Directions (1 – 5): In the following number series one of the numbers is wrong. Find out the wrong one, put it in place of (A) and form a new series based on the same pattern as given in question and find the number that should come in place of (E).

Q1. 2 10 27 113 561 3369 23581
A B C D E F
(a) 1265
(b) 1485
(c) 1521
(d) 1665
(e) 2865

Q2. 2 1.5 2.5 9 32 264 4240
A B C D E F
(a) 40
(b) 364
(c) 486
(d) 284
(e) 60

Q3. 2 3 12 38 102 227 443
A B C D E F
(a) 120
(b) 254
(c) 468
(d) 112
(e) 156

Q4. 3 8 14 48 200 1010 6072
A B C D E F
(a) 320
(b) 380
(c) 420
(d) 285
(e) 980

Q5. 128 64 72 96 192 480 1440
A B C D E F
(a) 96
(b) 108
(c) 182
(d) 156
(e) 208

Directions (6 – 10): In the following number series one of the numbers is wrong. Find out the wrong one, put it in place of (A) and form a new series based on the same pattern as given in question and find the number that should come in place of (E).

Q6. 1 2 6 26 158 1101 8802
A B C D E F
(a) 23
(b) 159
(c) 1265
(d) 9158
(e) 5243

Q7. 1728 1729 1737 1764 1810 1835 2051
A B C D E F
(a) 1813
(b) 1846
(c) 1919
(d) 2132
(e) 2218

Q8. 128 65 67 140 560 4496
A B C D E F
(a) 608
(b) 68
(c) 4525
(d) 4927
(e) 72425

Q9. 7 16 57 228 1160 6990 48972
A B C D E F
(a) 3425
(b) 2152
(c) 4526
(d) 6520
(e) 7160

Q10. 1331 1333 1336 1341 1347 1359 1372
A B C D E F
(a) 1382
(b) 1397
(c) 1364
(d) 1368
(e) 1383

Directions (11 – 15): In the following number series one of the numbers is wrong. Find out the wrong one, put it in place of (A) and form a new series based on the same pattern as given in question and find the number that should come in place of (E).

Q11. 1231, 1374, 1554, 1824, 2147, 2546
(A) , (B) , (C) , (D) , (E)
(a) 2430
(b) 2280
(c) 2670
(d) 2470
(e) 2350

Q12. 5539, 5536, 5528, 5506, 5314, 2242
(A) , (B) , (C) , (D) , (E)
(a) 4238
(b) 5303
(c) 6529
(d) 2341
(e) 2639

Q13. 1240, 1492, 1756, 2032, 2328, 2620
(A) , (B) , (C) , (D) , (E)
(a) 8340
(b) 2538
(c) 5204
(d) 2650
(e) 3408

Q14. 3760, 3763, 3749, 3777, 3721, 3833
(A) , (B) , (C) , (D) , (E)
(a) 3725
(b) 3526
(c) 3628
(d) 3927
(e) 4272

Q15. 1256, 1258, 1260, 1278, 1326, 1426
(A) , (B) , (C) , (D) , (E)
(a) 1762
(b) 1544
(c) 1328
(d) 1620
(e) 1840

Solutions

S1. Ans. (c)
Sol.
The given pattern is
$\times 2 + 7 \quad \times 3 - 6 \quad \times 4 + 5 \quad \times 5 - 4 \quad \times 6 + 3 \quad \times 7 - 2$
So, wrong number =10
New series will be
$10\times 2 + 7 = 27$
$27\times 3 - 6 = 75$
$75\times 4 + 5 = 305$
$305\times 5 - 4 = 1521$
So, E= **1521**

S2. Ans. (e)
Sol.
The given pattern is
$\times 0.5 + 0.5, \quad \times 1 + 1, \quad \times 2 + 2, \quad \times 4 + 4, \quad \times 8 + 8, \quad \times 16 + 16$
So, wrong number = 9
So, new series will be
$9 \times 0.5 + 0.5 = 5$
$5 \times 1 + 1 = 6$
$6 \times 2 + 2 = 14$
$14 \times 4 + 4 = 60$
So, E= 60

S3. Ans. (d)
Sol.
The given pattern is
$+1^3 \ , +2^3 \ , +3^3 \ , +4^3 \ , +5^3 \ , +6^3$
So, wrong number is 12
New series will be
12+1=13
13+8=21
21+27=48
48+64=112
So, E = 112

S4. Ans. (a)
Sol.
The given pattern is
$\times 1 + 2 \quad \times 2 + 4 \quad \times 3 + 6 \quad \times 4 + 8 \quad \times 5 + 10 \quad \times 6 + 12$
So, wrong number =8
The new series will be
$8\times 1 + 2 = 10$
$10\times 2 + 4 = 24$

$24\times 3+6=78$
$78\times 4+8=320$
So, E=320

S5. Ans. (b)
Sol.
The given pattern is
$\times\frac{1}{2}\quad\times 1\quad\times\frac{3}{2}\quad\times 2\quad\times\frac{5}{2}\quad\times 3$
So, wrong number = 72
$72\times\frac{1}{2}=36$
$36\times 1=36$
$36\times\frac{3}{2}=54$
$54\times 2=108$
So, E = 108

S6. Ans.(d)
Sol.
The pattern of the given series is
$\times 3-1,\quad\times 4-2,\quad\times 5-3,\quad\times 6-4$ …….
Wrong number =26
As per the above pattern
$26\times 3-1=77$
$77\times 4-2=306$
$306\times 5-3=1527$
$1527\times 6-4=9158$

So, E=**9158.**

S7. Ans. (b)
Sol.
The pattern of the given series is
$+1^2,\ +2^3,\ +3^2,\ +4^3,\ +5^2$……
Wrong number = 1764
As per the above pattern,
$1764+(1)^2=1765$
$1765+(2)^3=1773$
$1773+(3)^2=1782$
$1782+(4)^3=1846$

So, E=1846

S8. Ans. (a)
Sol.
The pattern of the given series is

$\times \frac{1}{2} + 1, \quad \times 1 + 2, \quad \times 2 + 4, \quad \times 4 + 8$ .....
Wrong number = 140
As per the above pattern,
$140 \times 0.5 + 1 = 71$
$71 \times 1 + 2 = 73$
$73 \times 2 + 4 = 150$
$150 \times 4 + 8 = 608$

So, E=608

S9. Ans. (e)
Sol.
The pattern of the given series is
$+1 \times 2, \quad + 2 \times 3, \quad + 3 \times 4, \quad + 4 \times 5, \quad + 5 \times 6$ ……..
Wrong number = 57
As per the above pattern,
$(57+1) \times 2 = 116$
$(116+2) \times 3 = 354$
$(354+3) \times 4 = 1428$
$(1428+4) \times 5 = 7160$

So, E= 7160

S10. Ans. (c)
Sol.
The pattern of the given series is
Prime number
+2, +3, +5, +7, +11, +13, +17
Wrong number =1347
As per the above pattern,
1347 + 2 =1349
1349 + 3 =1352
1352 + 5 =1357
1357 + 7 =1364

So, E=1364

S11. Ans (d)
Sol. The pattern is
$1231 + 11 \times 13 = 1374$
$1374 + 13 \times 15 = 1569 \; not \; 1554$
$1569 + 15 \times 17 = 1824$
$1824 + 17 \times 19 = 2147$

$2147 + 19 \times 21 = 2546$
So, (E) $= 1554 + 11 \times 13 + 13 \times 15 + 15 \times 17 + 17 \times 19 =$
$= 2470$

S12. Ans.(b)
Sol. **The given pattern is –**

5539 , 5536 , 5530 , 5506 , 5314 , 2242

−3×1	−3×2	−6×4	−24×8	−192×16
(−3)	(−6)	(−24)	(−192)	(−3072)

5536 – 6 = 5530, not 5528.
So, (E) = 5528 – 3 – 6 – 24 – 192 = 5303.

S13. Ans.(e)
Sol. **The given pattern is –**

1240 , 1492 , 1756 , 2032 , 2320 , 2620

+252	+264	+276	+288	+300

2032 + 288 = 2320, not 2328
So, (E) = 2328 + 252 + 264 + 276 + 288 = 3408.

S14. Ans.(a)
Sol. **The given pattern is –**

3756 3763 3749 3777 3721 , 3833

+7	−14	+28	−56	+112

3763 – 7 = 3756, not 3760
So, (E) = 3760 + 7 – 14 + 28 – 56 = 3725

S15. Ans.(c)
Sol. **The given pattern is –**

1256 , 1256 , 1260 , 1278 , 1326 , 1426

1^3-1^2	2^3-2^2	3^3-3^2	4^3-4^2	5^3-5^2

$1256 – (1^3 – 1^2) = 1256$, not 1258
So, (E) = 1258 + 0 + 4 + 18 + 48 = 1328