



3

Number Series

Let us begin by observing the following series:

2, 4, 6, 8, 10,

clearly, it is an even number series.

Now, let us observe the following series:

62, 127, 214, 345, 510,

This series is obtained by alternatively subtracting and adding 2 to the cubes of natural numbers beginning with 4.

i.e., 62, 127, 214, 345, 510,

↓ ↓ ↓ ↓ ↓

$(4^3 - 2)$ $(5^3 + 2)$ $(6^3 - 2)$ $(7^3 + 2)$ $(8^3 - 2)$

The pattern of the first series can be more easily understood as compared to the second one because we are more familiar with the first pattern, i.e; even numbers.

So, let us familiarise ourselves with more such patterns.

Type 1: Even/odd number series

Example 1: 2, 4, 6, 8, 10,

The above series is an even number series. The next term in this series is 12.

Example 2: 1, 3, 5, 7, 9,

This is an odd number series. The next term will be 11.

Type 2: Prime number series

Example 1: 2, 3, 5, 7,

The next term will be 11.

Example 2: 3, 7, 13, 19,

This series is formed by picking up alternate terms from the prime number series beginning with 3.

3, 5, 7, 11, 13, 17, 19, 23, 29

So, the next term will be 29.

Example 3: 3, 7, 17,

This series is formed by picking up terms from the prime number series beginning with 3 and leaving out one term, two terms, three terms and so on successively in between.

3, 5, 7, 11, 13, 17, 19, 23, 29, 31

So, the next term will be 31.

**Type 3: Series formed by squares of numbers****Example 1:** 4, 9, 16, 25, 36,

This series is formed by squares of successive numbers beginning with 2

$$2^2, 3^2, 4^2, 5^2, 6^2, 7^2$$

So, the next term will be 49.

Example 2: 1, 9, 25, 49, 81,

These are squares of odd numbers.

$$1^2, 3^2, 5^2, 7^2, 9^2, 11^2$$

So, the next term will be 121.

Type 4: Series formed by Cubes of numbers**Example 1:** 64, 125, 216, 343,

These are cubes of successive numbers beginning with 4.

So, the next term will be 512.

Example 2: 8, 27, 125, 343,

These are cubes of prime numbers.

So, the next term will be $11^3 = 1331$.**Type 5 : Series formed by addition****Example 1:** 12, 13, 15, 17,

This series is formed by adding 10 to each term of the prime number series beginning with 2.

$$(2 + 10), (3 + 10), (5 + 10), (7 + 10)$$

So, the next term will be $(11 + 10) = 21$.**Example 2:** 1, 3, 4, 8, 15, 27,

Previous three terms are added to find the terms beginning from 8.

$$1 + 3 + 4 = 8, 3 + 4 + 8 = 15, 4 + 8 + 15 = 27, 8 + 15 + 27 = 50$$

So, the next term will be 50.

**Type 6: Series formed by multiplication****Example 1:** 0.5, 1.5, 4.5, 13.5,

Here, each term is formed by multiplying the previous term by 3. So, the next will be 40.5.

Example 2: 1, 3, 7, 15, 31, 63,

Each term is formed by multiplying the previous term by 2 and adding 1

So, the next term will be $\rightarrow 63 \times 2 + 1 = 127$.**Type 7: Series formed by division****Example 1:** 840, 168, 42, 14, 7, $(840 \div 5) = 168, (168 \div 4) = 42, (42 \div 3) = 14, (14 \div 2) = 7, (7 \div 1) = 7$.

So, the next term will be 7.

Example 2: 240, ...?..., 120, 40, 10, 2. $240 \div 1 = 240, 240 \div 2 = 120, 120 \div 3 = 40, 40 \div 4 = 10, 10 \div 5 = 2$.

So, the missing term is 240.

Type 8: Series formed by subtracting or adding something to squares of successive terms.**Example 1:** 12, 20, 30, 42,

This series is formed by squaring a term and adding the same term to the square.

 $3^2 + 3 = 12, 4^2 + 4 = 20, 5^2 + 5 = 30, 6^2 + 6 = 42, 7^2 + 7 = 56$.

So, the next term will be 56.

Example 2: 3, 7, 13, 21, $1^2 + 2, 2^2 + 3, 3^2 + 4, 4^2 + 5, 5^2 + 6$.

So, the next term will be 31.

Type 9: Series formed by subtracting or adding something to cubes of successive terms.**Example 1:** 0, 6, 24, 60, 120, $1^3 - 1 = 0, 2^3 - 2 = 6, 3^3 - 3 = 24, 5^3 - 5 = 120, 6^3 - 6 = 210$

So, the next term will be 210.

Example 2: 10, 24, 68, 120, $2^3 + 2 = 10, 3^3 - 3 = 24, 4^3 + 4 = 68, 5^3 - 5 = 120, 6^3 + 6 = 222$.

So, the next term will be 222.

**Type 10: Combination of two different series.**

Example 1: $\frac{1}{3}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, \dots$

The numerators term a series of odd numbers. The series of denominators is formed by multiplying the previous number by 2.

Numerators: 1, 3, 5, 7, 9 ; Denominators : 2, 4, 8, 16, 32

So, the next term will be $\frac{9}{32}$

Example 2: 512, 16, 343, 25,

It is a combination of two series.

$8^3, 4^2, 7^3, 5^2, \dots$

So, the next term will be $6^3 = 216$.

Type 11: Series formed by adding terms at more than one level

Example: 5, 12, 27, 58, 121,

Sol. 5, 12, 27, 58, 121, 248
 +7 +15 +31 +63 +127
 +8 +16 +32 +64

So, the next term will be 248.

Some Important Series

(i) 8, 4, 4, 6, 12,

$$8 \times \frac{1}{2}, 4 \times 1 = 4, 4 \times \frac{3}{2} = 6, 6 \times 2 = 12, 12 \times \frac{5}{2} = 30$$

So, the next term will be 30.

(ii) 6, 9, 18, 45,

$$6 \times \frac{3}{2} = 9, 9 \times 2 = 18, 18 \times \frac{5}{2} = 45, 45 \times 3 = 135.$$

**Some point to remember**

(i) If a series increases abruptly then it may be a case of series formed by multiplication.

Example: 2, 3, 6, 18, 108, 1944.

Here, each term is formed by multiplying previous two terms.

(ii) If a series decreases abruptly, then it may be a case of series formed by division.

Example: 6120, 1020, 204, 51, 17.

$6120 \div 6 = 1020, 1020 \div 5 = 204, 204 \div 4 = 51$ and so on.

(iii) If a series decreases in the beginning and then goes on increasing, it may be a case of multiplication by fractional values.

Example: 8, 4, 4, 6, 12,

$$8 \times \frac{3}{2} = 4, 4 \times 1 = 4, 4 \times \frac{3}{2} = 6, 6 \times 2 = 12, \text{ and soon.}$$

(iv) The given series may be a combination of two different series in the following cases:

(a) Fractional terms are given in the question with numerators forming one series and denominators forming another series.

(b) Series increases and then decreases and again increases and then decreases and so on.

Example: 15, 14, 19, 11, 23, 8, 27,

$$1^{\text{st}} \text{ series } \div 15, 19, 23, 27, \dots \quad 2^{\text{nd}} \text{ series } \div 14, 11, 8, \dots$$

(c) When more terms are given in the question as compared to normal cases.

for example in case (b) above we have 7 terms given in the question. in such a situation check for the case of two different series being mixed.



Number Series Exercise

1. 2, 3, 5, 7, ?

- a) 9
- b) 10
- c) 8
- d) 11
- e) None of these

2. 1, 3, 6, 10, 15, ?

- a) 17
- b) 18
- c) 20
- d) 21
- e) None of these

3. 4, 9, 16, 25, ?

- a) 49
- b) 30
- c) 36
- d) 42
- e) None of these

4. 7, 11, 13, 17, 19, 23, ?

- a) 18
- b) 28
- c) 27
- d) 22
- e) None of these

5. 41, 43, 47, 53, 59, ?

- a) 61
- b) 67
- c) 64
- d) 65
- e) None of these

6. 3, 6, 11, 18, 27, ?

- a) 29
- b) 35
- c) 38
- d) 36
- e) None of these

7. 4, 9, 19, 34, 54, ?

- a) 64
- b) 74
- c) 78
- d) 79
- e) None of these



8. 2, 3, 5, 8, 12, ?

- a) 13 b) 14 c) 15
d) 16 e) None of these

9. 100, 81, 64, 49, ?

- a) 48 b) 46 c) 40
d) 36 e) None of these

10. 8, 27, 64, 125, 216, 343, ?

- a) 443 b) 612 c) 512
d) 543 e) None of these

11. 56, 63, 70, 77, ?

- a) 84 b) 91 c) 80
d) 85 e) None of these

12. 36, 48, 60, 72, ?

- a) 80 b) 78 c) 84
d) 85 e) None of these

13. 54, 72, 90, 108, ?

- a) 110 b) 115 c) 120
d) 126 e) None of these

14. 2, 4, 8, 16, 32, ?

- a) 64 b) 48 c) 42
d) 45 e) None of these

15. 3, 6, 12, 24, 48, ?

- a) 64 b) 70 c) 94
d) 96 e) None of these



16. 0.5, 1, 1.5, ?, 0.75, 0

- a) 2 b) 1.5 c) 1.25
d) 1 e) 0.75

17. 5, 15, 45, 135, ?, 1215

- a) 415 b) 395 c) 410
d) 405 e) 400

18. 90, 96, 102, 108, 114, ?

- a) 116 b) 124 c) 118
d) 122 e) 120

19. 389, 380, 370, 359, ?, 334

- a) 347 b) 345 c) 351
d) 350 e) 348

20. 1, 3, 6, ?, 18, 29

- a) 10 b) 11 c) 9
d) 12 e) 8

21. 280, 295, 325, 370, 430, ?

- a) 515 b) 525 c) 505
d) 490 e) 520

22. 4, 2, 3, 7.5, ?, 118.125

- a) 24.25 b) 28.25 c) 27.25
d) 25.25 e) 26.25

23. 18, 25, 30, ?, 42, 49

- a) 37 b) 35 c) 39
d) 41 e) 43



24. 1, 2, 4, 8, ?, 32

- a) 32 b) 24 c) 12
d) 16 e) 20

25. 121, ?, 169, 196, 225, 256

- a) 148 b) 144 c) 140
d) 136 e) 132

26. 21, 22, ?, 35, 51, 76

- a) 28 b) 23 c) 24
d) 26 e) 29

27. 128, ?, 32, 16, 8, 4

- a) 64 b) 60 c) 68
d) 56 e) 72

28. 16, 22, 28, 34, 40, ?

- a) 44 b) 46 c) 48
d) 42 e) 50

29. 1, 8, 27, ?, 125, 216

- a) 68 b) 66 c) 62
d) 60 e) 64

30. 20, ?, 12, 19, 39, 98.5

- a) 9 b) 10 c) 11
d) 24 e) 12

31. 31, 33, 36, ?, 48, 59

- a) 38 b) 37 c) 43
d) 41 e) 40



32. 6, 36, 180, 720, ?, 4320

- a) 3600 b) 1080 c) 1440
d) 2880 e) 2160

33. 23, 29, ?, 41, 47, 53

- a) 33 b) 35 c) 37
d) 36 e) 39

34. 1, 5, ?, 30, 55, 91

- a) 13 b) 10 c) 9
d) 14 e) 18

35. 5, 10, 20, 35, 55, ?

- a) 85 b) 75 c) 80
d) 70 e) 65

36. 20, 24, 32, ?, 60, 80

- a) 40 b) 44 c) 48
d) 52 e) 46

37. 125, 216, 343, 512, 729, ?

- a) 990 b) 1331 c) 1000
d) 1020 e) 1100

38. 100, 180, 294, 448, 648, ?

- a) 1040 b) 1020 c) 980
d) 1000 e) 900

39. 35, 42, ?, 56, 63, 70

- a) 48 b) 52 c) 45
d) 49 e) 51



40. 2, 4, 12, 48, ?, 1440

- a) 240 b) 216 c) 192
d) 288 e) 180

41. 1, 2, 6, 15 ?

- a) 31 b) 30 c) 25
d) 40 e) 28

42. 12, 14, 17, 22, 29 ?

- a) 41 b) 40 c) 38
d) 45 e) 46

43. 1, 2, 10, 37, 101, ?

- a) 225 b) 227 c) 226
d) 220 e) 221

44. 101, 123, 147, 173, ?

- a) 200 b) 201 c) 202
d) 203 e) 204

45. 24, 30, 23, 31, 22, ?

- a) 32 b) 33 c) 31
d) 34 e) 35

46. 6, 7, 16, 51, 208, ?

- a) 970 b) 845 c) 1085
d) 985 e) 1045

47. 2000, ?, 2164, 2308, 2504, 2760

- a) 2049 b) 2036 c) 2064
d) 2100 e) 2081



48. 800, 770, 728, 672, ?, 510,

$$49. \ 500, 548, 620, ?, 836, 980$$

$$50, 10, 20, 60, 300, ?, 23100$$

$$51, 3, 8, 18, 33, 53, ?$$

- a) 72 b) 80 c) 76
d) 78 e) 73

52. 9, 64, 25, 216, ?, 512

53. 12, 36, 80, 164, 328, ?

- a) 648 b) 664 c) 660
d) 656 e) 652

54, 15, 23, 30, 36, 41, ?

55, 7, 14, 28, ?, 112, 224



56. 250, 375, 591, ?, 1446, 2175

- a) 954 b) 934 c) 914
d) 894 e) 974

57. 30, 90, 360, 1800, 10800, ?

- a) 54000 b) 73200 c) 72800
d) 75600 e) 64800

58. 39600, 6600, ?, 330, 110, 55

- a) 1320 b) 1650 c) 1100
d) 1160 e) 1280

59. 200, ?, 236, 284, 380, 572

- a) 228 b) 208 c) 224
d) 220 e) 212

60. 8000, 7100, 6475, 6075, ?, 5750

- a) 5975 b) 5850 c) 5675
d) 5875 e) 5775

61. 9, 10, 18, 27, 91, ?

- a) 100 b) 144 c) 125
d) 162 e) 116

62. 12, 30, 56, 90, ?, 182

- a) 121 b) 132 c) 144
d) 156 e) 160

63. 5, 15, 75, 525, 4725, ?

- a) 52052 b) 54450 c) 48840
d) 50490 e) 51975



64. 999, ?, 778, 669, 561, 454

- a) 888 b) 887 c) 877
d) 878 e) 886

65. 1, 3, 9, 31, 129, ?

- a) 661 b) 671 c) 651
d) 641 e) 631

66. -5, -10, -15, -30, -45, -90, -180

- a) -10 b) -30 c) -180
d) -45 e) -5

67. 5, 10, 30, 120, 600, 3000, 25200

- a) 10 b) 600 c) 30
d) 3000 e) 25200

68. -12, -6, 2, 6, 12, 18, 24

- a) 2 b) 6 c) -6
d) 18 e) 12

69. 599, 591, 580, 569, 557, 544, 530

- a) 599 b) 557 c) 530
d) 591 e) 544

70. 700, 710, 675, 690, 660, 670, 640

- a) 710 b) 675 c) 660
d) 690 e) 670

71. 132, 156, 182, 210, 235, 272, 306

- a) 306 b) 132 c) 235
d) 272 e) 156



72. 100, 148, 220, 316, 436, 580, 752

- a) 752 b) 220 c) 316
d) 100 e) 436

73. 12, 6, 6, 12, 48, 382, 6144

- a) 6144 b) 6 c) 48
d) 382 e) 12

74. 140, 137, 131, 120, 110, 95, 77

- a) 140 b) 120 c) 131
d) 77 e) 95

75. 16, 9, 10, 16, 34, 83.5, 251.5

- a) 16 b) 10 c) 34
d) 83.5 e) 251.5

76. 5, 13, 29, 61, 125, 255, 509

- a) 125 b) 509 c) 13
d) 61 e) 255

77. 7200, 1200, 6000, 1800, 4500, 2250, 2250

- a) 7200 b) 1800 c) 6000
d) 2250 e) 1200

78. 4000, 3424, 3024, 2768, 2624, 2560, 2524

- a) 3424 b) 2768 c) 2524
d) 2560 e) 3024

79. 80, 40, 60, 180, 525, 2362.5, 12993.75

- a) 180 b) 40 c) 80
d) 2362.5 e) 525



80. 24, 68, 120, 210, 336, 504, 720

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|--------|--------|-------|
| a) 504 | b) 210 | c) 24 |
| d) 68 | e) 336 | |

81. 110, 156, 210, 282, 342, 420, 506

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|--------|--------|--------|
| a) 342 | b) 282 | c) 110 |
| d) 420 | e) 506 | |

82. 2000, 2000, 1000, 3000, 600, 3750, 625

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|---------|---------|--------|
| a) 1000 | b) 3750 | c) 625 |
| d) 600 | e) 3000 | |

83. 2, 2, 5, 17, 72, 359, 2159

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|-------|---------|------|
| a) 72 | b) 359 | c) 5 |
| d) 17 | e) 2159 | |

84. 9000, 7920, 7020, 6300, 5760, 5400, 5200

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|---------|---------|---------|
| a) 5400 | b) 9000 | c) 6300 |
| d) 7020 | e) 5200 | |

85. 100, 120, 154, 192, 248, 320, 410

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|--------|--------|--------|
| a) 100 | b) 248 | c) 410 |
| d) 154 | e) 120 | |

86. 7, 4, 5, 8.5, 20, 52.5, 160.

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|---------|-------|--------|
| a) 4 | b) 20 | c) 8.5 |
| d) 52.5 | e) 7 | |

87. 160, 207, 260, 319, 380, 449, 518

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|--------|--------|--------|
| a) 160 | b) 319 | c) 207 |
| d) 449 | e) 380 | |



88. 12, 6, 6, 12, 36, 231, 1848

- a) 12 b) 1848 c) 36
d) 231 e) Series is right

89. 14700, 2100, 12600, 2500, 10080, 3360, 6720

- a) 2100 b) 12600 c) 10080
d) 3360 e) 2500

90. 20.25, 23.04, 26.01, 29.16, 32.56, 36.00, 39.69

- a) 36.00 b) 23.04 c) 32.56
d) 20.25 e) 29.16

91. 8, 12, 24, 60, 180, 640, 2520

- a) 60 b) 180 c) 2520
d) 640 e) 8

92. -1, 1, 2, 6, 14, 30, 62

- a) 1 b) 62 c) -1
d) 14 e) 30

93. 3, 4, 12, 41, 103, 228, 444

- a) 228 b) 3 c) 41
d) 444 e) 103

94. 5, 3, 4, 7, 17, 45, 138

- a) 3 b) 7 c) 17
d) 45 e) 138

95. 17, 25, 38, 53, 79, 107, 140

- a) 79 b) 140 c) 25
d) 53 e) 107



96. 102, 83, 66, 50, 38, 27, 18

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|--------|-------|-------|
| a) 102 | b) 83 | c) 38 |
| d) 50 | e) 66 | |

97. 2, 12, 36, 80, 150, 251, 392

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|--------|--------|--------|
| a) 36 | b) 80 | c) 251 |
| d) 392 | e) 150 | |

98. 2, 3, 5, 7, 11, 15, 17

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|-------|-------|-------|
| a) 3 | b) 11 | c) 15 |
| d) 17 | e) 7 | |

99. 11, 22, 34, 47, 61, 77, 92

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|-------|-------|-------|
| a) 77 | b) 61 | c) 92 |
| d) 22 | e) 34 | |

100. 2, 6, 11, 23, 47, 95, 191

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|------|-------|-------|
| a) 6 | b) 11 | c) 47 |
| d) 2 | e) 23 | |

101. 100, 142, 212, 310, 436, 595, 772

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|--------|--------|--------|
| a) 142 | b) 595 | c) 310 |
| d) 772 | e) 436 | |

102. 72, 80, 144, 360, 864, 1872, 3600

- | | | |
|--------|---------|-------|
| a) 360 | b) 144 | c) 80 |
| d) 864 | e) 1872 | |

103. 12, 14, 31, 96, 393, 1971, 11833

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|---------|----------|-------|
| a) 393 | b) 31 | c) 96 |
| d) 1971 | e) 11833 | |



104. 132, 156, 182, 210, 240, 272, 310

- a) 132 b) 272 c) 210
d) 182 e) 310

105. 16000, 8000, 24000, 6000, 30000, 7500, 35000

- a) 8000 b) 7500 c) 30000
d) 6000 e) 35000

106. 3, 10, 31, 94, 283, 848, 2551

- a) 31 b) 10 c) 2551
d) 848 e) 3

107. 8, 127, 1015, 4059, 8117, 8116, 4055

- a) 8 b) 4055 c) 127
d) 4059 e) None of these

108. 180, 200, 225, 254, 286, 322, 355

- a) 322 b) 180 c) 286
d) 355 e) 200

109. 1750, 1750, 1743, 1717, 1654, 1529, 1315

- a) 1750 b) 1743 c) 1529
d) 1717 e) 1315

110. 5, 19, 75, 299, 1195, 4779, 19125

- a) 5 b) 19 c) 299
d) 4779 e) 19125

111. 158, 156, 168, 148, 176, 140, 184

- a) 158 b) 148 c) 140
d) 156 e) 176



112. 3, 3, 9, 45, 313, 2835, 31185

- | | | |
|----------|-------|--------|
| a) 31185 | b) 9 | c) 313 |
| d) 2835 | e) 45 | |

113. 10, 260, 480, 685, 860, 1010, 1135

- | | | |
|---------|--------|--------|
| a) 1010 | b) 860 | c) 260 |
| d) 10 | e) 480 | |

114. 229, 240, 257, 280, 311, 352, 400

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|--------|--------|--------|
| a) 229 | b) 400 | c) 257 |
| d) 311 | e) 352 | |

115. 1201, 1200, 1197, 1188, 1161, 1082, 837

- | | | |
|---------|---------|--------|
| a) 1200 | b) 1188 | c) 837 |
| d) 1201 | e) 1082 | |

116. 12 30 120 460 1368 2730

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

What will come in place of (d)?

- | | | |
|---------|------------------|---------|
| a) 1384 | b) 2642 | c) 2808 |
| d) 1988 | e) None of these | |

117. 7 91 1001 7007 35035 105105

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

What will come in place of (c) ?

- | | | |
|------------|------------------|------------|
| a) 21132.5 | b) 14514.5 | c) 20020.5 |
| d) 13864.5 | e) None of these | |



118. 582 574 601 537 662 446

- 204 (a) (b) (c) (d) (e)

What will come in place of (d)?

119.85 43 44 67.5 137 345

- 125 (a) (b) (c) (d) (e)

What will come in place of (c) ?

- a) 86
 - b) 107.5
 - c) 112.5
 - d) 97.5
 - e) None of these

120. 1 6 36 240 1960 ?

- a) 19660 b) 3680 c) 36800
d) 19600 e) None of these

121.949 189.8 ? 22.776 11.388 6.8328

- a) 48.24 b) 53.86 c) 74.26
d) 56.94 e) None of these

122.14 43.5 264 ? 76188

123.41164 2624 ? 6045696

- a) 104244 b) 94644 c) 94464
d) 102444 e) None of these

124. 12 12 18 45 180 1170 ?



125. 40280625 732375 16275 465 18.6 1.24 ?

- a) 0.248
- b) 0.336
- c) 0.424
- d) 0.512
- e) 0.639

126. 14 12 21 59 231 1149 ?

- a) 6987
- b) 6787
- c) 6887
- d) 6687
- e) 6587

127. 1728 2744 4096 5832 8000 10648 ?

- a) 12167
- b) 13824
- c) 15625
- d) 9261
- e) 17576

128. 120 15 105 17.5 87.5 ?

- a) 18.5
- b) 19.5
- c) 21.875
- d) 17.5
- e) 90

129. 3 6 21 28 55 66 ? 120

- a) 103
- b) 104
- c) 108
- d) 106
- e) 105

130. 529 841 961 1369 1681 1849 ?

- a) 2809
- b) 2601
- c) 3249
- d) 3481
- e) 2209

131. 3 35 226 1160 4660 13998

- a) 13998
- b) 4660
- c) 226
- d) 1160
- e) None of these

132. 18 119 708 3534 14136 42405

- a) 708
- b) 3534
- c) 14136
- d) 42405
- e) None of these



133. 4 6 18 49 201 1011

- a) 1011 b) 201 c) 18
d) 49 e) None of these

134. 2 54 300 1220 3674 7350

- a) 3674 b) 1220 c) 300
d) 54 e) None of these

135. 0 5 18 43 84 145 ?

- a) 220 b) 240 c) 260
d) 280 e) None of these

136. 10 17 48 165 688 3475 ?

- a) 27584 b) 25670 c) 21369
d) 20892 e) None of these

137. 1 3 24 360 8640 302400 ?

- a) 14525100 b) 154152000 c) 14515200
d) 15425100 e) None of these

138. 12 14 32 102 416 2090 ?

- a) 15522 b) 12552 c) 13525
d) 17552 e) None of these

139. 10 15 15 12.5 9.375 6.5625 ?

- a) 4.375 b) 3.2375 c) 4.6275
d) 3.575 e) None of these

140. 3 22 ? 673 2696 8093

- a) 133 b) 155 c) 156
d) 134 e) None of these



141. 6 13 38 ? 532 2675

- a) 129 b) 123 c) 172
d) 164 e) None of these

142. 17 9 ? 16.5 35 90

- a) 5 b) 15 c) 10
d) 20 e) None of these

143. 3 4 12 ? 196

- a) 45 b) 40 c) 41
d) 49 e) None of these

144. 16 8 12 30 ?

- a) 75 b) 105 c) 95
d) 115 e) None of these

145. 7 12 32 105 ?

- a) 428 b) 214 c) 218
d) 416 e) None of these

146. ?, 100, 150, 375, 1312.5

- a) 100 b) 200 c) 150
d) 400 e) 50

147. 104, ?, 96, 120, 88, 128

- a) 112 b) 110 c) 114
d) 118 e) 108

148. 15, 8, 9, 15, 32, ?

- a) 66 b) 99 c) 80
d) 82.5 e) 80.5



149. 6, 8, 14, 26, 46, ?

- a) 72 b) 84 c) 96
d) 80 e) 76

150. 72000, 36000, 12000, 3000, 600, ?

- a) 120 b) 200 c) 300
d) 150 e) 100

151. 9.8, ?, 8.9, 11.6, 8, 12.5

- a) 10.7 b) 11.7 c) 10.5
d) 10.9 e) 11.3

152. 400, 274, 209, 181, 172, ?

- a) 169 b) 173 c) 168
d) 171 e) 170

153. 1, 1, ?, 15, 105, 945

- a) 2 b) 3 c) 4
d) 1.5 e) 2.5

154. 12, ?, 6, 9, 18, 45

- a) 15 b) 8 c) 6
d) 12 e) 4

155. 34, 18, 10, 6, ?, 3

- a) 9 b) 4 c) 3
d) 2 e) 6

156. 1.5, 3, 12, 72, 576, ?

- a) 5480 b) 5620 c) 5580
d) 5340 e) 5760



157. 80, 66, 85, 61, 90, ?

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|-------|-------|-------|
| a) 50 | b) 56 | c) 64 |
| d) 60 | e) 63 | |

158. 163, ?, 43, 23, 13, 8

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|-------|-------|-------|
| a) 92 | b) 83 | c) 78 |
| d) 54 | e) 69 | |

159. 150, 152, 157, 167, 184, ?

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|--------|--------|--------|
| a) 229 | b) 245 | c) 232 |
| d) 210 | e) 206 | |

160. 3.5, 2.5, 3, 6, 20, ?

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|-------|-------|-------|
| a) 95 | b) 80 | c) 65 |
| d) 75 | e) 90 | |

161. 6300, ?, 525, 105, 17.5, 2.5

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|---------|---------|---------|
| a) 2400 | b) 2100 | c) 4200 |
| d) 5200 | e) 3600 | |

162. 2, 6, 12, 48, 240, 1440, 10080

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|-------|--------|------|
| a) 12 | b) 6 | c) 2 |
| d) 48 | e) 240 | |

163. 5, 9, 25, 59, 125, 225, 369

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|--------|--------|-------|
| a) 369 | b) 225 | c) 25 |
| d) 59 | e) 9 | |

164. 540, 550, 575, 585, 608, 620, 645

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|--------|--------|--------|
| a) 608 | b) 550 | c) 575 |
| d) 645 | e) 585 | |



165. 4, 11, 30, 67, 128, 221, 346

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|-------|--------|--------|
| a) 11 | b) 4 | c) 221 |
| d) 67 | e) 346 | |

166. 189, 186, 181, 174, 165, 155, 141

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|--------|--------|--------|
| a) 189 | b) 181 | c) 165 |
| d) 155 | e) 141 | |

167. 200, 197, 185, 163, 130, ?

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|-------|-------|--------|
| a) 95 | b) 85 | c) 105 |
| d) 86 | e) 84 | |

168. 15, 8, 9, 15, 32, ?

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|---------|---------|---------|
| a) 98 | b) 66 | c) 80.5 |
| d) 82.5 | e) 84.5 | |

169. 5, 30, 150, 600, ?

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|---------|---------|---------|
| a) 1200 | b) 1500 | c) 2400 |
| d) 1800 | e) 600 | |

170. 222, 110, 54, 26, ?

- | | | |
|-------|-------|------|
| a) 10 | b) 12 | c) 8 |
| d) 6 | e) 14 | |

171. 104, ?, 96, 120, 88, 128

- | | | |
|--------|-------|--------|
| a) 112 | b) 96 | c) 116 |
| d) 120 | e) 92 | |



172. 1, 601, 721, 751, (x), 766
753, 769, (y), 765, 763, 764
23, 24, 50, 153, (z), 3085
- a) $x = y = z$ b) $x > y > z$ c) $x > y = z$
d) $x = y > z$ e) $x = z > y$

173. 102, 107, 117, 134, (x)
130, 115, 135, 110, (y)
(z), 80, 120, 300, 1050
- a) $x > y = z$ b) $y < x = z$ c) $x = y = z$
d) $y > x > z$ e) $x = z < y$

174. 11, ?, 16, 21, 29, 41
- a) 12 b) 14 c) 15
d) 13 e) 11

175. 1800, ?, 60, 15, 5, 2.5
- a) 300 b) 600 c) 120
d) 240 e) 360

176. 4, 3, 4, 9, 32, ?
- a) 75 b) 155 c) 125
d) 175 e) 165

177. ?, 100, 150, 375, 1312.5
- a) 50 b) 100 c) 75
d) 25 e) 200

178. 0, 6, 24, 60, ?, 210
- a) 130 b) 170 c) 90
d) 120 e) 150



179. 8, 10, 20, 70, 320, 1570, 7830

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|---------|---------|------|
| a) 7830 | b) 10 | c) 8 |
| d) 320 | e) 1570 | |

180. 18, 20 , 43, 133, 537, 2691, 16163

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|--------|----------|--------|
| a) 43 | b) 16163 | c) 133 |
| d) 537 | e) 2691 | |

181. 124, 140, 108, 156, 92, 172, 78

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|--------|--------|-------|
| a) 108 | b) 124 | c) 78 |
| d) 92 | e) 140 | |

182. 260, 380, 510, 618, 759, 856, 1008

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|--------|---------|--------|
| a) 759 | b) 1008 | c) 260 |
| d) 510 | e) 618 | |

183. 267, 343, 610, 953, 1563, 2515, 4079

- | | | |
|---------|---------|--------|
| a) 4079 | b) 953 | c) 343 |
| d) 267 | e) 2515 | |

184. 36, 80, 166, 340, 690, 1392, 2798

- | | | |
|---------|-------|--------|
| a) 690 | b) 36 | c) 340 |
| d) 1392 | e) 80 | |

185. 30, 100, 230, 490, 1010, 2050, 4130

- | | | |
|--------|---------|---------|
| a) 30 | b) 4130 | c) 1010 |
| d) 490 | e) 2050 | |

186. 2, 3, 6, 15, 45, 156.5, 630

- | | | |
|----------|--------|------|
| a) 2 | b) 15 | c) 3 |
| d) 156.5 | e) 630 | |



187. 36, 20, 12, 8, 6, 5.5, 4.5

- | | | |
|--------|-------|--------|
| a) 8 | b) 36 | c) 5.5 |
| d) 4.5 | e) 6 | |

188. 1, 3, 9, 31, 128, 651, 3913

- | | | |
|---------|--------|------|
| a) 31 | b) 3 | c) 1 |
| d) 3913 | e) 128 | |

189. 2, 3, 10, 40, 172, 885, 5346

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|-------|--------|--------|
| a) 40 | b) 885 | c) 172 |
| d) 3 | e) 10 | |

190. 5, 8, 16, 26, 50, 98, 194

- | | | |
|-------|--------|------|
| a) 5 | b) 194 | c) 8 |
| d) 16 | e) 98 | |

191. 1864, 1521, 1305, ?, 1116, 1089

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|---------|---------|---------|
| a) 1160 | b) 1180 | c) 1095 |
| d) 1205 | e) 1220 | |

192. 18, ?, 9, 18, 72, 576

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|-------|------|-------|
| a) 12 | b) 9 | c) 18 |
| d) 10 | e) 6 | |

193. 12, 6.5, 7.5, 12.75, 27.5, ?

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|----------|------------------|----------|
| a) 66.5 | b) 68.75 | c) 63.75 |
| d) 71.25 | e) None of these | |

194. 5 , 15, 50, ?, 1030, 6185

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|--------|--------|--------|
| a) 210 | b) 205 | c) 225 |
| d) 200 | e) 195 | |



195. 130, 154, 186, ?, 274, 330

- a) 216 b) 220 c) 240
d) 226 e) 230

196. 300, 324, 384, 504, P, 1050

450, 474, Q, 654, 864, 1200

200, 224, 284, 404, R, 850

- a) P > Q < R b) P < Q < R c) P = Q > R
d) P < Q = R e) P < Q > R

197. 2700, 5400, P, 7200, 1440, 8640

2100, Q, 1400, 5600, 1120, 6720

1500, 3000, 1000, R, 800, 4800

- a) P > Q > R b) P < Q = R c) P < Q > R
d) P = Q > R e) P < Q < R

198. 35, 70, 210, P, 4200, 25200

140, 280, Q, 3360, 16800, 100800

40, 80, 240, R, 4800, 28800

- a) P > Q < R b) P < Q > R c) P < Q < R
d) P = Q < R e) P > Q > R

199. 7, 15, 47, 191, Q, 5754

9, 19, 59, P, 1199, 7199

11, 23, 71, 287, R, 8639

- a) P > Q < R b) P < Q > R c) P < Q < R
d) P = Q < R e) P > Q > R

200. 1, 2, 5, 16, 65, 328, 1957

- a) 5 b) 328 c) 16
d) 1957 e) 65



201. 4, 11, 25, 46, 74, 129, 151

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|--------|-------|--------|
| a) 129 | b) 11 | c) 151 |
| d) 4 | d) 46 | |

202. 84, 96, 83, 95, 80, 94, 81

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|-------|-------|-------|
| a) 95 | b) 81 | c) 83 |
| d) 80 | e) 84 | |

203. 3, 5, 8, 17, 33, 58, 94

- | | | |
|------|-------|-------|
| a) 8 | b) 94 | c) 58 |
| d) 3 | e) 5 | |

204. 120, 60, 60, 90, 180, ?

- | | | |
|--------|--------|--------|
| a) 420 | b) 450 | c) 400 |
| d) 500 | e) 540 | |

205. ?, 190, 210, 238, 274, 318

- | | | |
|--------|--------|--------|
| a) 170 | b) 198 | c) 186 |
| d) 178 | e) 190 | |

206. 112, ?, 166, 238, 382, 670

- | | | |
|--------|--------|--------|
| a) 152 | b) 135 | c) 144 |
| d) 126 | e) 130 | |

207. 138, 210, 66, 282, -6, ?

- | | | |
|--------|--------|--------|
| a) 354 | b) 320 | c) 336 |
| d) 348 | e) 360 | |

208. 72, 80, 71, 135, ?, 326

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|--------|--------|-------|
| a) 125 | b) 110 | c) 90 |
| d) 105 | e) 95 | |

Number Series Answer Key

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3	C	24	D	45	A	66	C	87	D	108	A	129	E	150	E	171	A	192	B
4	E	25	B	46	E	67	D	88	C	109	C	130	E	151	A	172	D	193	D
5	A	26	D	47	C	68	A	89	E	110	E	131	C	152	E	173	B	194	B
6	C	27	A	48	B	69	D	90	C	111	A	132	B	153	B	174	D	195	D
7	D	28	B	49	A	70	B	91	D	112	C	133	C	154	C	175	A	196	A
8	E	29	E	50	D	71	C	92	A	113	E	134	A	155	B	176	B	197	C
9	D	30	C	51	D	72	A	93	C	114	B	135	E	156	E	177	E	198	D
10	C	31	D	52	A	73	D	94	B	115	E	136	D	157	B	178	D	199	C
11	A	32	E	53	E	74	B	95	D	116	C	137	C	158	B	179	A	200	B
12	C	33	B	54	D	75	C	96	D	117	B	138	B	159	D	180	B	201	A
13	D	34	D	55	A	76	E	97	C	118	A	139	A	160	A	181	C	202	D
14	A	35	C	56	B	77	B	98	C	119	D	140	D	161	B	182	C	203	E
15	D	36	B	57	D	78	C	99	A	120	A	141	A	162	B	183	E	204	B
16	B	37	C	58	A	79	A	100	A	121	D	142	C	163	D	184	B	205	D
17	D	38	E	59	E	80	D	101	B	122	E	143	A	164	A	185	A	206	E
18	E	39	D	60	B	81	B	102	D	123	C	144	B	165	C	186	D	207	A
19	A	40	A	61	E	82	D	103	C	124	A	145	A	166	D	187	C	208	B
20	B	41	A	62	B	83	A	104	E	125	A	146	B	167	B	188	E		
21	C	42	B	63	E	84	E	105	B	126	C	147	A	168	D	189	A		