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Number Series

1, 1, 2, 6, 24, ?, 720

A.   100
B.   104
C.   108
D.   120

Answer: D

The given series is the pattern x1, x2, x3, x4, ...
so, the missing term = 24 x 5 = 120

6, 13, 28, 59, ?

A. 111
B. 113
C. 114
D. 122

Answer: D

the given series is in the pattern x 2 + 1, x 2 + 2, x 2 + 3,............
So, the missing term = 59 x 2 +4 = 122

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3, 15, ?, 63, 99, 143

A. 27
B. 35
C. 45
D. 56

Answer: B

The given series is in the pattern $(2^2 - 1)$, $(4^2 - 1)$,............ $(8^2 - 1)$, $(10^2 - 1)$, $(12^2 - 1)$. So, the missing term is $(6^2 - 1) = 35$

5760, 960, ?, 48, 16, 8

A. 120
B. 160
C. 192
D. 240

Answer: C

The given series is in pattern ÷ 6, ÷ 5, ÷ 4, ÷ 3, ÷ 2. So the missing term is 960 ÷ 5 = 192

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20, 24, 33, 49, 74, 110, ?

A. 133
B. 147
C. 159
D. 163

Answer: C

The series is : $2^2, + 3^2, + 4^2, + 5^2, + 6^2, ...$

6, 11, 21, 36, 56, (....)

   A.   32
   B.   51
   C.   81
   D.   91

Answer: C

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The pattern is +5, +10, +15, +20, ...
Missing number = 56 + 25 = 81.

1, 9, 17, 33, 49, 73, (....)

   A.   97
   B.   98
   C.   99
   D.   100

Answer: A

The pattern is +8, +8, +16, +16, +24, ...
Missing number = 73 + 24 = 97.

3, 7, 15, 31, 63, (....)

A. 92
B. 115
C. 127
D. 131

Answer: C

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Each number in the series is the preceding number multiplied by 2 and then increased by 1.

Thus, (3 * 2) + 1 = 7, (7 * 2) + 1 = 15, (15 * 2) + 1 = 31, and so on.

Missing number = (63 * 2) + 1 = 127.

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1, 6, 15, (....), 45, 66, 91

   A.   25
   B.   26
   C.   27
   D.   28

Answer: D

The pattern is +5, +9, ..., +21, +25.

Missing number = 15 + 13 = 28.

121, 225, 361, (....)

A. 441
B. 481
C. 529
D. 729

Answer: C

The numbers are 11^2, 15^2, 19^2, ... i.e., 11^2, $(11 + 4 * 1)^2$, $(11 + 4 * 2)^2$, ...

Missing number = $(11 + 4 * 3)^2 = (23)^2 = 529$.

0, 2, 8, 14, (....), 34

   A. 22
   B. 24
   C. 20
   D. 18

Answer: A

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The numbers are $1^2 - 1$, $2^2 - 2$, $3^2 - 1$, $4^2 - 2$, ... Missing number $= 5^2 - 1 = 24$.

19, 2, 38, 3, 114, 4, (....)

A. 228
B. 256
C. 352
D. 456

Answer: D

The sequence is a combination of two series:

I. 19, 38, 114, (....)   II. 2, 3, 4

The pattern followed in I is *2, *3, ...

Missing number = 114 * 4 = 456.

4, 5, 9, 18, 34, (....)

A. 43
B. 49
C. 53
D. 59

Answer: D

The pattern is +1, +4, +9, +16 ... i.e., $+1^2$, $+2^2$, $+3^2$, $+4^2$, ... Missing number = $34 + 5^2 = 34 + 25 = 59$.

Look at this series: 21, 9, 21, 11, 21, 13, 21, ... What number should come next?

A. 14
B. 15
C. 21
D. 23

Answer: B

In this alternating repetition series, the random number 21 is interpolated every other number into an otherwise simple addition series that increases by 2, beginning with the number 9.

In the following number series only one is wrong. Find out the wrong number.

7, 4, 5, 9, 20, 51, 106.5

   A. 4
   B. 5
   C. 9
   D. 51

Answer: D

The series is x 0.5 + 0.5, x 1 + 1, x 1.5 + 1.5. x 2 + 2, x 2.5 + 2.5, x 3 +3

THANK YOU