3.16 Number Series: 1-hour 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, 6, 11, 18, 27, ?

- ☐ A) 33
- ☐ B) 35
- ☐ C) 36
- ☐ D) 38
- ☐ E) 40

---

2 Find the next number in this series.

2, 8, 26, 80, 242, 728, ?

- ☐ A) 2187
- ☐ B) 2186
- ☐ C) 2915
- ☐ D) 1214
- ☐ E) 2185

© Revision Library | revisionlibrary.co.uk

3 Find the next number in this series.
50, 41, 32, 23, 14, ?

- ☐ A) 4
- ☐ B) 6
- ☐ C) 28
- ☐ D) 15
- ☐ E) 5

---

4 Find the next number in this series.
4, 45, 10, 50, 16, 55, 22, 60, ?

- ☐ A) 60
- ☐ B) 29
- ☐ C) 98
- ☐ D) 27
- ☐ E) 28

---

5 Find the next number in this series.
41, 53, 65, 77, 89, 101, ?

- ☐ A) 113
- ☐ B) 112
- ☐ C) 123
- ☐ D) 111
- ☐ E) 114

---

6 Find the next number in this series.
13, 18, 23, 28, 33, 38, ?

- ☐ A) 53
- ☐ B) 43
- ☐ C) 42
- ☐ D) 44
- ☐ E) 38

© Revision Library | revisionlibrary.co.uk

7 Find the next number in this series.

4, 6, 10, 16, 24, 34, 46, ?

- ☐ A) 59
- ☐ B) 67
- ☐ C) 60
- ☐ D) 61
- ☐ E) 58

---

8 Find the next number in this series.

86, 83, 79, 74, 68, 61, ?

- ☐ A) 51
- ☐ B) 54
- ☐ C) 53
- ☐ D) 122
- ☐ E) 52

---

9 Find the next number in this series.

2, 5, 11, 23, 47, ?

- ☐ A) 70
- ☐ B) 93
- ☐ C) 94
- ☐ D) 95
- ☐ E) 96

---

10 Find the next number in this series.

21, 36, 51, 66, 81, 96, ?

- ☐ A) 96
- ☐ B) 112
- ☐ C) 121
- ☐ D) 110
- ☐ E) 111

© Revision Library | revisionlibrary.co.uk

11 Find the next number in this series.
173, 172, 167, 158, 145, 128, ?

- [ ] A) 107
- [ ] B) 106
- [ ] C) 111
- [ ] D) 108
- [ ] E) 128

---

12 Find the next number in this series.
33, 38, 47, 60, 77, 98, 123, ?

- [ ] A) 153
- [ ] B) 162
- [ ] C) 148
- [ ] D) 152
- [ ] E) 151

---

13 Find the next number in this series.
57, 54, 51, 48, 45, 42, ?

- [ ] A) 40
- [ ] B) 39
- [ ] C) 37
- [ ] D) 84
- [ ] E) 38

---

14 Find the next number in this series.
205, 203, 198, 190, 179, 165, 148, ?

- [ ] A) 296
- [ ] B) 127
- [ ] C) 128
- [ ] D) 131
- [ ] E) 129

© Revision Library | revisionlibrary.co.uk

15 Find the next number in this series.
23, 30, 37, 44, 51, 58, ?

- [ ] A) 63
- [ ] B) 66
- [ ] C) 68
- [ ] D) 64
- [ ] E) 65

---

16 Find the next number in this series.
60, 72, 84, 96, 108, 120, ?

- [ ] A) 131
- [ ] B) 142
- [ ] C) 231
- [ ] D) 132
- [ ] E) 133

---

17 Find the next number in this series.
32, 38, 48, 62, 80, 102, 128, ?

- [ ] A) 128
- [ ] B) 157
- [ ] C) 159
- [ ] D) 154
- [ ] E) 158

---

18 Find the next number in this series.
32, 29, 26, 23, 20, ?

- [ ] A) 18
- [ ] B) 17
- [ ] C) 16
- [ ] D) 20
- [ ] E) 15

© Revision Library | revisionlibrary.co.uk

19 Find the next number in this series.
52, 45, 38, 31, 24, 17, ?

- [ ] A) 20
- [ ] B) 8
- [ ] C) 10
- [ ] D) 11
- [ ] E) 9

---

20 Find the next number in this series.
9, 13, 21, 33, 49, 69, 93, ?

- [ ] A) 131
- [ ] B) 122
- [ ] C) 121
- [ ] D) 120
- [ ] E) 117

---

21 Find the next number in this series.
29, 35, 45, 59, 77, 99, 125, ?

- [ ] A) 155
- [ ] B) 151
- [ ] C) 156
- [ ] D) 153
- [ ] E) 154

---

22 Find the next number in this series.
58, 83, 108, 133, 158, 183, ?

- [ ] A) 207
- [ ] B) 206
- [ ] C) 208
- [ ] D) 218
- [ ] E) 209

© Revision Library | revisionlibrary.co.uk

23 Find the next number in this series.
49, 64, 81, 100, 121, 144, ?

- [ ] A) 170
- [ ] B) 288
- [ ] C) 168
- [ ] D) 169
- [ ] E) 167

---

24 Find the next number in this series.
26, 33, 40, 47, 54, 61, ?

- [ ] A) 67
- [ ] B) 122
- [ ] C) 69
- [ ] D) 71
- [ ] E) 68

---

25 Find the next number in this series.
6, 4, 10, 14, 24, 38, 62, ?

- [ ] A) 101
- [ ] B) 100
- [ ] C) 99
- [ ] D) 86
- [ ] E) 98

---

26 Find the next number in this series.
14, 29, 44, 59, 74, 89, ?

- [ ] A) 114
- [ ] B) 178
- [ ] C) 104
- [ ] D) 105
- [ ] E) 103

© Revision Library | revisionlibrary.co.uk

27 Find the next number in this series.

3, 30, 6, 27, 9, 24, ?

- ☐ A) 11
- ☐ B) 12
- ☐ C) 13
- ☐ D) 15
- ☐ E) 21

---

28 Find the next number in this series.

5, 9, 17, 33, 65, 129, ?

- ☐ A) 256
- ☐ B) 258
- ☐ C) 193
- ☐ D) 257
- ☐ E) 129

---

29 Find the next number in this series.

21, 58, 18, 61, 15, 64, 12, 67, ?

- ☐ A) 9
- ☐ B) 10
- ☐ C) 12
- ☐ D) 122
- ☐ E) 8

---

30 Find the next number in this series.

4, 7, 10, 13, 16, 19, ?

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

© Revision Library | revisionlibrary.co.uk

31 Find the next number in this series.
3, 46, 8, 43, 13, 40, 18, 37, ?

- [ ] A) 23
- [ ] B) 24
- [ ] C) 22
- [ ] D) 56
- [ ] E) 33

---

32 Find the next number in this series.
11, 12, 14, 17, 21, 26, ?

- [ ] A) 30
- [ ] B) 33
- [ ] C) 32
- [ ] D) 23
- [ ] E) 31

---

33 Find the next number in this series.
39, 33, 27, 21, 15, 9, ?

- [ ] A) 1
- [ ] B) 3
- [ ] C) 2
- [ ] D) 4
- [ ] E) 13

---

34 Find the next number in this series.
27, 33, 39, 45, 51, ?

- [ ] A) 56
- [ ] B) 60
- [ ] C) 55
- [ ] D) 57
- [ ] E) 58

© Revision Library | revisionlibrary.co.uk

35 Find the next number in this series.
40, 44, 51, 61, 74, 90, ?

- [ ] A) 108
- [ ] B) 119
- [ ] C) 106
- [ ] D) 109
- [ ] E) 110

---

36 Find the next number in this series.
65, 82, 101, 122, 145, 170, ?

- [ ] A) 195
- [ ] B) 210
- [ ] C) 197
- [ ] D) 196
- [ ] E) 198

---

37 Find the next number in this series.
51, 53, 55, 57, 59, 61, ?

- [ ] A) 62
- [ ] B) 61
- [ ] C) 64
- [ ] D) 122
- [ ] E) 63

---

38 Find the next number in this series.
6, 61, 11, 67, 16, 73, 21, 79, ?

- [ ] A) 26
- [ ] B) 137
- [ ] C) 25
- [ ] D) 27
- [ ] E) 36

© Revision Library | revisionlibrary.co.uk

39 Find the next number in this series.
56, 61, 66, 71, 76, 81, ?

- [ ] A) 81
- [ ] B) 87
- [ ] C) 86
- [ ] D) 85
- [ ] E) 162

---

40 Find the next number in this series.
56, 50, 44, 38, 32, ?

- [ ] A) 24
- [ ] B) 62
- [ ] C) 27
- [ ] D) 25
- [ ] E) 26

---

41 Find the next number in this series.
31, 37, 43, 49, 55, 61, ?

- [ ] A) 65
- [ ] B) 66
- [ ] C) 77
- [ ] D) 67
- [ ] E) 68

---

42 Find the next number in this series.
189, 184, 176, 165, 151, 134, ?

- [ ] A) 115
- [ ] B) 114
- [ ] C) 113
- [ ] D) 117
- [ ] E) 124

© Revision Library | revisionlibrary.co.uk

43 Find the next number in this series.
38, 44, 51, 59, 68, 78, 89, ?

- [ ] A) 100
- [ ] B) 101
- [ ] C) 99
- [ ] D) 89
- [ ] E) 102

---

44 Find the next number in this series.
39, 32, 25, 18, 11, ?

- [ ] A) 4
- [ ] B) 5
- [ ] C) 2
- [ ] D) 3
- [ ] E) 11

---

45 Find the next number in this series.
26, 50, 31, 55, 36, 60, 41, 65, ?

- [ ] A) 89
- [ ] B) 47
- [ ] C) 46
- [ ] D) 64
- [ ] E) 45

---

46 Find the next number in this series.
18, 20, 26, 36, 50, 68, ?

- [ ] A) 86
- [ ] B) 9
- [ ] C) 89
- [ ] D) 90
- [ ] E) 91

© Revision Library | revisionlibrary.co.uk

47 Find the next number in this series.
22, 34, 46, 58, 70, 82, ?

- [ ] A) 164
- [ ] B) 92
- [ ] C) 94
- [ ] D) 93
- [ ] E) 95

---

48 Find the next number in this series.
24, 27, 31, 36, 42, 49, 57, ?

- [ ] A) 76
- [ ] B) 66
- [ ] C) 67
- [ ] D) 65
- [ ] E) 57

---

49 Find the next number in this series.
218, 216, 211, 203, 192, 178, 161, ?

- [ ] A) 131
- [ ] B) 144
- [ ] C) 142
- [ ] D) 140
- [ ] E) 141

---

50 Find the next number in this series.
43, 52, 61, 70, 79, 88, ?

- [ ] A) 107
- [ ] B) 96
- [ ] C) 98
- [ ] D) 97
- [ ] E) 101

© Revision Library | revisionlibrary.co.uk

51 Find the next number in this series.
2, 5, 7, 12, 19, 31, 50, ?

- [ ] A) 96
- [ ] B) 81
- [ ] C) 80
- [ ] D) 82
- [ ] E) 69

---

52 Find the next number in this series.
48, 50, 53, 57, 62, 68, ?

- [ ] A) 78
- [ ] B) 76
- [ ] C) 74
- [ ] D) 75
- [ ] E) 57

---

53 Find the next number in this series.
4, 12, 20, 28, 36, 44, ?

- [ ] A) 53
- [ ] B) 51
- [ ] C) 52
- [ ] D) 62
- [ ] E) 88

---

54 Find the next number in this series.
9, 49, 15, 54, 21, 59, 27, 64, ?

- [ ] A) 33
- [ ] B) 34
- [ ] C) 32
- [ ] D) 101
- [ ] E) 43

© Revision Library | revisionlibrary.co.uk

55 Find the next number in this series.
12, 37, 62, 87, 112, ?

- [ ] A) 731
- [ ] B) 224
- [ ] C) 138
- [ ] D) 137
- [ ] E) 136

---

56 Find the next number in this series.
8, 10, 13, 17, 22, 28, 35, ?

- [ ] A) 43
- [ ] B) 35
- [ ] C) 34
- [ ] D) 42
- [ ] E) 44

---

57 Find the next number in this series.
2, 8, 32, 128, 512, ?

- [ ] A) 1024
- [ ] B) 2047
- [ ] C) 2048
- [ ] D) 2049
- [ ] E) 896

---

58 Find the next number in this series.
116, 115, 112, 107, 100, 91, 80, ?

- [ ] A) 160
- [ ] B) 67
- [ ] C) 66
- [ ] D) 69
- [ ] E) 68

© Revision Library | revisionlibrary.co.uk

59 Find the next number in this series.
44, 40, 36, 32, 28, ?

- ☐ A) 25
- ☐ B) 23
- ☐ C) 22
- ☐ D) 34
- ☐ E) 24

---

60 Find the next number in this series.
185, 182, 175, 164, 149, 130, ?

- ☐ A) 107
- ☐ B) 701
- ☐ C) 106
- ☐ D) 111
- ☐ E) 108

---

61 Find the next number in this series.
33, 36, 43, 54, 69, 88, 111, ?

- ☐ A) 134
- ☐ B) 138
- ☐ C) 137
- ☐ D) 139
- ☐ E) 151

---

62 Find the next number in this series.
5, 9, 13, 17, 21, ?

- ☐ A) 35
- ☐ B) 24
- ☐ C) 26
- ☐ D) 42
- ☐ E) 25

© Revision Library | revisionlibrary.co.uk

63 Find the next number in this series.
21, 60, 18, 62, 15, 64, 12, 66, ?

- [ ] A) 8
- [ ] B) 19
- [ ] C) 120
- [ ] D) 10
- [ ] E) 9

---

64 Find the next number in this series.
39, 46, 53, 60, 67, 74, ?

- [ ] A) 82
- [ ] B) 80
- [ ] C) 81
- [ ] D) 148
- [ ] E) 84

---

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

- [ ] A) 98
- [ ] B) 96
- [ ] C) 89
- [ ] D) 99
- [ ] E) 97

---

66 Find the next number in this series.
39, 43, 48, 54, 61, 69, ?

- [ ] A) 79
- [ ] B) 69
- [ ] C) 76
- [ ] D) 78
- [ ] E) 77

© Revision Library | revisionlibrary.co.uk

67 Find the next number in this series.
129, 128, 124, 117, 107, 94, ?

- [ ] A) 94
- [ ] B) 77
- [ ] C) 79
- [ ] D) 81
- [ ] E) 78

---

68 Find the next number in this series.
28, 35, 42, 49, 56, 63, ?

- [ ] A) 7
- [ ] B) 69
- [ ] C) 70
- [ ] D) 71
- [ ] E) 68

---

69 Find the next number in this series.
18, 83, 20, 85, 22, 87, 24, 89, ?

- [ ] A) 27
- [ ] B) 89
- [ ] C) 25
- [ ] D) 26
- [ ] E) 154

---

70 Find the next number in this series.
47, 38, 29, 20, 11, ?

- [ ] A) 3
- [ ] B) 2
- [ ] C) 11
- [ ] D) 1
- [ ] E) 12

© Revision Library | revisionlibrary.co.uk

71 Find the next number in this series.
18, 21, 27, 36, 48, 63, ?

- [ ] A) 78
- [ ] B) 82
- [ ] C) 90
- [ ] D) 81
- [ ] E) 80

---

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

- [ ] A) 32
- [ ] B) 23
- [ ] C) 31
- [ ] D) 27
- [ ] E) 33

---

73 Find the next number in this series.
210, 204, 194, 180, 162, 140, ?

- [ ] A) 115
- [ ] B) 124
- [ ] C) 114
- [ ] D) 113
- [ ] E) 118

---

74 Find the next number in this series.
30, 32, 38, 48, 62, 80, ?

- [ ] A) 103
- [ ] B) 98
- [ ] C) 80
- [ ] D) 101
- [ ] E) 102

© Revision Library | revisionlibrary.co.uk

75 Find the next number in this series.
115, 109, 102, 94, 85, 75, ?

- [ ] A) 46
- [ ] B) 63
- [ ] C) 64
- [ ] D) 65
- [ ] E) 150

---

76 Find the next number in this series.
4, 9, 17, 28, 42, 59, ?

- [ ] A) 89
- [ ] B) 76
- [ ] C) 79
- [ ] D) 80
- [ ] E) 78

---

77 Find the next number in this series.
7, 12, 19, 28, 39, 52, ?

- [ ] A) 67
- [ ] B) 65
- [ ] C) 68
- [ ] D) 74
- [ ] E) 66

© Revision Library | revisionlibrary.co.uk

Mark scheme · 3.16 Number Series: 1-hour Pack

Question 1

D) 38 - the difference between terms increases by 2 each time (3, 5, 7, 9, 11), so 27+11=38 **B1**

Answer: D) 38

Question 2

B) 2186 - each term is the previous term multiplied by 3 then +2: 2, 8, 26, 80, 242, 728, 2186 **B1**

Answer: B) 2186

Question 3

E) 5 - each term decreases by 9: 50, 41, 32, 23, 14, 5 **B1**

Answer: E) 5

Question 4

E) 28 - two series are woven together: the odd terms change by +6 and the even terms change by +5: 4, 45, 10, 50, 16, 55, 22, 60, 28 **B1**

Answer: E) 28

Question 5

A) 113 - each term increases by 12: 41, 53, 65, 77, 89, 101, 113 **B1**

Answer: A) 113

Question 6

B) 43 - each term increases by 5: 13, 18, 23, 28, 33, 38, 43 **B1**

Answer: B) 43

Question 7

C) 60 - the amount added changes by 2 each time (2, 4, 6, 8, 10, 12, 14): 4, 6, 10, 16, 24, 34, 46, 60 **B1**

Answer: C) 60

Question 8

C) 53 - the amount subtracted changes by 1 each time (3, 4, 5, 6, 7, 8): 86, 83, 79, 74, 68, 61, 53 **B1**

Answer: C) 53

Question 9

D) 95 - each term is double the previous term plus 1 (2, 5, 11, 23, 47, 95) **B1**

Answer: D) 95

Question 10

E) 111 - each term increases by 15: 21, 36, 51, 66, 81, 96, 111 **B1**

Answer: E) 111

Question 11

A) 107 - the amount subtracted changes by 4 each time (1, 5, 9, 13, 17, 21): 173, 172, 167, 158, 145, 128, 107 **B1**

Answer: A) 107

Question 12

D) 152 - the amount added changes by 4 each time (5, 9, 13, 17, 21, 25, 29): 33, 38, 47, 60, 77, 98, 123, 152 **B1**

Answer: D) 152

Question 13

B) 39 - each term decreases by 3: 57, 54, 51, 48, 45, 42, 39 **B1**

Answer: B) 39

Question 14

C) 128 - the amount subtracted changes by 3 each time (2, 5, 8, 11, 14, 17, 20): 205, 203, 198, 190, 179, 165, 148, 128 **B1**

Answer: C) 128

Question 15

E) 65 - each term increases by 7: 23, 30, 37, 44, 51, 58, 65 **B1**

Answer: E) 65

Question 16

D) 132 - each term increases by 12: 60, 72, 84, 96, 108, 120, 132 **B1**

Answer: D) 132

Question 17

E) 158 - the amount added changes by 4 each time (6, 10, 14, 18, 22, 26, 30): 32, 38, 48, 62, 80, 102, 128, 158 **B1**

Answer: E) 158

Question 18

B) 17 - each term decreases by 3: 32, 29, 26, 23, 20, 17 **B1**

Answer: B) 17

Question 19

C) 10 - each term decreases by 7: 52, 45, 38, 31, 24, 17, 10 **B1**

Answer: C) 10

Question 20

C) 121 - the amount added changes by 4 each time (4, 8, 12, 16, 20, 24, 28): 9, 13, 21, 33, 49, 69, 93, 121 **B1**

Answer: C) 121

Question 21

A) 155 - the amount added changes by 4 each time (6, 10, 14, 18, 22, 26, 30): 29, 35, 45, 59, 77, 99, 125, 155 **B1**

Answer: A) 155

Question 22

C) 208 - each term increases by 25: 58, 83, 108, 133, 158, 183, 208 **B1**

Answer: C) 208

Question 23

D) 169 - the terms are square numbers: 49, 64, 81, 100, 121, 144, 169 **B1**

Answer: D) 169

© Revision Library | revisionlibrary.co.uk

Question 24

E) 68 - each term increases by 7: 26, 33, 40, 47, 54, 61, 68 **B1**

Answer: E) 68

Question 25

B) 100 - each term is the sum of the two terms before it: 6, 4, 10, 14, 24, 38, 62, 100 **B1**

Answer: B) 100

Question 26

C) 104 - each term increases by 15: 14, 29, 44, 59, 74, 89, 104 **B1**

Answer: C) 104

Question 27

B) 12 - two series are woven together: one adding 3 each time (3, 6, 9, ?) and one subtracting 3 each time (30, 27, 24); the next term continues the first series to give 12 **B1**

Answer: B) 12

Question 28

D) 257 - each term is the previous term multiplied by 2 then -1: 5, 9, 17, 33, 65, 129, 257 **B1**

Answer: D) 257

Question 29

A) 9 - two series are woven together: the odd terms change by -3 and the even terms change by +3: 21, 58, 18, 61, 15, 64, 12, 67, 9 **B1**

Answer: A) 9

Question 30

E) 22 - each term increases by 3: 4, 7, 10, 13, 16, 19, 22 **B1**

Answer: E) 22

Question 31

A) 23 - two series are woven together: the odd terms change by +5 and the even terms change by -3: 3, 46, 8, 43, 13, 40, 18, 37, 23 **B1**

Answer: A) 23

Question 32

C) 32 - the amount added changes by 1 each time (1, 2, 3, 4, 5, 6): 11, 12, 14, 17, 21, 26, 32 **B1**

Answer: C) 32

Question 33

B) 3 - each term decreases by 6: 39, 33, 27, 21, 15, 9, 3 **B1**

Answer: B) 3

Question 34

D) 57 - each term increases by 6: 27, 33, 39, 45, 51, 57 **B1**

Answer: D) 57

Question 35

D) 109 - the amount added changes by 3 each time (4, 7, 10, 13, 16, 19): 40, 44, 51, 61, 74, 90, 109 **B1**

Answer: D) 109

Question 36

C) 197 - the terms are square numbers +1: 65, 82, 101, 122, 145, 170, 197 **B1**

Answer: C) 197

Question 37

E) 63 - each term increases by 2: 51, 53, 55, 57, 59, 61, 63 **B1**

Answer: E) 63

Question 38

A) 26 - two series are woven together: the odd terms change by +5 and the even terms change by +6: 6, 61, 11, 67, 16, 73, 21, 79, 26 **B1**

Answer: A) 26

Question 39

C) 86 - each term increases by 5: 56, 61, 66, 71, 76, 81, 86 **B1**

Answer: C) 86

Question 40

E) 26 - each term decreases by 6: 56, 50, 44, 38, 32, 26 **B1**

Answer: E) 26

Question 41

D) 67 - each term increases by 6: 31, 37, 43, 49, 55, 61, 67 **B1**

Answer: D) 67

Question 42

B) 114 - the amount subtracted changes by 3 each time (5, 8, 11, 14, 17, 20): 189, 184, 176, 165, 151, 134, 114 **B1**

Answer: B) 114

Question 43

B) 101 - the amount added changes by 1 each time (6, 7, 8, 9, 10, 11, 12): 38, 44, 51, 59, 68, 78, 89, 101 **B1**

Answer: B) 101

Question 44

A) 4 - each term decreases by 7: 39, 32, 25, 18, 11, 4 **B1**

Answer: A) 4

Question 45

C) 46 - two series are woven together: the odd terms change by +5 and the even terms change by +5: 26, 50, 31, 55, 36, 60, 41, 65, 46 **B1**

Answer: C) 46

Question 46

D) 90 - the amount added changes by 4 each time (2, 6, 10, 14, 18, 22): 18, 20, 26, 36, 50, 68, 90 **B1**

Answer: D) 90

Question 47

C) 94 - each term increases by 12: 22, 34, 46, 58, 70, 82, 94 **B1**

Answer: C) 94

Question 48

B) 66 - the amount added changes by 1 each time (3, 4, 5, 6, 7, 8, 9): 24, 27, 31, 36, 42, 49, 57, 66 **B1**

Answer: B) 66

© Revision Library | revisionlibrary.co.uk

Question 49

E) 141 - the amount subtracted changes by 3 each time (2, 5, 8, 11, 14, 17, 20): 218, 216, 211, 203, 192, 178, 161, 141 **B1**

Answer: E) 141

Question 50

D) 97 - each term increases by 9: 43, 52, 61, 70, 79, 88, 97 **B1**

Answer: D) 97

Question 51

B) 81 - each term is the sum of the two terms before it: 2, 5, 7, 12, 19, 31, 50, 81 **B1**

Answer: B) 81

Question 52

D) 75 - the amount added changes by 1 each time (2, 3, 4, 5, 6, 7): 48, 50, 53, 57, 62, 68, 75 **B1**

Answer: D) 75

Question 53

C) 52 - each term increases by 8: 4, 12, 20, 28, 36, 44, 52 **B1**

Answer: C) 52

Question 54

A) 33 - two series are woven together: the odd terms change by +6 and the even terms change by +5: 9, 49, 15, 54, 21, 59, 27, 64, 33 **B1**

Answer: A) 33

Question 55

D) 137 - each term increases by 25: 12, 37, 62, 87, 112, 137 **B1**

Answer: D) 137

Question 56

A) 43 - the amount added changes by 1 each time (2, 3, 4, 5, 6, 7, 8): 8, 10, 13, 17, 22, 28, 35, 43 **B1**

Answer: A) 43

Question 57

C) 2048 - each term is multiplied by 4: 2, 8, 32, 128, 512, 2048 **B1**

Answer: C) 2048

Question 58

B) 67 - the amount subtracted changes by 2 each time (1, 3, 5, 7, 9, 11, 13): 116, 115, 112, 107, 100, 91, 80, 67 **B1**

Answer: B) 67

Question 59

E) 24 - each term decreases by 4: 44, 40, 36, 32, 28, 24 **B1**

Answer: E) 24

Question 60

A) 107 - the amount subtracted changes by 4 each time (3, 7, 11, 15, 19, 23): 185, 182, 175, 164, 149, 130, 107 **B1**

Answer: A) 107

Question 61

B) 138 - the amount added changes by 4 each time (3, 7, 11, 15, 19, 23, 27): 33, 36, 43, 54, 69, 88, 111, 138 **B1**

Answer: B) 138

Question 62

E) 25 - each term increases by 4: 5, 9, 13, 17, 21, 25 **B1**

Answer: E) 25

Question 63

E) 9 - two series are woven together: the odd terms change by -3 and the even terms change by +2: 21, 60, 18, 62, 15, 64, 12, 66, 9 **B1**

Answer: E) 9

Question 64

C) 81 - each term increases by 7: 39, 46, 53, 60, 67, 74, 81 **B1**

Answer: C) 81

Question 65

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

Answer: A) 98

Question 66

D) 78 - the amount added changes by 1 each time (4, 5, 6, 7, 8, 9): 39, 43, 48, 54, 61, 69, 78 **B1**

Answer: D) 78

Question 67

E) 78 - the amount subtracted changes by 3 each time (1, 4, 7, 10, 13, 16): 129, 128, 124, 117, 107, 94, 78 **B1**

Answer: E) 78

Question 68

C) 70 - each term increases by 7: 28, 35, 42, 49, 56, 63, 70 **B1**

Answer: C) 70

Question 69

D) 26 - two series are woven together: the odd terms change by +2 and the even terms change by +2: 18, 83, 20, 85, 22, 87, 24, 89, 26 **B1**

Answer: D) 26

Question 70

B) 2 - each term decreases by 9: 47, 38, 29, 20, 11, 2 **B1**

Answer: B) 2

Question 71

D) 81 - the amount added changes by 3 each time (3, 6, 9, 12, 15, 18): 18, 21, 27, 36, 48, 63, 81 **B1**

Answer: D) 81

Question 72

A) 32 - each term increases by 5: 7, 12, 17, 22, 27, 32 **B1**

Answer: A) 32

Question 73

C) 114 - the amount subtracted changes by 4 each time (6, 10, 14, 18, 22, 26): 210, 204, 194, 180, 162, 140, 114 **B1**

Answer: C) 114

© Revision Library | revisionlibrary.co.uk

Question 74

E) 102 - the amount added changes by 4 each time (2, 6, 10, 14, 18, 22): 30, 32, 38, 48, 62, 80, 102 **B1**

Answer: E) 102

Question 75

C) 64 - the amount subtracted changes by 1 each time (6, 7, 8, 9, 10, 11): 115, 109, 102, 94, 85, 75, 64 **B1**

Answer: C) 64

Question 76

C) 79 - the amount added changes by 3 each time (5, 8, 11, 14, 17, 20): 4, 9, 17, 28, 42, 59, 79 **B1**

Answer: C) 79

Question 77

A) 67 - the amount added changes by 2 each time (5, 7, 9, 11, 13, 15): 7, 12, 19, 28, 39, 52, 67 **B1**

Answer: A) 67

© Revision Library | revisionlibrary.co.uk