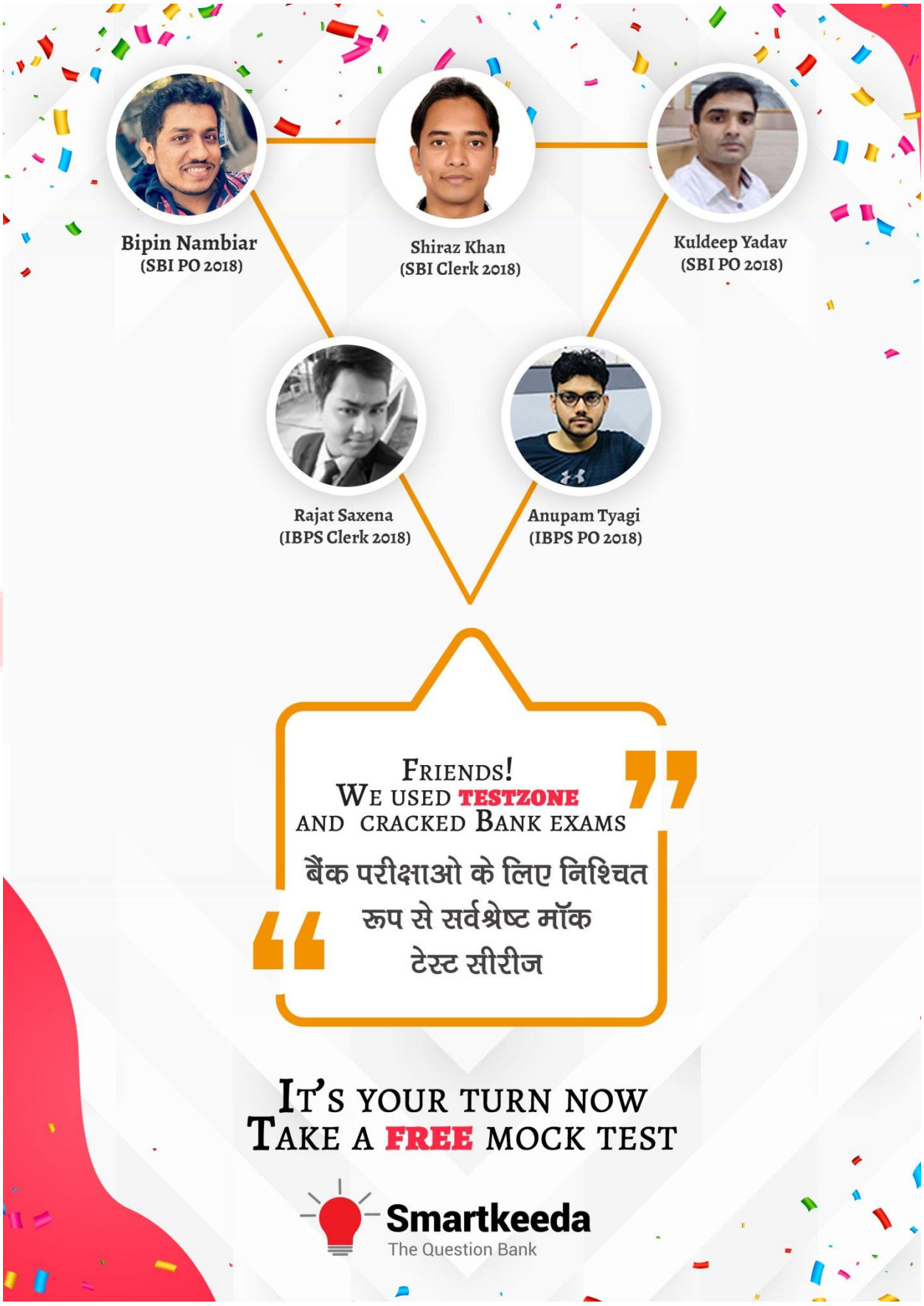
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The Question Bank

Number series Questions for IBPS PO Pre, SBI PO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Number series

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

1. 4 18 85 336 1005 ?

A. 1680 B. 1850 C. 2080 D. 2008 E. 1901

2. 9 265 393 457 489 ?

A. 550 B. 505 C. 595 D. 575 E. 525

3. 7 17 35 63 103 ?

A. 109 B. 157 C. 186 D. 212 E. 172

4. 40 82 249 1250 ?

A. 7456 B. 6583 C. 8757 D. 3423 E. 8134

5. 24 70 144 252 400 ?

A. 549 B. 549 C. 495 D. 594 E. 525

6. 33 47 53 61 71 ?

A. 84 B. 85 C. 83 D. 81 E. None of the above

7. 660 656 620 520 324 ?

A. 116 B. 56 C. 1 D. 0 E. None of these

8. 133 207 353 501 741 ?

A. 980 B. 982 C. 984 D. 987 E. 995

9. 8.5 24 ? 79 118.5 166

A. 47.5 B. 48.5 C. 49.5 D. 50.5 E. None of these

10. 2048 516 1032 262 ? 135 270

A. 532 B. 444 C. 464 D. 524 E. None of these

11. 7 9 12 48 ? 890

A. 128 B. 190 C. 172 D. 168 E. None of these

12. 47 58 71 79 95 ?

A. 108 B. 107 C. 105 D. 109 E. None of the above

13. 8 39 79 394 789 ?

A. 2149 B. 3542 C. 2862 D. 3944 E. None of these

14. 15 17 26 47 86 ?

A. 132 B. 149 C. 169 D. 172 E. 152

15. 3 9 24 57 ? 267 552

A. 121 B. 118 C. 114 D. 126 E. None of these

16. 2 8 28 102 432 ?

A. 1860 B. 1296 C. 2190 D. 2490 E. None of these

17. 6 16 44 126 370 ?

A. 1100 B. 1050 C. 1400 D. 1260 E. None of these

18. 51 77 175 250 279 ?

A. 313 B. 413 C. 512 D. 616 E. None of these

19. 2 2 5 15.5 ? 267.125

A. 58.25 B. 65.25 C. 56.25 D. 62.25 E. None of these

20. 219 223 232 248 ?

A. 296 B. 284 C. 257 D. 273 E. 267

21. 10 17.5 32.5 55 85 ?

A.121.5 B. 122.5 C. 132.5 D. 137.5 E. None of these

22. 1 7 16 30 51 ?

A. 81 B. 79 C. 83 D. 85 E. 76

23. 0 6 24 60 120 ?

A. 240 B. 250 C. 220 D. 224 E. 210

24. 6 6 18 90 630 ?

A. 3150 B. 5670 C. 6930 D. 5420 E. 4830

25. 27 35 47 63 83 ?

A. 105 B. 107 C. 114 D. 111 E. None of these

26. 7 12 19 31 50 ?

A. 83 B. 79 C. 80 D. 81 E. None of these

27. 2 3 8 27 112 ?

A. 352 B. 565 C. 630 D. 435 E. None of these

28. 30 128 346 732 ? 2200

A. 1424 B. 1334 C. 1528 D. 1078 E. None of these

29. 16800 4200 1050 262.5 ? 16.40625

A. 64.725 B. 60.225 C. 65.625 D. 68.428 E. None of these

30. 156 145 123 90 46 ?

A. 3 B. – 1 C. – 7 D. – 9 E. None of these

31. 11 12 39 164 507 ?

A. 913 B. 1136 C. 1026 D. 1236 E. None of these

32. 120 145 ? 197 224 257

A. 170 B. 168 C. 165 D. 171 E. None of these

33. 5 36 191 966 ? 24216

A. 4641 B. 4841 C. 4024 D. 4421 E. None of these

34. 5000 1000 200 40 8 ?

A. 2.3 B. 3.2 C. 0.8 D. 1.4 E. None of these

35. 144 153 171 207 279 ?

A. 423 B. 411 C. 453 D. 397 E. None of these

36. 76 304 ? 43776 1094400 39398400

A. 2736 B. 2959 C. 2498 D. 2659 E. None of these

37. 2 18 36 ? 98 146 188

A. 60 B. 64 C. 68 D. 79 E. None of these

38. 94 99 108 119 130 ? 144

A. 120 B. 125 C. 131 D. 139 E. None of these

39. 15 15 25 58.33 ? 641.66 2780.55

A. 175 B. 180 C. 190 D. 210 E. None of these

40. 35 65 ? 725 3605 21605 151205

A. 170 B. 185 C. 200 D. 215 E. None of these

41. 131 231 341 461 ? 731

A. 631 B. 531 C. 541 D. 591 E. None of these

42. 81 108 124 249 ? 628

A. 386 B. 285 C. 341 D. 528 E. None of these

43. 824 568 793 597 766 ?

A. 622 B. 628 C. 714 D. 694 E. None of these

44. 10.5 20 39 67.5 ? 153

A. 95.5 B. 101.5 C. 105.5 D. 108.5 E. None of these

45. 9 31 73 141 241 ?

A. 319 B. 357 C. 271 D. 379 E. None of these

46. 161 159 169 227 477 ?

A. 1540 B. 1480 C. 1495 D. 1440 E. None of these

47. 33 26.5 ? 64.75 139.5 358.75

A. 36.5 B. 39.5 C. 35.02 D. 37.01 E. None of these

48. 31 17 26 64.5 ? 1006.6

A. 218.6 B. 276.7 C. 225.50 D. 224.25 E. None of these

49. 16 19 26 39 62 ?

A. 99 B. 103 C. 105 D. 89 E. None of these

50. 386 379 358 323 ? 211

A. 274 B. 265 C. 235 D. 280 E. None of these

Correct Answers:

1	2	3	4	5	6	7	8	9	10
D	B	B	C	D	C	D	D	A	D
11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**
C	D	D	B	D	C	A	B	A	D
21	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
B	A	E	B	B	D	B	B	C	D
31	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**
D	B	B	E	A	A	C	D	A	B
41	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**
D	B	A	C	D	C	A	D	B	A

Explanations:

1.

Series Pattern	Given Series	
4	4	
4 × 6 – 6	18	
18 × 5 – 5	85	
85 × 4 – 4	336	
336 × 3 – 3	1005	
1005 × 2 – 2	2008	✓

Hence, option (D) is correct.

2.

Series Pattern	Given Series	
9	9	
9 + 256	265	
265 + 128	393	
393 + 64	457	
457 + 32	489	
489 + 16	505	✓

Hence, option (B) is correct.

3.

Series Pattern	Given Series	
7	7	
7 + 2 × 5	17	
17 + 3 × 6	35	
35 + 4 × 7	63	
63 + 5 × 8	103	
103 + 6 × 9	**157**	✓

Hence, option (B) is correct.

4.

Series Pattern	Given Series	
40	40	
$40 \times 2 + 2 = 82$	82	
$82 \times 3 + 3 = 249$	249	
$249 \times 5 + 5 = 1250$	1250	
$1250 \times 7 + 7 = 8757$	**8757**	✓

Hence, option (C) is correct.

5.

Series Pattern	Given Series	
$5^2 \times 1 - 1$	24	
$6^2 \times 2 - 2$	70	
$7^2 \times 3 - 3$	144	
$8^2 \times 4 - 4$	252	
$9^2 \times 5 - 5$	400	
$10^2 \times 6 - 6$	**594**	✓

Hence, option D is correct.

6.

Series Pattern	Given Series	
33	33	
$33 + 2^2 + 10$	47	
$33 + 3^2 + 11$	53	
$33 + 4^2 + 12$	61	
$33 + 5^2 + 13$	71	
$33 + 6^2 + 14$	**83**	✓

Hence, option C is correct.

7.

Series Pattern	Given Series	
660	660	
$660 - (4 \times 1^2)$	656	
$656 - (4 \times 3^2)$	620	
$620 - (4 \times 5^2)$	520	
$520 - (4 \times 7^2)$	324	
$324 - (4 \times 9^2)$	**0**	✓

Hence, option D is correct.

8.

Series Pattern	Given Series	
$(5^3 + 8)$	133	
$(6^3 - 9)$	207	
$(7^3 + 10)$	353	
$(8^3 - 11)$	501	
$(9^3 + 12)$	741	
$(10^3 - 13)$	**987**	✓

Hence, option D is correct.

9.

Series Pattern	Given Series	
$3 \times 1.5 + 2^2 = 8.5$	8.5	
$6 \times 2.5 + 3^2 = 24$	24	
$9 \times 3.5 + 4^2 = 47.5$	**47.5**	✓
$12 \times 4.5 + 5^2 = 79$	79	
$15 \times 5.5 + 6^2 = 118.5$	118.5	
$18 \times 6.5 + 7^2 = 166$	166	

Hence, option (A) is correct.

10.

Series Pattern	Given Series	
2048	2048	
$2048 \div 4 + 4 = 516$	516	
$516 \times 2 = 1032$	1032	
$1032 \div 4 + 4 = 262$	262	
$262 \times 2 = 524$	**524**	✓
$524 \div 4 + 4 = 135$	135	
$135 \times 2 = 270$	270	

Hence, there will be 524 in place of question.
Hence, option (D) is correct.

11.

Series Pattern	Given Series	
7	7	
$7 \times 1 + 1 \times 2$	9	
$9 \times 2 - 2 \times 3$	12	
$12 \times 3 + 3 \times 4$	48	
$48 \times 4 - 4 \times 5$	**172**	✓
$172 \times 5 + 5 \times 6$	890	

Hence, option C is correct.

12.

Series Pattern	Given Series	
47	47	
47 + (7 + 4)	58	
58 + (5 + 8)	71	
71 + (7 + 1)	79	
79 + (7 + 9)	95	
95 + (9 + 5)	**109**	✓

Hence, option D is correct.

13.

Series Pattern	Given Series	
8	8	
8 × 5 – 1 = 39	39	
39 × 2 + 1 = 79	79	
79 × 5 – 1 = 394	394	
394 × 2 + 1 = 789	789	
789 × 5 – 1 = 3944	**3944**	✓

Hence, option (D) is correct.

14.

Series Pattern	Given Series	
15	15	
$15 + (1^3 + 1) = 17$	17	
$15 + (2^3 + 3) = 26$	26	
$15 + (3^3 + 5) = 47$	47	
$15 + (4^3 + 7) = 86$	86	
$15 + (5^3 + 9) = 149$	**149**	✓

Hence, option (B) is correct.

15.

Series Pattern	Given Series	
3	3	
3 × 2 + 3	9	
9 × 2 + 6	24	
24 × 2 + 9	57	
57 × 2 + 12	**126**	✓
126 × 2 + 15	267	
267 × 2 + 18	552	

Hence, option D is correct.

16.

Series Pattern	Given Series	
2	2	
$2 \times 1 + 6$	8	
$8 \times 2 + 12$	28	
$28 \times 3 + 18$	102	
$102 \times 4 + 24$	432	
$432 \times 5 + 30$	**2190**	✓

Hence, option C is correct.

17.

Series Pattern	Given Series	
6	6	
$6 \times 3 - 2$	16	
$16 \times 3 - 4$	44	
$44 \times 3 - 6$	126	
$126 \times 3 - 8$	370	
$370 \times 3 - 10$	**1100**	✓

Hence, option (A) is correct.

18.

Series Pattern	Given Series	
51	51	
$51 + (5^2 + 1^2) = 77$	77	
$77 + (7^2 + 7^2) = 175$	175	
$175 + (1^2 + 7^2 + 5^2) = 250$	250	
$250 + (2^2 + 5^2 + 0^2) = 279$	279	
$279 + (2^2 + 7^2 + 9^2) = 413$	**413**	✓

Hence, option (B) is correct.

19.

Series Pattern	Given Series	
2	2	
$2 \times 0.5 + 1$	2	
$2 \times 1.5 + 2$	5	
$5 \times 2.5 + 3$	15.5	
$15.5 \times 3.5 + 4$	**58.25**	✓
$58.25 \times 4.5 + 5$	267.125	

Hence, option (A) is correct.

20.

Series Pattern	Given Series	
219	219	
$219 + (1^2 + 1 + 2) = 223$	223	
$223 + (2^2 + 2 + 3) = 232$	232	
$232 + (3^2 + 3 + 4) = 248$	248	
$248 + (4^2 + 4 + 5) = 273$	**273**	✓

Hence, option (D) is correct.

Alternate Solution:-

Series Pattern	Given Series	
219	219	
$219 + (2^2) = 223$	223	
$223 + (3^2) = 232$	232	
$232 + (4^2) = 248$	248	
$248 + (5^2) = 273$	**273**	✓

Hence, option (D) is correct.

21.

Series Pattern	Given Series	
10	10	
$10 + 15 \times 0.5 = 17.5$	17.5	
$17.5 + 15 \times 1 = 32.5$	32.5	
$32.5 + 15 \times 1.5 = 55$	55	
$55 + 15 \times 2 = 85$	85	
$85 + 15 \times 2.5 = 122.5$	**122.5**	✓

Hence, option (B) is correct.

22.

Series Pattern	Given Series	
1	1	
$1 + (1 \times 1 + 5) = 7$	7	
$7 + (2 \times 2 + 5) = 16$	16	
$16 + (3 \times 3 + 5) = 30$	30	
$30 + (4 \times 4 + 5) = 51$	51	
$51 + (5 \times 5 + 5) = 81$	**81**	✓

Hence, option (A) is correct.

23.

Series Pattern	Given Series	
$1^3 - 1 = 0$	0	
$2^3 - 2 = 6$	6	
$3^3 - 3 = 24$	24	
$4^3 - 4 = 60$	60	
$5^3 - 5 = 120$	120	
$6^3 - 6 = 210$	**210**	✓

Hence, option (E) is correct.

24.

Series Pattern	Given Series	
6	6	
$6 \times 1 = 6$	6	
$6 \times 3 = 18$	18	
$18 \times 5 = 90$	90	
$90 \times 7 = 630$	630	
$630 \times 9 = 5670$	**5670**	✓

Hence, option (B) is correct.

25.

Series Pattern	Given Series	
27	27	
27 + 8 = 35	35	
35 + 12 = 47	47	
47 + 16 = 63	63	
63 + 20 = 83	83	
83 + 24 = 107	**107**	✓

Hence, option (B) is correct.

26.

Series Pattern	Given Series	
7	7	
7 + 5 = 12	12	
12 + 7 = 19	19	
19 + 12 = 31	31	
31 + 19 = 50	50	
50 + 31 = 81	**81**	✓

Hence, option (D) is correct.

27.

Series Pattern	Given Series	
2	2	
$2 \times 1 + 1 = 3$	3	
$3 \times 2 + 2 = 8$	8	
$8 \times 3 + 3 = 27$	27	
$27 \times 4 + 4 = 112$	112	
$112 \times 5 + 5 = 565$	**565**	✓

Hence, option (B) is correct.

28.

Series Pattern	Given Series	
$3^3 + 3 = 30$	30	
$5^5 + 3 = 128$	128	
$7^3 + 3 = 346$	346	
$9^3 + 3 = 732$	732	
$11^3 + 3 = 1334$	**1334**	✓
$13^3 + 3 = 2200$	2200	

Hence, option (B) is correct.

29.

Series Pattern	Given Series	
16800	16800	
$16800 \div 4 = 4200$	4200	
$4200 \div 4 = 1050$	1050	
$1050 \div 4 = 262.5$	262.5	
$262.5 \div 4 = 65.625$	**65.625**	✓
$65.625 \div 4 = 16.40625$	16.40625	

Hence, option (C) is correct.

30.

Series Pattern	Given Series	
156	156	
$156 - 11 = 145$	145	
$145 - 22 = 123$	123	
$123 - 33 = 90$	90	
$90 - 44 = 46$	46	
$46 - 55 = -9$	**– 9**	✓

Hence, option (D) is correct.

31.

Series Pattern	Given Series
11	11
$11 + 1^3 = 12$	12
$12 + 3^3 = 39$	39
$39 + 5^3 = 164$	164
$164 + 7^3 = 507$	507
$507 + 9^3 = 1236$	**1236** ✓

Hence, option (D) is correct.

32.

Series Pattern	Given Series
$(11^2 - 1) = 120$	120
$(12^2 + 1) = 145$	145
$(13^2 - 1) = 168$	**168** ✓
$(14^2 + 1) = 197$	197
$(15^2 - 1) = 224$	224
$(16^2 + 1) = 257$	257

Hence, option (B) is correct.

33.

Series Pattern	Given Series
5	5
$5 \times 5 + 11 = 36$	36
$36 \times 5 + 11 = 191$	191
$191 \times 5 + 11 = 966$	966
$966 \times 5 + 11 = 4841$	**4841** ✓
$4841 \times 5 + 11 = 24216$	24216

Hence, option (B) is correct

34.

Series Pattern	Given Series
5000	5000
$5000 \div 5 = 1000$	1000
$1000 \div 5 = 200$	200
$200 \div 5 = 40$	40
$40 \div 5 = 8$	8
$8 \div 5 = 1.6$	**1.6** ✓

Hence, option (E) is correct.

35.

Series Pattern	Given Series	
144	144	
144 + 9 = 153	153	
153 + 18 = 171	171	
171 + 36 = 207	207	
207 + 72 = 279	279	
279 + 144 = 423	**423**	✓

Hence, option (A) is correct.

36.

Series Pattern	Given Series	
76	76	
$76 \times (2)^2$	304	
$304 \times (3)^2$	**2736**	✓
$2736 \times (4)^2$	43776	
$43776 \times (5)^2$	1094400	
$1094400 \times (6)^2$	39398400	

Hence, option A is correct.

37.

Series Pattern	Given Series	
2 + 2(7 + 1)	18	
18 + 3(7 – 1)	36	
36 + 4(7 + 1)	**68**	✓
68 + 5(7 – 1)	98	
98 + 6(7 + 1)	146	
146 + 7(7 – 1)	188	

Hence, option C is correct.

38.

Series Pattern	Given Series	
$94 – (2)^2 + 9$	99	
$99 – (3)^2 + 18$	108	
$108 – (4)^2 + 27$	119	
$119 – (5)^2 + 36$	130	
$130 – (6)^2 + 45$	**139**	✓
$139 – (7)^2 + 54$	144	

Hence, option D is correct.

39.

Series Pattern	Given Series	
15 × 3 ÷ 3	15	
15 × 5 ÷ 3	25	
25 × 7 ÷ 3	58.33	
58.33 × 9 ÷ 3	**175**	✓
175 × 11 ÷ 3	641.66	
641.66 × 13 ÷ 3	2780.55	

Hence, option A is correct

40.

Series Pattern	Given Series	
35 × 2 – 5	65	
65 × 3 – 10	**185**	✓
185 × 4 – 15	725	
725 × 5 – 20	3605	
3605 × 6 – 25	21605	
21605 × 7 – 30	151205	

Hence, option B is correct.

41.

Series Pattern	Series	
43 × 3 + (1 × 2)	131	
45 × 5 + (2 × 3)	231	
47 × 7 + (3 × 4)	341	
49 × 9 + (4 × 5)	461	
51 × 11 + (5 × 6)	**591**	✓
53 × 13 + (6 × 7)	731	

Hence, option D is correct.

42.

Series Pattern	Series	
81	81	
$81 + 3^3$	108	
$108 + 4^2$	124	
$124 + 5^3$	249	
$249 + 6^2$	**285**	✓
$285 + 7^3$	628	

Hence, option B is correct.

43.

Series Pattern	Series
824	824
$824 - 16^2$	568
$568 + 15^2$	793
$793 - 14^2$	597
$597 + 13^2$	766
$766 - 12^2$	**622** ✓

Hence, option A is correct.

44.

Series Pattern	Series
10.5	10.5
10.5 + (9 × 1) + (0.5)	20
20 + (9 × 2) + 1	39
39 + (9 × 3) + (1.5)	67.5
67.5 + (9 × 4) + (2)	**105.5** ✓
105.5 + (9 × 5) + (2.5)	153

Hence, option C is correct.

45.

Series Pattern	Series
$1^2 + 2^3$	9
$2^2 + 3^3$	31
$3^2 + 4^3$	73
$4^2 + 5^3$	141
$5^2 + 6^3$	241
$6^2 + 7^3$	**379** ✓

Hence, option D is correct.

---

46. **Given Series:**

Series I :161 159 169 **227** 477 ?
Series II : (+3–5) (+15–5) **(+63–5)** **(+255–5)** ?
Series III: (3×4)+3 → (15×4)+3 → (63×4)+3 → ?

Series Pattern:
Series I :161 159 169 227 477 **1495**
Series II : (+3–5) (+15–5) (+63–5) (+255–5) **(1023–5)**
Series III: (3×4)+3 (15×4)+3 (63×4)+3 **(255×4)+3**

Hence, there must be 1495 in place of question mark.
Therefore option (C) is correct.

47.

Series Pattern	Given Series	
33	33	
33 × 0.5 +10 = 26.5	26.5	
26.5 × 1.0 + 10 = **36.5**	**36.5**	?
36.5 × 1.5 + 10 = 64.75	64.75	
64.75 × 2.0 + 10 = 139.5	139.5	
139.5 × 2.5 + 10 = 358.75	358.75	

Hence, option (A) is correct.

48.

Series Pattern	Given Series	
31	31	
(31 × 0.5 – 0.5)+2 = 17	17	
(17 × 1.5 – 1.5) + 2 = 26	26	
(26 × 2.5 – 2.5) + 2 = 64.5	64.5	
(64.5 × 3.5 – 3.5) + 2 = **224.25**	**224.25**	?
(224.25 × 4.5 – 4.5) + 2 = 1006.625	1006.625	

Hence, option (D) is correct.

49.

Series Pattern	Given Series	
16	16	
$16 + 2^1 + 1 = 19$	19	
$19 + 2^2 + 3 = 26$	26	
$26 + 2^3 + 5 = 39$	39	
$39 + 2^4 + 7 = 62$	62	
$62 + 2^5 + 9 =$ **103**	**103**	✓

Hence, option (B) is correct.

50.

Series Pattern	Given Series	
386	386	
386 – **7** (= 1 × 7) = 379	379	
379 – **21** (= 3 × 7) = 358	358	
358 – **35** (= 5 × 7) = 323	323	
323 – **49** (= 7 × 7) = **274**	**274**	✓
274 – **63** (= 9 × 7) = 211	211	

Hence, option A is correct.