3.16 Number Series: Test Pack

GL ASSESSMENT EP.V16 · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Each question shows a series of numbers with a question mark in place of the missing number. Study the numbers already given and work out the rule that links them together: the rule might be a constant amount added or subtracted, a constant multiplier or divisor, a difference that itself increases or decreases, two series woven together term by term, or a rule linking each number to the two numbers before it. Once you have worked out the rule, choose the option, A to E, that continues the series correctly. Only one option is correct in each question, and each wrong option is designed to match a common slip such as using the wrong difference, stopping the pattern too early, or muddling two interleaved series. Study the worked example below before you begin, then work through the questions in order: they start off easier and get harder as you go.

Worked example. 2, 4, 6, 8, 10, ? A) 11 B) 12 C) 13 D) 14 E) 16 **Answer: B) 12.** Each number in the series is 2 more than the number before it (add 2 each time): 2, 4, 6, 8, 10. So the next number after 10 is 10 + 2 = 12, which is option B. Option A (11) adds only 1; option C (13) adds 3; option D (14) adds 4; option E (16) adds 6, doubling the true difference.

1 Find the next number in this series.

3, 8, 15, 24, 35, ?

- ☐ A) 44
- ☐ B) 45
- ☐ C) 46
- ☐ D) 47
- ☐ E) 48

---

2 Find the next number in this series.

1, 41, 3, 37, 5, 33, 7, 29, ?

- ☐ A) 10
- ☐ B) 8
- ☐ C) 51
- ☐ D) 19
- ☐ E) 9

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3 Find the next number in this series.
8, 16, 32, 64, 128, ?

- [ ] A) 192
- [ ] B) 255
- [ ] C) 128
- [ ] D) 256
- [ ] E) 257

---

4 Find the next number in this series.
28, 33, 38, 43, 48, 53, ?

- [ ] A) 60
- [ ] B) 53
- [ ] C) 57
- [ ] D) 59
- [ ] E) 58

---

5 Find the next number in this series.
4, 19, 34, 49, 64, 79, ?

- [ ] A) 49
- [ ] B) 93
- [ ] C) 94
- [ ] D) 92
- [ ] E) 95

---

6 Find the next number in this series.
2, 17, 32, 47, 62, ?

- [ ] A) 87
- [ ] B) 76
- [ ] C) 77
- [ ] D) 124
- [ ] E) 78

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7 Find the next number in this series.
10, 21, 32, 43, 54, ?

- [ ] A) 65
- [ ] B) 108
- [ ] C) 66
- [ ] D) 54
- [ ] E) 64

---

8 Find the next number in this series.
8, 10, 12, 14, 16, ?

- [ ] A) 18
- [ ] B) 17
- [ ] C) 81
- [ ] D) 16
- [ ] E) 19

---

9 Find the next number in this series.
228, 224, 216, 204, 188, 168, 144, ?

- [ ] A) 117
- [ ] B) 116
- [ ] C) 120
- [ ] D) 114
- [ ] E) 115

---

10 Find the next number in this series.
16, 23, 30, 37, 44, 51, ?

- [ ] A) 59
- [ ] B) 56
- [ ] C) 57
- [ ] D) 51
- [ ] E) 58

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11 Find the next number in this series.
159, 153, 145, 135, 123, 109, 93, ?

- [ ] A) 74
- [ ] B) 93
- [ ] C) 75
- [ ] D) 77
- [ ] E) 76

---

12 Find the next number in this series.
25, 28, 32, 37, 43, 50, 58, ?

- [ ] A) 76
- [ ] B) 68
- [ ] C) 66
- [ ] D) 67
- [ ] E) 58

---

13 Find the next number in this series.
51, 58, 65, 72, 79, 86, ?

- [ ] A) 94
- [ ] B) 93
- [ ] C) 92
- [ ] D) 86
- [ ] E) 39

---

14 Find the next number in this series.
226, 222, 214, 202, 186, 166, ?

- [ ] A) 142
- [ ] B) 152
- [ ] C) 143
- [ ] D) 146
- [ ] E) 141

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15 Find the next number in this series.
54, 62, 70, 78, 86, ?

- ☐ A) 172
- ☐ B) 95
- ☐ C) 93
- ☐ D) 94
- ☐ E) 92

---

16 Find the next number in this series.
27, 29, 35, 45, 59, 77, ?

- ☐ A) 98
- ☐ B) 95
- ☐ C) 77
- ☐ D) 99
- ☐ E) 100

---

17 Find the next number in this series.
42, 46, 52, 60, 70, 82, ?

- ☐ A) 94
- ☐ B) 106
- ☐ C) 95
- ☐ D) 96
- ☐ E) 97

---

18 Find the next number in this series.
174, 170, 163, 153, 140, 124, ?

- ☐ A) 106
- ☐ B) 105
- ☐ C) 108
- ☐ D) 248
- ☐ E) 104

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19 Find the next number in this series.

53, 58, 63, 68, 73, ?

- ☐ A) 78
- ☐ B) 77
- ☐ C) 73
- ☐ D) 88
- ☐ E) 79

---

20 Find the next number in this series.

5, 20, 8, 16, 11, 12, ?

- ☐ A) 14
- ☐ B) 15
- ☐ C) 16
- ☐ D) 17
- ☐ E) 20

---

21 Find the next number in this series.

180, 178, 173, 165, 154, 140, ?

- ☐ A) 123
- ☐ B) 126
- ☐ C) 122
- ☐ D) 124
- ☐ E) 321

---

22 Find the next number in this series.

43, 55, 67, 79, 91, 103, ?

- ☐ A) 114
- ☐ B) 115
- ☐ C) 116
- ☐ D) 113
- ☐ E) 103

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23 Find the next number in this series.
38, 50, 62, 74, 86, 98, ?

- [ ] A) 196
- [ ] B) 108
- [ ] C) 109
- [ ] D) 111
- [ ] E) 110

---

24 Find the next number in this series.
157, 152, 145, 136, 125, 112, ?

- [ ] A) 107
- [ ] B) 97
- [ ] C) 98
- [ ] D) 99
- [ ] E) 96

---

25 Find the next number in this series.
18, 26, 34, 42, 50, ?

- [ ] A) 58
- [ ] B) 59
- [ ] C) 85
- [ ] D) 57
- [ ] E) 62

---

26 Find the next number in this series.
60, 53, 46, 39, 32, ?

- [ ] A) 64
- [ ] B) 32
- [ ] C) 24
- [ ] D) 26
- [ ] E) 25

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27 Find the next number in this series.
23, 29, 35, 41, 47, 53, ?

- [ ] A) 59
- [ ] B) 60
- [ ] C) 58
- [ ] D) 69
- [ ] E) 57

---

28 Find the next number in this series.
12, 13, 17, 24, 34, 47, 63, ?

- [ ] A) 79
- [ ] B) 83
- [ ] C) 81
- [ ] D) 91
- [ ] E) 82

---

29 Find the next number in this series.
24, 32, 40, 48, 56, 64, ?

- [ ] A) 73
- [ ] B) 82
- [ ] C) 64
- [ ] D) 72
- [ ] E) 71

---

30 Find the next number in this series.
25, 33, 41, 49, 57, 65, ?

- [ ] A) 74
- [ ] B) 77
- [ ] C) 72
- [ ] D) 73
- [ ] E) 83

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31 Find the next number in this series.
42, 47, 52, 57, 62, ?

- [ ] A) 68
- [ ] B) 65
- [ ] C) 67
- [ ] D) 66
- [ ] E) 76

---

32 Find the next number in this series.
157, 156, 153, 148, 141, 132, 121, ?

- [ ] A) 106
- [ ] B) 108
- [ ] C) 110
- [ ] D) 107
- [ ] E) 109

---

33 Find the next number in this series.
8, 10, 12, 14, 16, 18, ?

- [ ] A) 20
- [ ] B) 19
- [ ] C) 21
- [ ] D) 18
- [ ] E) 36

---

34 Find the next number in this series.
58, 64, 70, 76, 82, 88, ?

- [ ] A) 95
- [ ] B) 94
- [ ] C) 93
- [ ] D) 49
- [ ] E) 104

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35 Find the next number in this series.
27, 23, 19, 15, 11, 7, ?

- [ ] A) 4
- [ ] B) 3
- [ ] C) 6
- [ ] D) 2
- [ ] E) 1

---

36 Find the next number in this series.
187, 185, 180, 172, 161, 147, 130, ?

- [ ] A) 110
- [ ] B) 113
- [ ] C) 109
- [ ] D) 111
- [ ] E) 11

---

37 Find the next number in this series.
5, 10, 20, 40, 80, 160, ?

- [ ] A) 240
- [ ] B) 321
- [ ] C) 319
- [ ] D) 320
- [ ] E) 160

---

38 Find the next number in this series.
39, 41, 43, 45, 47, ?

- [ ] A) 94
- [ ] B) 47
- [ ] C) 49
- [ ] D) 48
- [ ] E) 50

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39 Find the next number in this series.
31, 36, 44, 55, 69, 86, ?

- [ ] A) 116
- [ ] B) 105
- [ ] C) 107
- [ ] D) 106
- [ ] E) 103

---

40 Find the next number in this series.
15, 84, 13, 89, 11, 94, 9, 99, ?

- [ ] A) 7
- [ ] B) 8
- [ ] C) 189
- [ ] D) 99
- [ ] E) 6

---

41 Find the next number in this series.
5, 14, 32, 68, 140, 284, ?

- [ ] A) 572
- [ ] B) 571
- [ ] C) 573
- [ ] D) 570
- [ ] E) 428

---

42 Find the next number in this series.
26, 37, 50, 65, 82, 101, ?

- [ ] A) 123
- [ ] B) 120
- [ ] C) 221
- [ ] D) 121
- [ ] E) 122

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43 Find the next number in this series.
48, 40, 32, 24, 16, ?

- [ ] A) 8
- [ ] B) 18
- [ ] C) 9
- [ ] D) 16
- [ ] E) 7

---

44 Find the next number in this series.
209, 205, 197, 185, 169, 149, ?

- [ ] A) 125
- [ ] B) 123
- [ ] C) 129
- [ ] D) 124
- [ ] E) 126

---

45 Find the next number in this series.
39, 34, 29, 24, 19, 14, ?

- [ ] A) 28
- [ ] B) 8
- [ ] C) 10
- [ ] D) 7
- [ ] E) 9

---

46 Find the next number in this series.
31, 36, 42, 49, 57, 66, 76, ?

- [ ] A) 86
- [ ] B) 152
- [ ] C) 87
- [ ] D) 97
- [ ] E) 88

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47 Find the next number in this series.
15, 54, 18, 49, 21, 44, 24, 39, ?

- [ ] A) 26
- [ ] B) 54
- [ ] C) 28
- [ ] D) 78
- [ ] E) 27

---

48 Find the next number in this series.
15, 18, 24, 33, 45, 60, 78, ?

- [ ] A) 99
- [ ] B) 100
- [ ] C) 98
- [ ] D) 97
- [ ] E) 96

---

49 Find the next number in this series.
24, 48, 22, 45, 20, 42, 18, 39, ?

- [ ] A) 60
- [ ] B) 14
- [ ] C) 16
- [ ] D) 17
- [ ] E) 15

---

50 Find the next number in this series.
41, 46, 51, 56, 61, ?

- [ ] A) 64
- [ ] B) 65
- [ ] C) 76
- [ ] D) 66
- [ ] E) 67

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51 Find the next number in this series.
1, 5, 9, 13, 17, ?

- [ ] A) 21
- [ ] B) 20
- [ ] C) 22
- [ ] D) 23
- [ ] E) 19

---

52 Find the next number in this series.
9, 12, 18, 27, 39, 54, ?

- [ ] A) 72
- [ ] B) 27
- [ ] C) 71
- [ ] D) 69
- [ ] E) 73

---

53 Find the next number in this series.
17, 15, 13, 11, 9, 7, ?

- [ ] A) 14
- [ ] B) 5
- [ ] C) 6
- [ ] D) 7
- [ ] E) 4

---

54 Find the next number in this series.
8, 10, 15, 23, 34, 48, 65, ?

- [ ] A) 86
- [ ] B) 58
- [ ] C) 84
- [ ] D) 82
- [ ] E) 85

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55 Find the next number in this series.
127, 124, 119, 112, 103, 92, 79, ?

- [ ] A) 63
- [ ] B) 65
- [ ] C) 62
- [ ] D) 66
- [ ] E) 64

---

56 Find the next number in this series.
8, 74, 10, 76, 12, 78, 14, 80, ?

- [ ] A) 160
- [ ] B) 17
- [ ] C) 16
- [ ] D) 146
- [ ] E) 15

---

57 Find the next number in this series.
229, 225, 217, 205, 189, 169, 145, ?

- [ ] A) 117
- [ ] B) 121
- [ ] C) 103
- [ ] D) 118
- [ ] E) 116

---

58 Find the next number in this series.
37, 41, 47, 55, 65, 77, ?

- [ ] A) 89
- [ ] B) 101
- [ ] C) 92
- [ ] D) 90
- [ ] E) 91

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59 Find the next number in this series.
4, 9, 14, 19, 24, 29, ?

- [ ] A) 34
- [ ] B) 35
- [ ] C) 43
- [ ] D) 33
- [ ] E) 29

---

60 Find the next number in this series.
27, 22, 17, 12, 7, ?

- [ ] A) 3
- [ ] B) 7
- [ ] C) 1
- [ ] D) 12
- [ ] E) 2

---

61 Find the next number in this series.
15, 18, 22, 27, 33, 40, ?

- [ ] A) 84
- [ ] B) 47
- [ ] C) 48
- [ ] D) 40
- [ ] E) 49

---

62 Find the next number in this series.
4, 9, 16, 25, 36, 49, ?

- [ ] A) 65
- [ ] B) 63
- [ ] C) 64
- [ ] D) 74
- [ ] E) 62

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63 Find the next number in this series.
57, 65, 73, 81, 89, ?

- [ ] A) 97
- [ ] B) 98
- [ ] C) 79
- [ ] D) 95
- [ ] E) 96

---

64 Find the next number in this series.
60, 63, 66, 69, 72, ?

- [ ] A) 85
- [ ] B) 75
- [ ] C) 74
- [ ] D) 76
- [ ] E) 72

---

65 Find the next number in this series.
18, 86, 16, 91, 14, 96, 12, 101, ?

- [ ] A) 101
- [ ] B) 9
- [ ] C) 11
- [ ] D) 190
- [ ] E) 10

---

66 Find the next number in this series.
276, 272, 264, 252, 236, 216, 192, ?

- [ ] A) 150
- [ ] B) 165
- [ ] C) 164
- [ ] D) 163
- [ ] E) 168

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67 Find the next number in this series.
28, 62, 30, 59, 32, 56, 34, 53, ?

- [ ] A) 37
- [ ] B) 35
- [ ] C) 36
- [ ] D) 72
- [ ] E) 46

---

68 Find the next number in this series.
172, 171, 167, 160, 150, 137, ?

- [ ] A) 120
- [ ] B) 124
- [ ] C) 121
- [ ] D) 122
- [ ] E) 131

---

69 Find the next number in this series.
21, 27, 34, 42, 51, 61, ?

- [ ] A) 72
- [ ] B) 73
- [ ] C) 71
- [ ] D) 122
- [ ] E) 61

---

70 Find the next number in this series.
31, 39, 47, 55, 63, 71, ?

- [ ] A) 83
- [ ] B) 78
- [ ] C) 79
- [ ] D) 80
- [ ] E) 89

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71 Find the next number in this series.

2, 6, 12, 20, 30, ?

- ☐ A) 36
- ☐ B) 40
- ☐ C) 42
- ☐ D) 44
- ☐ E) 50

---

72 Find the next number in this series.

54, 51, 48, 45, 42, 39, ?

- ☐ A) 39
- ☐ B) 37
- ☐ C) 35
- ☐ D) 34
- ☐ E) 36

---

73 Find the next number in this series.

2, 3, 5, 9, 17, ?

- ☐ A) 25
- ☐ B) 30
- ☐ C) 31
- ☐ D) 32
- ☐ E) 33

---

74 Find the next number in this series.

2, 5, 10, 17, 26, 37, ?

- ☐ A) 45
- ☐ B) 47
- ☐ C) 48
- ☐ D) 49
- ☐ E) 50

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Mark scheme · 3.16 Number Series: Test Pack

Question 1

E) 48 - the difference between terms increases by 2 each time (5, 7, 9, 11, 13), so 35+13=48 **B1**

Answer: E) 48

Question 2

E) 9 - two series are woven together: the odd terms change by +2 and the even terms change by -4: 1, 41, 3, 37, 5, 33, 7, 29, 9 **B1**

Answer: E) 9

Question 3

D) 256 - each term is multiplied by 2: 8, 16, 32, 64, 128, 256 **B1**

Answer: D) 256

Question 4

E) 58 - each term increases by 5: 28, 33, 38, 43, 48, 53, 58 **B1**

Answer: E) 58

Question 5

C) 94 - each term increases by 15: 4, 19, 34, 49, 64, 79, 94 **B1**

Answer: C) 94

Question 6

C) 77 - each term increases by 15: 2, 17, 32, 47, 62, 77 **B1**

Answer: C) 77

Question 7

A) 65 - each term increases by 11: 10, 21, 32, 43, 54, 65 **B1**

Answer: A) 65

Question 8

A) 18 - each term increases by 2: 8, 10, 12, 14, 16, 18 **B1**

Answer: A) 18

Question 9

B) 116 - the amount subtracted changes by 4 each time (4, 8, 12, 16, 20, 24, 28): 228, 224, 216, 204, 188, 168, 144, 116 **B1**

Answer: B) 116

Question 10

E) 58 - each term increases by 7: 16, 23, 30, 37, 44, 51, 58 **B1**

Answer: E) 58

Question 11

C) 75 - the amount subtracted changes by 2 each time (6, 8, 10, 12, 14, 16, 18): 159, 153, 145, 135, 123, 109, 93, 75 **B1**

Answer: C) 75

Question 12

D) 67 - the amount added changes by 1 each time (3, 4, 5, 6, 7, 8, 9): 25, 28, 32, 37, 43, 50, 58, 67 **B1**

Answer: D) 67

Question 13

B) 93 - each term increases by 7: 51, 58, 65, 72, 79, 86, 93 **B1**

Answer: B) 93

Question 14

A) 142 - the amount subtracted changes by 4 each time (4, 8, 12, 16, 20, 24): 226, 222, 214, 202, 186, 166, 142 **B1**

Answer: A) 142

Question 15

D) 94 - each term increases by 8: 54, 62, 70, 78, 86, 94 **B1**

Answer: D) 94

Question 16

D) 99 - the amount added changes by 4 each time (2, 6, 10, 14, 18, 22): 27, 29, 35, 45, 59, 77, 99 **B1**

Answer: D) 99

Question 17

D) 96 - the amount added changes by 2 each time (4, 6, 8, 10, 12, 14): 42, 46, 52, 60, 70, 82, 96 **B1**

Answer: D) 96

Question 18

B) 105 - the amount subtracted changes by 3 each time (4, 7, 10, 13, 16, 19): 174, 170, 163, 153, 140, 124, 105 **B1**

Answer: B) 105

Question 19

A) 78 - each term increases by 5: 53, 58, 63, 68, 73, 78 **B1**

Answer: A) 78

Question 20

A) 14 - two series are woven together: one adding 3 each time (5, 8, 11, ?) and one subtracting 4 each time (20, 16, 12); the next term continues the first series to give 14 **B1**

Answer: A) 14

Question 21

A) 123 - the amount subtracted changes by 3 each time (2, 5, 8, 11, 14, 17): 180, 178, 173, 165, 154, 140, 123 **B1**

Answer: A) 123

Question 22

B) 115 - each term increases by 12: 43, 55, 67, 79, 91, 103, 115 **B1**

Answer: B) 115

Question 23

E) 110 - each term increases by 12: 38, 50, 62, 74, 86, 98, 110 **B1**

Answer: E) 110

Question 24

B) 97 - the amount subtracted changes by 2 each time (5, 7, 9, 11, 13, 15): 157, 152, 145, 136, 125, 112, 97 **B1**

Answer: B) 97

Question 25

A) 58 - each term increases by 8: 18, 26, 34, 42, 50, 58 **B1**

Answer: A) 58

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Question 26

E) 25 - each term decreases by 7: 60, 53, 46, 39, 32, 25 **B1**

Answer: E) 25

Question 27

A) 59 - each term increases by 6: 23, 29, 35, 41, 47, 53, 59 **B1**

Answer: A) 59

Question 28

E) 82 - the amount added changes by 3 each time (1, 4, 7, 10, 13, 16, 19): 12, 13, 17, 24, 34, 47, 63, 82 **B1**

Answer: E) 82

Question 29

D) 72 - each term increases by 8: 24, 32, 40, 48, 56, 64, 72 **B1**

Answer: D) 72

Question 30

D) 73 - each term increases by 8: 25, 33, 41, 49, 57, 65, 73 **B1**

Answer: D) 73

Question 31

C) 67 - each term increases by 5: 42, 47, 52, 57, 62, 67 **B1**

Answer: C) 67

Question 32

B) 108 - the amount subtracted changes by 2 each time (1, 3, 5, 7, 9, 11, 13): 157, 156, 153, 148, 141, 132, 121, 108 **B1**

Answer: B) 108

Question 33

A) 20 - each term increases by 2: 8, 10, 12, 14, 16, 18, 20 **B1**

Answer: A) 20

Question 34

B) 94 - each term increases by 6: 58, 64, 70, 76, 82, 88, 94 **B1**

Answer: B) 94

Question 35

B) 3 - each term decreases by 4: 27, 23, 19, 15, 11, 7, 3 **B1**

Answer: B) 3

Question 36

A) 110 - the amount subtracted changes by 3 each time (2, 5, 8, 11, 14, 17, 20): 187, 185, 180, 172, 161, 147, 130, 110 **B1**

Answer: A) 110

Question 37

D) 320 - each term is multiplied by 2: 5, 10, 20, 40, 80, 160, 320 **B1**

Answer: D) 320

Question 38

C) 49 - each term increases by 2: 39, 41, 43, 45, 47, 49 **B1**

Answer: C) 49

Question 39

D) 106 - the amount added changes by 3 each time (5, 8, 11, 14, 17, 20): 31, 36, 44, 55, 69, 86, 106 **B1**

Answer: D) 106

Question 40

A) 7 - two series are woven together: the odd terms change by -2 and the even terms change by +5: 15, 84, 13, 89, 11, 94, 9, 99, 7 **B1**

Answer: A) 7

Question 41

A) 572 - each term is the previous term multiplied by 2 then +4: 5, 14, 32, 68, 140, 284, 572 **B1**

Answer: A) 572

Question 42

E) 122 - the terms are square numbers +1: 26, 37, 50, 65, 82, 101, 122 **B1**

Answer: E) 122

Question 43

A) 8 - each term decreases by 8: 48, 40, 32, 24, 16, 8 **B1**

Answer: A) 8

Question 44

A) 125 - the amount subtracted changes by 4 each time (4, 8, 12, 16, 20, 24): 209, 205, 197, 185, 169, 149, 125 **B1**

Answer: A) 125

Question 45

E) 9 - each term decreases by 5: 39, 34, 29, 24, 19, 14, 9 **B1**

Answer: E) 9

Question 46

C) 87 - the amount added changes by 1 each time (5, 6, 7, 8, 9, 10, 11): 31, 36, 42, 49, 57, 66, 76, 87 **B1**

Answer: C) 87

Question 47

E) 27 - two series are woven together: the odd terms change by +3 and the even terms change by -5: 15, 54, 18, 49, 21, 44, 24, 39, 27 **B1**

Answer: E) 27

Question 48

A) 99 - the amount added changes by 3 each time (3, 6, 9, 12, 15, 18, 21): 15, 18, 24, 33, 45, 60, 78, 99 **B1**

Answer: A) 99

Question 49

C) 16 - two series are woven together: the odd terms change by -2 and the even terms change by -3: 24, 48, 22, 45, 20, 42, 18, 39, 16 **B1**

Answer: C) 16

Question 50

D) 66 - each term increases by 5: 41, 46, 51, 56, 61, 66 **B1**

Answer: D) 66

Question 51

A) 21 - each term increases by 4: 1, 5, 9, 13, 17, 21 **B1**

Answer: A) 21

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Question 52

A) 72 - the amount added changes by 3 each time (3, 6, 9, 12, 15, 18): 9, 12, 18, 27, 39, 54, 72 **B1**

Answer: A) 72

Question 53

B) 5 - each term decreases by 2: 17, 15, 13, 11, 9, 7, 5 **B1**

Answer: B) 5

Question 54

E) 85 - the amount added changes by 3 each time (2, 5, 8, 11, 14, 17, 20): 8, 10, 15, 23, 34, 48, 65, 85 **B1**

Answer: E) 85

Question 55

E) 64 - the amount subtracted changes by 2 each time (3, 5, 7, 9, 11, 13, 15): 127, 124, 119, 112, 103, 92, 79, 64 **B1**

Answer: E) 64

Question 56

C) 16 - two series are woven together: the odd terms change by +2 and the even terms change by +2: 8, 74, 10, 76, 12, 78, 14, 80, 16 **B1**

Answer: C) 16

Question 57

A) 117 - the amount subtracted changes by 4 each time (4, 8, 12, 16, 20, 24, 28): 229, 225, 217, 205, 189, 169, 145, 117 **B1**

Answer: A) 117

Question 58

E) 91 - the amount added changes by 2 each time (4, 6, 8, 10, 12, 14): 37, 41, 47, 55, 65, 77, 91 **B1**

Answer: E) 91

Question 59

A) 34 - each term increases by 5: 4, 9, 14, 19, 24, 29, 34 **B1**

Answer: A) 34

Question 60

E) 2 - each term decreases by 5: 27, 22, 17, 12, 7, 2 **B1**

Answer: E) 2

Question 61

C) 48 - the amount added changes by 1 each time (3, 4, 5, 6, 7, 8): 15, 18, 22, 27, 33, 40, 48 **B1**

Answer: C) 48

Question 62

C) 64 - the terms are square numbers: 4, 9, 16, 25, 36, 49, 64 **B1**

Answer: C) 64

Question 63

A) 97 - each term increases by 8: 57, 65, 73, 81, 89, 97 **B1**

Answer: A) 97

Question 64

B) 75 - each term increases by 3: 60, 63, 66, 69, 72, 75 **B1**

Answer: B) 75

Question 65

E) 10 - two series are woven together: the odd terms change by -2 and the even terms change by +5: 18, 86, 16, 91, 14, 96, 12, 101, 10 **B1**

Answer: E) 10

Question 66

C) 164 - the amount subtracted changes by 4 each time (4, 8, 12, 16, 20, 24, 28): 276, 272, 264, 252, 236, 216, 192, 164 **B1**

Answer: C) 164

Question 67

C) 36 - two series are woven together: the odd terms change by +2 and the even terms change by -3: 28, 62, 30, 59, 32, 56, 34, 53, 36 **B1**

Answer: C) 36

Question 68

C) 121 - the amount subtracted changes by 3 each time (1, 4, 7, 10, 13, 16): 172, 171, 167, 160, 150, 137, 121 **B1**

Answer: C) 121

Question 69

A) 72 - the amount added changes by 1 each time (6, 7, 8, 9, 10, 11): 21, 27, 34, 42, 51, 61, 72 **B1**

Answer: A) 72

Question 70

C) 79 - each term increases by 8: 31, 39, 47, 55, 63, 71, 79 **B1**

Answer: C) 79

Question 71

C) 42 - the difference between terms increases by 2 each time (4, 6, 8, 10, 12), so 30+12=42 **B1**

Answer: C) 42

Question 72

E) 36 - each term decreases by 3: 54, 51, 48, 45, 42, 39, 36 **B1**

Answer: E) 36

Question 73

E) 33 - each term is double the previous term minus 1 (2, 3, 5, 9, 17, 33) **B1**

Answer: E) 33

Question 74

E) 50 - the difference between terms increases by 2 each time (3, 5, 7, 9, 11, 13), so 37+13=50 **B1**

Answer: E) 50

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