Quiz Date: 2nd September 2020

Directions (1-15): Find the value of (?) in the given number series.

Q1. 2, 4, 12, 48, 240, ?
(a) 960
(b) 1440
(c) 1080
(d) 1920
(e) 1640

Q2. 7, 26, 63, 124, 215, 342, ?
(a) 481
(b) 511
(c) 391
(d) 421
(e) 728

Q3. 8, 24, 12, 36, 18, 54, ?
(a) 27
(b) 108
(c) 68
(d) 72
(e) 162

Q4. 15, 31, 63, 127, 255, ?
(a) 513
(b) 511
(c) 517
(d) 523
(e) 515

Q5. 11, 13, 17, 19, 23, 29, 31, 37, 41, ?
(a) 42
(b) 47
(c) 53
(d) 51
(e) 43

Q6. 12, 15, 36, ? , 480 , 2415 , 14508
(a) 115
(b) 109
(c) 117
(d) 121
(e) 153

Q7. 14 , 15, 23, 32, 96, ?,
(a) 121
(b) 124
(c) 152
(d) 111
(e) 108

Q8. 19, 25, 45, 87, 159, (?)
(a) 254
(b) 279
(c) 284
(d) 269
(e) 248

Q9. 15, 21, 39, 77, 143, (?)
(a) 243
(b) 240
(c) 253
(d) 245
(e) 254

Q10. 6, 42, ?, 1260 , 5040 , 15120 , 30240
(a) 546
(b) 424
(c) 252
(d) 328
(e) 228

Q11. 3.6, 10, 22.8, 48.4, ? , 202
(a) 97.6
(b) 99.6
(c) 95.6
(d) 101.6
(e) 93.6

Q12. 64, 34, 38, 63, 134, ?

(a) 345
(b) 348
(c) 236
(d) 472
(e) 264

Q13. 131, 148, 168, 197, 253, ?
(a) 354
(b) 355
(c) 390
(d) 352
(e) 348

Q14. 5, 11, 35, 143, ?, 4319
(a) 849
(b) 755
(c) 857
(d) 719
(e) 969

Q15. 2.5, 2.5, 10, 90, ?, 36000
(a) 810
(b) 1440
(c) 2250
(d) 720
(e) 3240

Solutions

S1. Ans.(b)
Sol. Go on multiplying the given numbers by 2, 3, 4, 5, 6. So, the correct next number is 1440.

S2. Ans.(b)
Sol. Number are $(2^3 - 1)$, $(3^3 - 1)$, $(4^3 - 1)$, $(5^3 - 1)$, $(6^3 - 1)$, $(7^3 - 1)$ etc.
So, the next number is $(8^3 - 1) = (512 - 1) = 511$.

S3. Ans.(a)
Sol. Numbers are alternately multiplied by 3 and divided by 2.
So, the next number = $54 \div 2 = 27$.

S4. Ans.(b)
Sol. Each number is double the preceding one plus.
So, the next number is $(255 \times 2) + 1 = 511$.

S5. Ans.(e)
Sol. Numbers are all primes. The next prime is 43.

S6. Ans.(c)
Sol.
Pattern is $\times 1+3, \times 2+6, \times 3+9, \ldots\ldots$
$\therefore ? = 36 \times 3 + 9 = 117$

S7. Ans.(a)
Sol.
Pattern is $+1^2, +2^3, +3^2, +4^3, +5^2, +6^3, \ldots\ldots$
$\therefore = 96 + 25 = 121$

S8. Ans.(d)
Sol.
Pattern is $+3^2-3, +5^2-5, +7^2-7, +9^2-9, \ldots\ldots$
$\therefore ? = 159 + 110 = 269$

S9. Ans.(d)
Sol.
Pattern is $+2^2+2, +4^2+2, +6^2+2, +8^2+2, \ldots.$
$\therefore ? = 143 + 10^2 + 2 = 245$

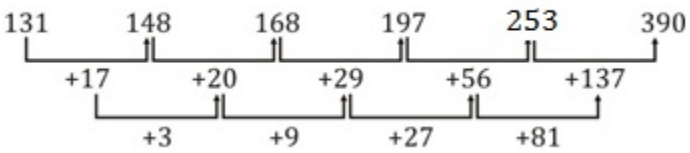
S10. Ans.(c)
Sol.
Pattern is $\times 7, \times 6, \times 5, \times 4, \ldots\ldots$
$\therefore ? = 42 \times 6 = 252$

S11. Ans.(b)
Sol.

The pattern is
3.6 + 6.4 = 10
10 + 12.8 = 22.8
22.8 + 25.6 = 48.4
48.4 + 51.2 = 99.6
99. 6 + 102.4 = 202

S12. Ans.(a)
Sol.
64×0.5+2=34
34×1 +4=38
38×1.5+6= 63
63×2 +8=134
134×2.5+10=345

S13. Ans.(c)
Sol.
Series is



S14. Ans.(d)
Sol.
5 × 2 + 1 = 11
11 × 3 + 2 = 35
35 × 4 + 3 = 143
143 × 5 + 4 = 719
719 × 6 + 5 = 4319

S15. Ans.(b)
Sol.
2.5 × 1 = 2.5
2.5 × 4 = 10
10 × 9 = 90
90 × 16 = 1440
1440 × 25 = 36000