Number Series short

Tricks Questions 6



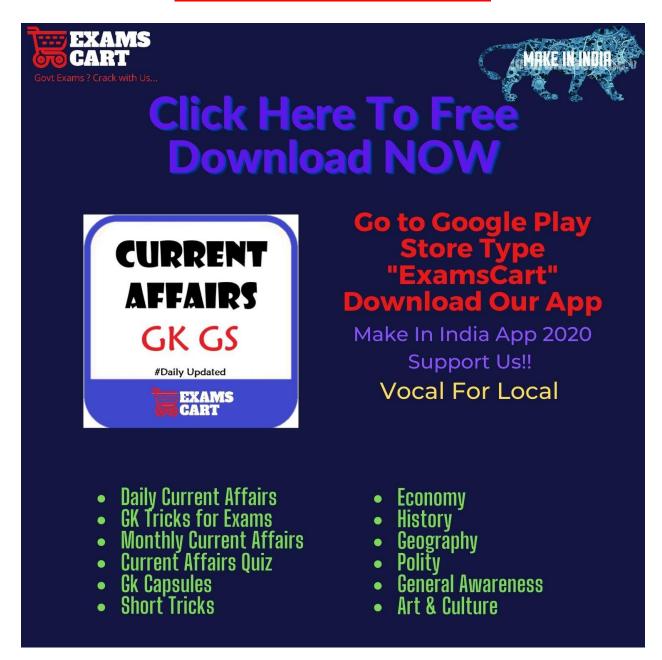
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Number series short Tricks & Questions with solutions

Questions on number series are prevalent in most of the exams. Almost 4-5 Questions comes in exam from this topic. These questions are based on numerical sequences that follow a logical rule/ pattern based on elementary arithmetic concepts. A particular series is given from which the pattern must be analyzed. You are then asked to predict the next number in the sequence following the same rule.

Number series is a arrangement of numbers in a certain order, where some numbers are wrongly put into the series of numbers and some number is missing in that series, we need to observe and find the accurate number to the series of numbers.

Tips For Number Series

- 1) Try to observe if there are any familiar numbers in the given series.
- 2) Familiar numbers are the numbers which which are easy to identify like primes numbers, perfect squares, cubes.
- 3) If you are unable to find familiar number, Calculate the differences between the numbers and observe the pattern in the differences.
- 4) If the differences are growing slowly it might be an addition or subtraction series or If the differences are growing rapidly it might be a square series, cube series, or multiplicative series.
- 5) If the differences also are not having any pattern then observe every alternate number (ie every 3rd number form a series) for any pattern.
- 6) The possible cases may be like sum or the average of two consecutive numbers gives 3rd number.
- 7) If still you do not find any pattern, it signifies that the series follows a complex pattern. Check for cases like multiplying the number and adding/subtracting a constant number from it to reach the pattern.

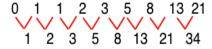
Below are the common pattern of questions usually asked in numbers series:

I. Fibonnaci Series

The Fibonnaci sequence is a series of numbers where a no. is found by adding up the nos. before it. Let us understand the series with the help of an example:

Example 1:

0,1,1,2,3,5,8,13,21,___.



Example 2:

20, 12, 32, 44, 76, 120,____.

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II. Addition series

There can be 2 types of pattern in addition series.

(A) Same number Addition series

In this type of series, the difference between 2 consecutive elements is same i.e. same digit is to be added to the previous element to obtain the next element.

Example 3:

Sol. In the given series, the difference between the two consecutive elements is same i.e 3. *In this type of series, the number added to each term is in increasing order.*

(B) Increasing order Addition series

In the given series, the difference between 2 consecutive numbers is in increasing order.

Example 4:

Sol. In the given series, the difference between 2 consecutive numbers is in increasing order i.e. *3,4,5,6,7 and 8 respectively.*

$$2 \xrightarrow{5} \xrightarrow{9} \xrightarrow{14} \xrightarrow{20} \xrightarrow{27} \xrightarrow{35}$$

III. Subtraction series

(A) Same Number Subtraction Series

In this type of series, each time the same number is subtracted from the previous element to obtain the next element.

Example 5:

Sol. Here the difference between 2 consecutive nos. is 3.



(B) Increasing order Subtraction Series

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Example 6:

94, 90, 85, 79, 72, 64,___.

Sol. Here the difference between 2 consecutive elements is in increasing order.

$$94 \longrightarrow 90 \longrightarrow 85 \longrightarrow 79 \longrightarrow 72 \longrightarrow 64 \longrightarrow 55$$

$$-4 \longrightarrow -5 \longrightarrow -6 \longrightarrow -7 \longrightarrow -8 \longrightarrow -9$$

IV. Multiplication Series

(A) Same number multiplication Series

In this series, the ratio between 2 consecutive elements is same.

Example 7:

4, 12, 36, 108, 324,____.

In the given series, previous element is multiplied by 3 to obtain the next element and therefore the ratio between 2 consecutive elements is same.

$$\underbrace{4}_{x3} \underbrace{12}_{x3} \underbrace{36}_{x3} \underbrace{108}_{x3} \underbrace{324}_{x3} \underbrace{972}_{x3}$$

(B) Increasing order of Multiplication Series

In this type of series, elements are multiplied in increasing order to find the next element.

Example 8:

5, 5, 7.5, 15,___.

In the given series, the ratio between 2 consecutive elements is in increasing order and elements are multiplied by the numbers in increasing order.

$$\underbrace{5}_{x1} \underbrace{5}_{x15} \underbrace{7.5}_{x2} \underbrace{15}_{x25} \underbrace{37.5}_{x25}$$

V. Division series

(A) Same number division series

In this type, each time the previous element is divided by same digit to obtain the next element.

Example 9:

*1600, 400, 100, 25,*___.

Sol. In the given series, previous element is divided by 4 to get the next element.

1600/4 = 400

400/4 = 100

100/4 = 25

25/4 = 6.25

Therefore, the correct answer = 6.25

(B) Increasing/Decreasing order division series

Example 10:

46080, 3840, 384, 48, 8, 2,____.

Sol. In the given series, elements are divided by 12, 10, 8, 6 and 4 respectively to obtain the next elements.

VI. Addition & Multiplication together

Example 11:

1, 3, 7, 15, 31,____.

Sol. In such a series, addition and multiplication is used together.

Example 12:

5, 6, 14, 45, 184,____.

Sol. In this series, the previous elements are multiplied respectively by numbers in increasing order & numbers in increasing order respectively added in such multiplication to obtain the next element.

VII. Decimal Fraction

Example 13:

36, *18*, *18*, *27*, *54*,___.

Sol. In this series, following pattern is used:

$$36 \xrightarrow{18} 18 \xrightarrow{18} 27 \xrightarrow{54} 138$$

$$\xrightarrow{x_{0.5}} x_{1} \xrightarrow{x_{1.5}} x_{2} \xrightarrow{x_{2.5}} 54$$

VIII. Difference of difference series

Calculate the differences between the numbers given in the series provided in the question. Then try to observe the pattern in the new set of numbers that you have obtained after taking out the difference.

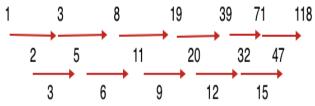
Example 14:

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1, 3, 8, 19, 39, 71,____.

Sol. The following pattern is observed in the given series



IX. Twin series

In this type of series, odd place element males one series while the even place elements make another series.

Example 15:

3, 6, 6, 12, 9, 18,____

Sol. In this series, following pattern is used:

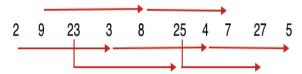


X. Tri-series

Example 16:

2, 9, 23, 3, 8, 25, 4,____

Sol. Following pattern is used in the given series



XI. Square series & Cube series

Example 17:

4, 9, 16, 25, 36, 49,____.

Sol. In the given series, the following pattern is used

 2^2 , 3^2 , 4^2 , 5^2 , 6^2 , 7^2 , 8^2

Example 18:

Sol. In the given series, the following pattern is used

 1^3 , 2^3 , 3^3 , 4^3 , 5^3 , 6^3

XII. Square & Cube addition

Example 19:

2, 3, 7, 16,____

Sol. In the given series, the following pattern is used

$$2 \xrightarrow{+1^{2}} 3 \xrightarrow{+2^{2}} 7 \xrightarrow{+3^{2}} 16 \xrightarrow{+4^{2}} 32$$

Example 20:

1, 2, 10, 37,____.

Sol. In the given series, the following pattern is used

$$1 \longrightarrow 2 \longrightarrow 10 \longrightarrow 37 \longrightarrow 101$$

$$+1^3 \longrightarrow +2^3 \longrightarrow +3^3 \longrightarrow +4^3$$

XIII. Digital Operation of Numbers

In this type of series, the digits of each number are operated in a certain way to obtain the next element of the series.

Example 21:

94, 36, 18,____.

Sol. In the given series, the following pattern is used

Correct answer - 8



- Prime Series: IN which the terms are the prime numbers in Order
 - Ex: 2, 3, 5, 7, 11, 13, _, 19
 - Here the terms of the series are the prime numbers in order. The prime number after 13 is 17. So the answer to this question is 17.
- Alternate Primes :
 - Ex: 2, 5, 11, 17, 23, _, 41
 - Here the series is framed by taking the alternative prime numbers. After 23, the prime numbers are 29 and 31. So the answer is 31.
- Every Third number can be the sum of the preceding two numbers:
 - Ex: 3, 5, 8, 13, 21
 - Here starting from third number
 - *3* + *5* = *8*
 - 5 + 8 = *13*
 - 8 + 13 = 21
 - *So, the answer is* 13 + 21 = 34
- Every Third number can be the product of the preceeding two numbers
 - Ex: 1, 2, 2, 4, 8, 32. _
 - Here starting from the third number
 - 1 X 2 = 2
 - 2 X 2 = 4

- 2X4 = 8
- 4X8 = 32
 - *So, the answer is* $8 \times 32 = 256$
- The difference of any term from its succeding term is constant (either increasing series or decreasing series :
 - Ex: 4, 7, 10, 13, 16, 19, _, 25
 - Here the difference of any term from its succeding term is 3.
 - 7 4 = 3
 - *10 7 = 3*
 - *So, the answer is* 19 + 3 = 22
- The difference between two consecutive terms will be either increasing or decreasing by a constant number:
 - $Ex: 2, 10, 26, 50, 82, _$
 - Here, The difference between two consecutive terms are
 - *10 2 = 8*
 - 26 10 = 16
 - 50 26 = 24
 - 82 50 = 32
 - Here, the difference is increased by 8 (or you can say the multiples of 8). So the next difference will be 40 (32 + 8). So, the answer is 82 + 40 = 122
 - Ex: 63, 48, 35, 24, 15, _
 - Here, the difference between the two terms are
 - 63 48 = 15
 - 48 35 = 13
 - 35 24 = 11
 - 24 15 = 9
 - Here, the difference is decreased by 2. So, the next difference will be 7. So, the answer is 15 7 = 8.
- The difference between two numbers can be multiplied by a constant number:
 - Ex: 15, 16, 19, 28, 55, _
 - *Here, the differences between two numbers are*
 - 16 15 = 1
 - 19 16 = 3
 - 28 19 = 9
 - 55 28 = 27
 - Here, the difference is multiplied by 3. So, the next difference will be 81. So, the answer is 55 + 81 = 136
- The difference can be multiplied by numbers which will be increasing by a constant number:
 - Ex: 2, 3, 5, 11, 35, _
 - The difference between two numbers are
 - 3 2 = 1
 - 5 3 = 2
 - 11 5 = 6
 - 35 11 = 24

- Here, the differences are multiplied by numbers which are in increasing order.
- Differences are
 - 1
 - $1 \times 2 = 2$
 - $2 \times 3 = 6$
 - $6 \times 4 = 24$
 - So, the next difference will be $24 \times 5 = 120$. So, the answer is 35 + 120 = 155.
- Every succeeding term is got by multiplying the previous term by a constant number or numbers which follow a special pattern.
 - Ex: 5, 15, 45, 135, _
 - *Here,* $5 \times 3 = 15$
 - $15 \times 3 = 45$
 - $45 \times 3 = 135$
 - *So, the answer is* $135 \times 3 = 405$.
 - Ex: 2, 10, 40, 120, 240, _
 - *Here*, $2 \times 5 = 10$
 - $10 \times 4 = 40$
 - $40 \times 3 = 120$
 - $120 \times 2 = 240$
 - *So, the answer is* $240 \times 1 = 240$
- In certain series the terms are formed by various rule (miscellaneous rules). By keen observation you have to find out the rule and the appropriate answer.
 - Ex : 4, 11, 31, 90, _
 - Terms are,
 - $4 \times 3 1 = 11$
 - $11 \times 3 2 = 31$
 - $31 \times 3 3 = 90$
 - So, the answer will be $90 \times 3 4 = 266$
 - Ex: 3, 5, 14, 55, _
 - Terms are,
 - $3 \times 2 1 = 5$
 - $5 \times 3 1 = 14$
 - $14 \times 4 1 = 55$
 - *So, the answer will be* $55 \times 5 1 = 274$
 - Ex: 3, 7, 23, 95, _
 - Terms are,
 - $3 \times 2 + 1 = 7$
 - 7x3 + 2 = 23
 - $23 \times 4 + 3 = 95$
 - *So, the answer will be* $95 \times 5 + 4 = 479$
 - Ex: 6, 17, 38, 79, _
 - Terms are,
 - $6 \times 2 + 5 = 17$
 - $17 \times 2 + 4 = 38$

- $38 \times 2 + 3 = 79$
 - So, the answer is $79 \times 2 + 2 = 160$

Number Series Questions

- **1.** 16, 8.5, 9.5, 21, 88, ?
- (A) 512 (B) 624
- (C) 712 (D) 848
- (E) 976
- **2.** 28, 32, 23, 39, 14, 50, ?
- (B) 5 (A) 1
- (C) 14(D) 24
- (E) 62



- **3.** 4, 9, 17, ?, 69, 139, 277
- (A) 28(B) 35
- (C) 42(D) 51
- (E) None of these
- **4.** 5, 6, 16, ?, 244, 1245 Exams? Crack with Us...
- (A) 28- (B) 55
- (D) 61(C) 57
- (E) None of these
- **5.** 3, 14, 39, ?, 155, 258
- (A) 84
- (B) 88
- (C) 92
- (D) 96
- (E) 104
- **6**. 8, 9, 15, 32, ?, 250.5
- (A) 61(B) 65.5
- (C) 82.5 (D) 87
- (E) 99
 - 7. 4, 6, 16, 56, 240, ?
- (A) 680
- (B) 840
- (C) 960
- (D) 1020

- (E) 1232
- **8**. 1, 2, 10, 37, ?, 226.
- (A) 75
- (B) 84
- (C) 95
- (D) 101
- (E) 111
- **9**. 5, 11, 20, 43, 82,?
- (A) 135
- (B) 147
- (C) 155
- (D) 169
- (E) 234
- **10**. 4, 5, 8, 28, 104, ?
- (A) 425
 - (B) 484
- (C) 504
- (D) 522
- (E) 536
 - *11*. 2, 4, 10, 22, 42, 72, ?
- (A) 102
- (B) 106
- (C) 114
- (D) 124
- (E) 132
- D) 124
- **12**. 4, 2, 2, 4, 16, ?
- $(A) 64 \qquad (B) 72$
- (C) 96 (D) 128
- (E) 156
- **13**. 15, 15, 30, 10, 40, ?, 48
- (A) 8
- (B) 20
- (C) 24
- (D) 40
- (E) 60
- **14**. 2, 3, 8, 27, 112, ?
- (A) 156
- (B) 224
- (C) 375
- (D) 480
- (E) 565
- **15**. 5, 6, 10, 33, 128, ?
- (A) 375
- (B) 445
- (C) 565
- (D) 645

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(E) 675

16. 27, 50, 192, 1140, 9104, ?

- (A) 90400 (B) 91020
- (C) 92040 (D) 94060
- (E) None of these

17. 4, 7, 13, 23, 38, 59, ?

- $(A) 72 \qquad (B) 80$
- (C) 87 (D) 95
- (E) None of these

18. 6, 11, 32, 111, 464, ?

- (A) 2345 (B) 2475
- $(C) 2525 \qquad (D) 3050$
- (E) None of these

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19. 2, 12, 36, 80, ?, 252, 392

- (A) 80 (B) 100
- (C) 120 (D) 150
- (E) None of these
- **20**. 2, 6, 33, 49, 174, 210, ?
- (A) 275 (B) 387
- (E) None of these

21. 6, 8, 14, 26, 46, 76, ?

- (A) 84
- (B) 96
- (C) 112
- (D) 118
- (E) 124

22. 4, 4, 6, 12, 30, ?, 315

- (A) 60
- (B) 75
- (C) 90
- (D) 115

(E) 120

23. 3, 4, 10, 33, ?, 645, 4116

- (A) 84
- (B) 112
- (C) 136
- (D) 156

- (E) 224
- **24**. 2, 3, 4, 15, 56, ?, 1704
- (A) 112
- (B) 156
- (C) 192
- (D) 234
- (E) 285
- **25**. 6, 7, 12, 26, 67.5, ?
- (A) 125 (B) 145.5
- (C) 175 (D) 205.5
- (E) 230
- **26**. 8, 10, 24, 78, 320, ?, 9672
- (A) 740
- (B) 960
- (C) 1240
- (D) 1440
- (E) 1610
- **27**. 2, 10, 37, 101, 226, ?
- (A) 324
- (B) 442
- (C) 526
- (D) 636
- (E) 784

17 30 70 143 2 CART

- 28. 3, 7, 17, 39, 79, 143, ?
- (A) 178
- (B) 237
- (C) 264
 - 4 (D) 301
- (E) 336

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- **29**. 4, 5, 8, 28, 104, ?
- (A) 208
- (B) 312
- (C) 424
- (D) 536
- (E) 576
- **30**. 12, 15, 25, 42, 66, 97, ?
- (A) 135
- (B) 144
- (C) 156
- (D) 167
- (E) 182
- **31**. 1, 3, 10, 38, 168, ?
- (A) 540
- (B) 654
- (C) 724
- (D) 872
- (E) None of these

- **32**. 1, 2, 10, 37, ?, 226
- (A) 75
- (B) 84
- (C) 95
- (D) 101
- (E) 111
- **33**. 4, 7, 13, 23, 38, 59, ?
- (A) 72
- (B) 80
- (C) 87
- (D) 95
- (E) None of these
- **34**. 5, 3, 4, 7.5, 17,?
- (A) 35
- (B) 42
- (C) 45
- (D) 50
- (E) 56
- **35**. 9, 11, 20, 31, 51, 82, (?)
- (A) 133
- (B) 142
- (C) 156
- (D) 164
- (E) None of these
- **36**. 5, 6, 10, 19, 35, 60, ?
- (A) 84
- (B) 96
- (C) 112 (D) 125
- (E) 144Govt Exams? Crack with Us...
- **37**. 24, 28, 19, 35, 10, ?
- (A) 45
- (B) 44
- (C) 46
- (D) 42
- (E) 47
- **38**. 2, 5, 9, 19, 37, ?
- (A) 72
- (B) 75
- (C) 80
- (D) 84
- (E) None of these
- **39**. 4, 9, 17,?, 69, 139, 277
- (A) 28
- (B) 35
- (C) 42
- (D) 51
- (E) None of these

40. 5, 6, 16, ?, 244, 1245

- (A) 34
- (B) 48
- (C) 57
- (D) 72
- (E) None of these

41. 2, 7, 15, 27, 44, 67, ?

- (A) 75
- (B) 84
- (C) 97
- (D) 108
- (E) 119

42. 2, 6, 11, 20, ?, 36, 56

- (A) 24
- (B) 26(C) 28(D) 30
- (E) None of these

43. 12, 25, 48, 99, 194, 393, ?

- (A) 715 (B) 730
- (C)750(D) 780
- (E) None of these

- 44. 7, 14, 25, 40, 59, 82, ?
- (A) 99
- (B) 109
- (C) 120 (D) 135
- (E) None of these

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45. 9, 15, 25, 41, 65, 99. ?

- (A) 125
- (B) 135
- (C) 145
- (D) 155
- (E) None of these

46. 2, 2, 3, 6, 15, 45, 157.5, ?

- (A) 250
- (B) 320
- (C) 450
- (D) 630

(E) None of these

47. 9, 5, 6, 10.5, 23, 60, ?

- (A) 132
- (B) 148
- (C) 164
- (D) 183

(E) None of these

48. 16, 20, 29, 45, 70, 106, ?

- (A) 155
- (B) 172
- (C) 184
- (D) 196
- (E) None of these

49. 7, 12, 29, 92, 373, ?

- (A) 1442
- (B) 1654
- (C) 1870
- (D) 1966
- (E) None of these

50. 4, 9, 20, 37, 60, 89, ?

- (A) 124 (B) 132
- (C) 144
- (D) 156
- (E) None of these

Solutions

1.Answer is option C

Explanation:

$$16 \times 0.5 + 0.5 = 4.5$$

$$8.5 \times 1 + 1 = 9.5$$

$$9.5 \times 2 + 2 = 21$$

$$21 \times 4 + 4 = 84$$

2.Answer is option A

$$28 + 2^2 = 28 + 4 = 32$$

$$32 - 3^2 = 32 - 9 = 23$$

$$23 + 4^2 = 23 + 16 = 39$$

$$39 - 5^2 = 39 - 25 = 14$$

$$14 + 6^2 = 14 + 36 = 50$$

$$50. \qquad -7^2 = 50 - 49 = 1$$

3. Answer is option B

Explanation:

4 $9 = 4 \times 2 + 1$ $17 = 9 \times 2 - 1$ $35 = 17 \times 2 + 1$ $69 = 35 \times 2 - 1$ $139 = 69 \times 2 + 1$ $277. \quad 139 \times 2 - 1$

4.Answer is option C

Explanation:

5 $5 \times 1 + 1^{2} = 5 + 1 = 6$ $6 \times 2 + 2^{2} = 12 + 4 = 16$ $16 \times 3 + 3^{2} = 48 + 9 = 57$ $57 \times 4 + 4^{2} = 228 + 16 = 244$ $244. \quad 5 + 5^{2} = 1245$



5.Answer is option A

Explanation:

$$\begin{array}{c}
 1 \\
 1 + 1^2 + 1^3 = 3 \\
 2 + 2^2 + 2^3 = 14
 \end{array}$$

$$3+3^2+3^3=39$$
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$$4+4^2+4^3=84$$

$$5+5^2+5^3=155$$

$$6+6^2+6^3=258$$

6.Answer is option C

Explanation:

$$8*1+1=9$$

$$9*1.5+1.5 = 15$$

$$15*2+2 = 32$$

$$82.5*3+3=250.5$$

7.Answer is option E

$$4*1+2=6$$

$$6*2+4 = 16$$

 $16*3+8 = 56$
 $56*4+16 = 240$
 $240*5+32 = 1232$

8. Answer is option D

Explanation:

$$1+13=2$$

$$2+23=10$$

$$10+33=37$$

$$37+43 = 101$$

$$101+53=226$$

9.Answer is option D

Explanation:

$$5*2+1 = 11$$

$$11*2-2 = 20$$

$$20*2+3=43$$

$$82*2+5 = 169$$

10.Answer is option E

Explanation:

$$4*1+1=5$$

$$5*2-2 = 8$$

11.Answer is option C

Explanation:

$$2+1^{2}+1=4$$

$$4+2^2+2=10$$

$$10+3^2+3=22$$

$$22+4^2+4=42$$

$$42+5^2+5=72$$

$$72+6^2+6=114$$

12.Answer is option D

$$4*.5 = 2$$

$$2*1 = 2$$

$$2*2 = 4$$
 $4*4 = 16$
 $16*8 = 128$

13. Answer is option A

Explanation:

15/1 = 15 15*2 = 30 30/3 = 10 10*4 = 4040/5 = 8

8*6 = 48

14.Answer is option D

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Explanation: 2*1+1=3

$$2*I+I = 3$$

 $3*2+2 = 8$

$$8*3+3=27$$

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15.Answer is option D

Explanation:

$$5*1+1=6$$

$$6*2-2 = 10$$

$$10*3+3=33$$

$$33*4-4 = 128$$

 $128*5+5 = 645$

16. Answer is option B

$$27*2-4 = 50$$

```
17. Answer is Option C

Explanation:
4, 7, 13, 23, 38, 59, ?

V V V V V

3 6 10 15 21 28

V V V V V

3 4 5 6 7

There should be 59+28 = 87
```

18.Answer is option A
Explanation:
6, 11, 32, 111, 464, ?
6*1+5 = 11
11*2+10 = 32
32*3+15 = 111
111*4+20 = 464
464*5+25 = 2345

19. Answer is option D Explanation:

2, 12, 36, 80, ?, 252, 392

$$1^2 + 1^3 = 2$$

$$2^2+2^3=12$$

$$3^2+3^3=36$$

$$4^2+4^3=80$$

$$5^2 + 5^3 = 150$$

$$6^2+6^3=252$$

$$7^2 + 7^3 = 392$$

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20. Answer is option D

Explanation:

$$1+1^3=2$$

$$2+2^2=6$$

$$6+3^3=33$$

$$33+4^2=49$$

$$49+5^3=174$$

$$174+6^2=210$$

$$210+7^3=553$$

21. Answer is Option D

Explanation:

6, 8, 14, 26, 46, 76, ? V V V V V 2 6 12 20 30 42 V V V V 4 6 8 10 12 There should be 76+42 = 118

22. Answer is option C Explanation:

4*1 = 4 4*1.5 = 6 6*2 = 12 12*2.5 = 30 30*3 = 9090*3.5 = 315

23.Answer is option C Explanation:

3*1+1 = 44*2+2 = 10

10*3+3 = 3333*4+4 = 136

136*5+5=685

685*6+6 = 4116

24.Answer is option E Explanation:

2*1+1=3

15*4-4 = 56

*56***5*+*5* = *285*

285*6-6 = 1704

25.Answer is option D Explanation:

6*1+1=7

7*1.5+1.5 = 12

*12*2+2 = 26*

26*2.5+2.5 = 67.5

67.5*3+3 = 205.5

26.Answer is option E Explanation:

```
8*1+2 = 10
10*2+4 = 24
24*3+6 = 78
78*4+8 = 320
320*5+10 = 1610
1610*6+12 = 9672
```

27.Answer is option B Explanation:

$$1+1^{3} = 2$$

$$2+2^{3} = 10$$

$$10+3^{3} = 37$$

$$37+4^{3} = 101$$

$$101+5^{3} = 226$$

$$226+6^{3} = 442$$

28. Answer is Option B

Explanation: 3, 7, 17, 39, 79, 143, ? V V V V V 4 10 22 40 64 94 V V V V 6 12 18 24 30 There should be 143+94 = 237

EXAMS CART

29. Answer is option D Explanation:

30. Answer is option A

104*5+16=536

Explanation:

There should be 97+38 = 135

31. Answer is option D
Explanation:
$$1*1+2=3$$

$$3*2+4 = 10$$

 $10*3+8 = 38$
 $38*4+16 = 168$
 $168*5+32 = 872$

32. Answer is option D Explanation:

 $1+1^{3} = 2$ $2+2^{3} = 10$ $10+3^{3} = 37$ $37+4^{3} = 101$ $101+5^{3} = 226$

33. Answer is option C Explanation:

4, 7, 13, 23, 38, 59,? V V V V V V 3 6 10 15 21 28 V V V V V 3 4 5 6 7

EXAMS CART

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There should be 59+28 = 87

34. Answer is option C

Explanation:

$$5 \times 0.5 + 0.5 = 3$$

$$3 \times 1 + 1 = 4$$

$$4 \times 1.5 + 1.5 = 7.5$$

$$7.5 \times 2 + 2 = 17$$
 $17 \times 2.5 + 2.5 = 45$

35. Answer is option A Explanation:

$$9+11 = 20$$

36. Answer is option B

$$5 + (1^2) = 5 + 1 = 6$$

$$6 + (2^2) = 6 + 4 = 10$$

$$10 + (3^2) = 10 + 9 = 19$$

$$19 + (4^2) = 19 + 16 = 35$$

$$35 + (5^2) = 35 + 25 = 60$$

$$60 + (6^2) = 60 + 36 = 96$$

37. Answer is option C

Explanation:

$$24 + 2^2 = 24 + 4 = 28$$

$$28 - 3^2 = 28 - 9 = 19$$

$$19 + 4^2 = 19 + 16 = 35$$

$$35 - 5^2 = 35 - 25 = 10$$

$$10 + 6^2 = 10 + 36 = 46$$

38. Answer is option B

Explanation

The pattern is: every number is arrived at

previous number multiplied by 2 and then alternate addition and subtraction by 1 i.e.

$$5=2\times 2+1$$

$$9=5\times 2-1$$

$$37 = 19 \times 2 - 1$$

the next term $37 \times 2 + 1 = 75$

39. Answer is option B

Explanation:

$$9 = 4 \times 2 + 1$$

$$17 = 9 \times 2 - 1$$

$$35 = 17 \times 2 + 1$$

$$69 = 35 \times 2 - 1$$

$$139 = 69 \times 2 + 1$$

$$277 = 139 \times 2 - 1$$

40. Answer is option C

$$5 \times 1 + 12 = 5 + 1 = 6$$

$$6 \times 2 + 22 = 12 + 4 = 16$$

 $16 \times 3 + 32 = 48 + 9 = 57$
 $57 \times 4 + 42 = 228 + 16 = 244$
 $244 \times 5 + 52 = 1245$

Q41. Answer is option C

Explanation:

There should be 67+30 = 97

Q42. Answer is option D

Explanation: 2, 6, 12, 20, ?, 36, 56

$$1+1^2=2$$

$$2+2^2=6$$

$$3+3^2=12$$

$$4+4^2=20$$

5+52 Govt Exams? Crack with Us...

$$6+6^2=36$$

$$7+7^2=56$$

Q43. Answer is option D

Explanation:

$$12*2+1 = 25$$

$$25*2-2 = 48$$

$$48*2+3 = 99$$

 $99*2-4 = 194$

Q44.Answer is option B

Explanation:

There should be 82+27 = 109

Q45.Answer is option C

Explanation:

IXAMS

There should be 99+46 = 145

Q46. Answer is option D Explanation:

$$2*1.5 = 3$$

$$3*2 = 6$$

Q47.Answer is option D Explanation:

$$9*.5+.5 = 5$$

$$5*1+1=6$$

$$6*1.5+1.5 = 10.5$$

$$10.5*2+2 = 23$$

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$$23*2.5+2.5 = 60$$

 $60*3+3 = 183$

Q48. Answer is option A

Explanation:

Squares of consecutive numbers, the next term should be 106+49 = 155

Q49. Answer is option C Explanation:

$$7*1+5 = 12$$
 $12*2+5 = 29$
 $29*3+5 = 92$
 $93*4+5 = 373$

Q50. Answer is option A EXAMS? Crack With US...

Explanation:

373*5+5=1870

There should be 89+35 = 124

Number Series Questions

- 1. 4,3,5,24,55,?
- 2. 16,13.9,18.1,11.8,?
- 3. 2160,?,72,18,6,3
- 4. 6,3,3,4.5,9,?
- 5. 24,?,44,80,144,244
- 6. 1440,?,48,12,4,2
- 7. 22,19.7,24.3,17.4,?,15.1
- 8. 5, 4, 7, 20, 79, ?
- 9. 32, ?, 52, 88, 152, 252
- 10. 21, 37, 40.2, 88.2, 94.6, ?
- 11. 142, 70, 34, 16, ?, 2.5
- 12. 17, 9, 10, 16.5, 35, ?
- 13. 89, 86, 78, 63, 41, ?
- 14. 1, 3, 4, 8, 15, 27, ?
- 15. 5760, ?, 1440, 160, 10, 0.4
- 16. 8, 5, 6, 10, 21, ?
- 17. 339, ?, 345, 353, 369
- 18. 38, ?, 25.2, 18.8, 22
- 19. 0.5, 1, 5, 40, 440,?
- 20. 0.1, 0.2, 1, 8, 88, ?
- 21. 9, 31.4, 20.2, 25.8, 23, ?
- 22. 10, 6, 7, 11.5, 24, ?
- 23. 2880, ?, 720, 80, 5, 0.2
- 24. 259, ?, 253, 245, 229, 197
- 25. 8, 4, 4, 6, 12, 32
- 26. 7, 16, 45, 184, 915, ? 27. 11, 20, 38, 74, ? 290 Xams ? Crack With Us...
- 28. 15, 21, 38, 65, 101, ?
- 29. 24, 28, 19, 35, 10, ?
- 30. 14, 6, 4, 4, 8, ?

Solution

Q1) $4 \times 1 - 1 = 3$

 $3 \times 2 - 1 = 5$

 $5 \times 3 - 1 = 14$

 $14 \times 4 - 1 = 55$

 $55 \times 5 - 1 = 274$

Answer: 274

Q2) 16 - 2.1 = 13.9

 $13.9 + 2.1 \times 2 = 18.1$

 $18.1 - 2.1 \times 3 = 11.8$

 $11.8 + 2.1 \times 4 = 20.2$

Answer: 20.2

Q3) $3 \times 2 = 6$

 $6 \times 3 = 18$

 $18 \times 4 = 72$

 $72 \times 5 = 360$

 $360 \times 6 = 2160$

Answer: 360

Q4) $6 \times 0.5 = 3$

 $3 \times 1 = 3$

 $3 \times 1.5 = 4.5$

 $4.5 \times 2 = 9$

 $9 \times 2.5 = 22.5$

Answer: 22.5

Q5) $24 + 2^2 = 28$ $28 + 4^2 = 44$

 $44 + 6^2 = 80$

 $80 + 8^2 = 144$

 $144 + 10^2 = 244$

Answer: 28

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Q6) 2*2 =4

4*3 =12

12*4 = 48

48*5 = 240

240*6 = 1440

Answer: 240

Q7) 22 - (2.3*1) = 19.7

19.7 + (2.3*2) = 24.3

24.3 - (2.3*3) = 17.4

17.4 + (2.3*4) = 26.6

26.6 - (2.3*5) = 15.1

Answer: 26.6

Q8) 5*1 - 1 = 4

4*2 -1 =7

7*3 -1 =20

20*4 -1 =79

79*5 -1 =394

Answer: 364

Q9) $32 + 2^2 = 36$

 $36 + 4^2 = 52$

 $52 + 6^2 = 88$

 $88 + 8^2 = 152$

 $152 + 10^2 = 252$

Answer: 36

Q10) 21+16 =37

37+3.2 =40.2

40.2+ (16*3) = 88.2

88.2 + (3.2*2) =94.6

94.6 + (48 *3) = 238.6

Answer: 238.6

EXAMS

Q11) (142/2) - 1 = 70

(70/2)-1=34

(34/2)-1=16

(16/2) - 1 = 7

(7/2) -1 = 2.5

Answer: 7

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Q12) 17*0.5 +0.5 = 9

9*1 +1= 10

10*1.5 +1.5 =16.5

16.5 *2 +2 =35

35 *2.5 +2.5 = 90

Answer: 90

Q13) The differences are: 2² -1, 3² -1, 4² -1, 5² -1...

Answer: 76

Q14) 1+3 =4

1+3+4 =8

3+4+8 = 15

4+8+15 =27

8+15+27 =50

Answer: 50

Q15) $5760/1^2 = 5760$ $5760/2^2 = 1440$ $1440/3^2 = 160$ $160/4^2 = 10$ $10/5^2 = 0.4$ Answer:5760

Q16) $8 \times 0.5 + 1 = 5$ $5 \times 1 + 1 = 6$ $6 \times 1.5 + 1 = 10$ $10 \times 2 + 1 = 21$ $21 \times 2.5 + 1 = 53.5$ Answer: 53.5

Q17) 339 + 2¹ = 341 341 + 2² = 345 345 + 2³ = 353 353 + 2³ = 369 Answer: 341

12.4 + 25.6/2 = 25.2 25.2 - 25.6/4 = 18.8 18.8 + 25.6/8 = 22

18.8 + 25.6/8 = 22 Vt Exams ? Crack with Us...

Q19) $0.5 \times 2 = 1$ $1 \times (2 + 3) = 5$ $5 \times (2 + 3 + 3) = 40$ $40 \times (2 + 3 + 3 + 3) = 440$ $440 \times (2 + 3 + 3 + 3 + 3) = 6160$ Answer: 6160 Q20) $0.1 \times 2 = 0.2$ $0.2 \times (2+3) = 1$ $1 \times (2+3+3) = 8$ $8 \times (2+3+3+3) = 88$ $8 \times (2+3+3+3+3) = 1232$ Answer: 1232

Q21) 9 + 22.4 = 31.4

31.4 - 22.4/2 = 20.2 20.2 + 22.4/4 = 25.8 25.8 - 22.4/8 = 2323 + 22.4/16 = 24.4

Answer: 24.4

Q22) $10 \times 0.5 + 1 = 6$

 $6 \times 1 + 1 = 7$

 $7 \times 1.5 + 1 = 11.5$

 $11.5 \times 2 + 1 = 24$

 $24 \times 2.5 + 1 = 61$

Answer: 61

Q23) $2880/1^2 = 2880$

 $2880/2^2 = 720$

 $720/3^2 = 80$

 $80/4^2 = 5$

 $5/5^2 = 0.2$

Answer: 720

EXAMS

Q24) 259 - 2 = 257

257 - 2 = 253

253 - 2 = 245

245 - 2 = 229

229 - 2 = 197

Answer: 257

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Q25) 8*0.5 =4

4* 1 =4

4*1.5 =6

6*2 = 12

12*2.5 = 30

So the wrong term is 32

Q26) x2+2, x3-3, x4+4...

Answer: 5496

Q27) +9+18+36+72+

Answer= 146

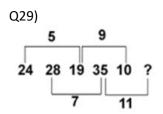
Q28) Difference (6+17+27+36+44..)

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6+11=17 17+10= 27 27+9 = 36 36+8=44 Answer= 145



Answer: 46

Q30) X1-8, x2-8, x3-8, x4-8 ...

Answer: 32



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Wrong Number Series

```
1). 50 51 47 56 42 65 29
```

- 51 a.
- b. 47
- 56 *c*.
- d. 42
- 65 e.

2). 3 9 23 99 479 2881 20159

a.

- 23 b.
- 99 *c*.
- 479
- d. 2881 e.

3). 7 4 6 9 20 52.5 160.5

- 6 a.
- b. 4
- Govt Exams? Crack with Us... *c*.
- d.
- 52.5 e.

4). 1 3 6 11 20 39 70

- 3 a.
- b. 39
- 11 c.
- 20 d.
- e.

5). 2 13 27 113 561 3369 23581

- 27 a.
- b. 13
- 113 *c*.
- 561 d.
- 3369 e.

- 6). 7 16 27 40 46
- *a*. 7
- b. 16
- *c*. 27
- d. 40
- e. 46
- 7). 729 1331 2497 3375 4913
- *a.* 729
- *b.* 1331
- *c.* 3375
- d. 2497
- e. 4913
- 8). 80 119 166 221 223
- a. 80
- b. 119
- c. 166
- d. 192
- e. 223
- 9). 8 8.5 11.5 14 17
- a. 8
- b. 8.5
- c. 11.5
- d. 14
- e. 17Govt Exams? Crack with Us...
- 10). 439 778 1456 2812 5624
- a. 439
- *b.* 778
- c. 1456
- d. 2812
- *e.* 5624
- 11). 17, 36, 132, 635, 3500, 21750, 153762
- *a.* 635
- *b.* 17
- c. 132
- d. 3500
- e. 36
- 12). 17, 20, 46, 147, 599, 3015, 18018

- a. 20
- b. 46
- *c*. 599
- d. 147
- e. 3015
- 13). 90, 135, 286, 750, 2160, 6405, 19155
- *a.* 90
- *b.* 750
- c. 6405
- d. 286
- e. 2160
- 14). 9, 14, 40, 129, 536, 2705, 16260
- a. 14
- b. 40
- c. 536
- d. 9
- e. 129
- 15). 8, 18<mark>, 64</mark>, 272, 1395, 84<mark>24</mark>, 59045
- a. 18
- b. 8
- *c*. 272
- d. 1395
- e. 64
- 16). 32, 39, 65, 128, 253, 467, 809, 1320
- a. 39
- b. 65
- *c.* 253
- d. 467
- *e.* 32
- 17). 38, 49, 62, 72, 77, 91, 101
- a. 49
- *b*. 72
- *c*. 77
- d. 91
- e. 38
- 18).19, 22, 32, 46, 73, 108, 158
- a. 22
- b. 46

- c. 73
- d. 19
- e. 158

19). 47, 44, 45, 46, 33, 57, 3, 88

- a. 44
- *b*. 57
- c. 46
- d. 3
- *e.* 47

20). 45, 131, 228, 338, 466, 619, 800

- a. 131
- b. 466
- c. 619
- d. 45
- e. 800

Esolution All S

1). The series is
$$50 + 1^2 = 51$$
, $51 - 2^2 = 47$, $47 + 3^2 = 56$, $56 - 4^2 = 40$, $40 + 5^2 = 65$, $65 - 6^2 = 29$.

Hence, there should be 40 in place of 42.

Answer is: Dvt Exams? Crack with Us...

2). The series is $3 \times 2 + 3 = 9$, $9 \times 3 - 4 = 23$, $23 \times 4 + 5 = 97$, $97 \times 5 - 6 = 479$, $479 \times 6 + 7 = 2881$,

 $2881 \times 7 - 8 = 20159$

Hence, there should be 97 in place of 99.

Answer is: C

- 3). The series is x0.5 + 0.5, x1 + 1, x1.5 + 1.5, x2 + 2, x2.5 + 2.5, x3 + 3... Hence, there should be 5 in place of 6. Answer is: A
- 4). The series is $1 \times 2 + 1 = 3$, $3 \times 2 + 0 = 6$, $6 \times 2 1 = 11$, $11 \times 2 2 = 20$, $20 \times 2 3 = 37$, $37 \times 2 4 = 70$.

Hence, there should be 37 in place of 39.

Answer is: B

5). The series is $2 \times 2 + 7 = 11$, $11 \times 3 - 6 = 27$, $27 \times 4 + 5$, = 113, $113 \times 5 - 4 = 561$, $561 \times 6 + 3 = 3369$, $3369 \times 7 - 2 = 23581$.

Hence, there should be 11 in place of 13.

Answer is: B

6). The series is $5 \times 1 + 2 = 7$, $6 \times 2 + 4 = 16$, $7 \times 3 + 6 = 27$, $8 \times 4 + 8 = 40$, $9 \times 5 + 10 = 55$.

Hence, there should be 55 in place of 46.

Alternate Method: +9, +11, +13, +15

Answer is: E

7). The series is 9³, 11³, 13³, 15³, 17³,

Hence, there should be 2197 in place of 2497.

Answer is: D

8). The series is 9^2 - 1, 11^2 - 2, 13^2 - 3, 15^2 - 4, 17^2 - 5,

Hence, there should be 284 in place of 223.

Answer is: E

9). The series is 8 + 1.5 = 9.5, 9.5 + 2 = 11.5, 11.5 + 2.5 = 14, 14 + 3 = 17

Hence, there should be 9.5 in place of 8.5.

Answer is: B

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10). The series is +339, +678, +1356, +2712,

Hence, there should be 5524 in place of 5624.

Answer is: E

11). The number series should be 636 in the place of 635.

The series is $(17 + 1^3) \times 2$, $(36 + 2^3) \times 3$, $(132 + 3^3) \times 4$, $(636 + 4^3) \times 5$

Answer is: a)

12). The number series should be 600 in the place of 599.

The series is $\times 1 + 3$, $\times 2 + 6$, $\times 3 + 9$, $\times 4 + 12$, $\times 5 + 15$

Answer is: c)

13). The number series should be 285 in the place of 286.

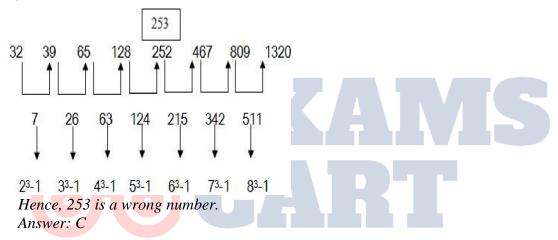
The series is $(90-45) \times 3$, $(135-40) \times 3$, $(285-35) \times 3$, $(750-30) \times 3$, $(2160-25) \times 3$,...

Answer is: d)

14). The number series should be 38 in the place of 40. The series is $\times 1 + 5$, $\times 2 + 10$, $\times 3 + 15$, $\times 4 + 20$, $\times 5 + 25$ Answer is: b)

15). The number series should be 63 in the place of 64. The series is $(8+1) \times 2$, $(18+3) \times 3$, $(63+5) \times 4$, $(272+7) \times 5$ Answer is: e)

16). The series is...



17). The series is,
$$38 = 3 + 8 = 11 = 38 + 11 = 49$$

$$49 = 4 + 9 = 13 = 49 + 13 = 62$$

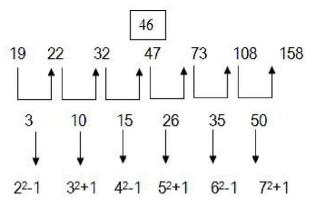
$$62 = 6 + 2 = 8 = 62 + 8 = 70 \neq 72$$

$$70 = 7 + 0 = 7 = 70 + 7 = 77$$

$$91 = 9+1 = 10 = 91+10 = 101$$

Hence, 72 is the wrong number.

18) The series,



Hence, 46 is the wrong number

Answer: B

$$47-(1\times 2) = 45$$

$$45-(3\times4)=33$$

$$33 - (5 \times 6) = 3$$

Second series 44, 46, 57, 88

$$44 + (1 \times 2) = 46$$

$$46 + (3 \times 4) = 58 \neq 57$$

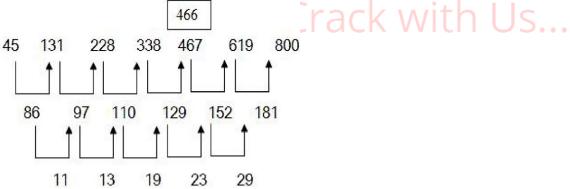
$$58 + (5 \times 6) = 88$$

Hence, 57 is the wrong answer.

Answer: B

EXAMS swer. FART

20). The series is,



11, 13, 19, 23 and 29 are the prime numbers

Hence, 466 is the wrong number.

Answer: B

Wrong Number Series

1). 1, 8, 66, 460, 2758, 13785, 55146

- a. 460
- b. 2758
- *c*. 66
- *d*. 8
- e. 55146
- 2). 56, 57, 48, 73, 24, 105, -10
- *a.* 57
- *b.* 73
- *c.* 105
- d. -10
- e. 24
- 3). 2, 2, 13, 59, 363, 2519, 20161
- a. 13
- *b.* 20161
- c. 2519
- *d.* 59
- e. 363

EXAMS

4). 3, 1, 3, 0.7, 3, 0.6, 3, 0.5, 3

- a. 1
- b. 0.7
- c. 0.6
- d. 3
- *e*. 0.5
- 5). 2, 6, 13, 26, 54, 100, 197 ams? Crack with Us...
- a. 26
- b. 100
- *c*. 54
- d. 197
- e. 13
- 6). 3, 7.5, 15, 37.5, 75, 167.5, 375
- *a.* 167.5
- *b.* 75
- *c.* 37.5
- d. 15
- *e*. 7.5
- 7). 0, 1, 9, 36, 99, 225, 441
- a. 9
- b. 36

- 99 *c*.
- d. 225
- 441 e.
- 8). 2, 3, 5, 8, 14, 23, 41, 69
- 5 a.
- 8 b.
- 14 *c*.
- 41 d.
- 69 e.
- 9). 5, 10, 17, 27, 37, 50, 65
- 10 a.
- 17 b.
- 37 c.
- 27 d.
- 50

10). 108, 54, 36, 18, 9, 6, 4

- 54 a.
- b. 36
- 18 c.
- d.
- e.

11). 4, 12, 42, 196, 1005, 6066, 42511

- a.
- ovt Exams? Crack with Us... b. 42
- 196 c.
- 1005 d.
- 6066 e.
- 12). 7, 13, 25, 49, 97, 194, 385
- 13 a.
- 25 b.
- 49 c.
- 194 d.
- 385 e.
- 13). 10, 15, 24, 35, 54, 75, 100
- 10 a.
- 24 b.
- 35 c.
- 54 d.

- 100 e.
- 14). 2, 8, 32, 148, 765, 4626, 32431
- 32431 a.
- b. 765
- 148 c.
- 32 d.
- 2 e.
- 15). 73, 57, 49, 44, 43, 42
- 73 a.
- 57 b.
- 49 c.
- 44 d.
- e. 42
- *16*). *1527*, *1185*, *985*, *865*, *823*, *817*
- 985 a.
- 865 b.
- 823 c.
- d. 817
- 1185 e.
- *17*). *110*, *106*, *204*, *608*, *2384*, *11900*
- 2384 a.
- 106 b.
- 11900 c.
- vt Exams? Crack with Us... 608 d.
- 204 e.
- 18). 71, 90, 128, 185, 261, 365
- 365 a.
- 128 b.
- 185 c.
- 90 d.
- 261 e.
- 19). 8, 17.5, 64.75, 157.375, 561.3125, 1400.78125
- 17.5 a.
- 64.75 b.
- 157.375 *c*.
- 561.3125 d.
- 1400.78125 e.

20). 18, 36, 144, 864, 6912, 691020

- *a.* 691020
- b. 144
- c. 864
- d. 6912
- *e.* 36
- 21). 76, 75, 142, 399, 1530, 7535
- a. 399
- *b.* 142
- *c.* 75
- d. 1530
- *e.* 7535
- 22). 84, 138, 192, 270, 348, 434
- a. 192
- b. 138
- c. 84
- d. 348
- e. 434
- 23). 88, 88, 176, 530, 2112, 10560
- a. 88
- b. 176
- c. 2112
- d. 105602
- e. 53Govt Exams? Crack with Us...
- 24). 2400, 1295, 625, 255, 80, 15
- a. 2400
- b. 1295
- *c*. 625
- d. 80
- e. 15
- 25). 45, 62, 81, 102, 123, 150
- a. 45
- *b*. 62
- *c.* 102
- d. 81
- e. 123
- 26). 127 470 686 811 875 885

- a. 470
- b. 686
- *c.* 811
- d. 885
- *e.* 875

27). 1296 652 328 169 88.5 48.25

- a. 328
- *b.* 169
- *c.* 88.5
- d. 1296
- *e*. 652

28). 2 5 15 131 530 13257

- *a.* 5
- *b.* 15
- c. 131
- *d.* 530
- e. 13257

29). 508 640 776 925 1092 1283

a. 640

- b. 508
- c. 925
- d. 1092
- e. 1283

30). 1325 714 318 90 -18 -54 ams? Crack With Us...

- a. 714
- b. 318
- c. 90
- d. -18
- e. 1325

Solution

1). 1 8 66 460 2758 13785 55146 Here 1 × 9 - 1 = 8; 8 × 8 + 2 = 66; 66 × 7 - 3 = 459; 459 × 6 + 4 = 2758; 2758 × 5 - 5 = 13785; 13785 × 4 + 6 = 55146

Answer: a)

```
2). 56 57 48 73 24 105 -10
Here 56 + 1^2 = 57:
57 - 3^2 = 48; 48 + 5^2 = 73; 73 - 7^2 = 24; 24 + 9^2 = 105; 105 - 11^2 = -16
Answer: d)
3). 2 2 13 59 363 2519 20161
Here 2 \times 3 - 4 = 2; 2 \times 4 + 5 = 13;
13 \times 5 - 6 = 59; 59 \times 6 + 7 = 361; 361 \times 7 - 8 = 2519; 2519 \times 8 + 9 = 20161
Answer: e)
4). 3 1 3 0.7 3 0.6 3
3 \times 1/3 = 1;
1 \times 3 = 3;
3 \times 1/4 = 0.75:
0.75 \times 4 = 3:
3 \times 1/5 = 0.6;
0.6 \times 5 = 3;
3 \times 1/6 = 0.5;
0.5 \times 6 = 3.
Answer: b)
```

5). 26132654100197Here $2 \times 2 + 2 = 6$; $6 \times 2 + 1 = 13$; $13 \times 2 + 0 = 26$; $26 \times 2 - 1 = 51$;

 $13 \times 2 + 0 = 26$; $26 \times 2 - 1 = 31$; $51 \times 2 - 2 = 100$; $100 \times 2 - 3 = 197$

Answer: c)

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- 6). The series is $\times 2.5$, $\times 2$ alternately Answer: a)
- 7). The differences are 0 1 9 36 99 225 441 0² 1² 3² 6² 10² 15² 21² Answer: c)
- 8). The series is an alternate series, having S 1 = 251441; $\times 3 1$ in each term S 2 = 382369; $\times 3 1$ in each term Answer: e)
- 9). The series is +5, +7, +9, +11,

Answer: d)

10). The series is $\div 2$, $\div 1.5$ alternately. Answer: d)

11). b) 4, 12, 42, 196, 1005, 6066, 42511 $4 \times 2 + (2)^2 = 12$ $12 \times 3 + (3)^2 = 45$ $45 \times 4 + (4)^2 = 196$ $196 \times 5 + (5)^2 = 1005$ $1005 \times 6 + (6)^2 = 6066$ $6066 \times 7 + (7)^2 = 42511$

Hence, 42 is the wrong number

12). d)
7, 13, 25, 49, 97, 194, 385
7× 2 -1= 13
13× 2 -1= 25
25× 2 -1= 49
49× 2 -1= 97
97× 2 -1= 193
193× 2 -1= 385
Hence, 194 is the wrong number

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13). c) GOVE EXAMS? Crack With US...
10, 15, 24, 35, 54, 75, 100
Hence, 35 is the wrong number

14). d)
2, 8, 32, 148, 765, 4626, 32431 $2 \times 2 + 2^2 = 8$ $3 \times 8 + 3^2 = 33$ $4 \times 33 + 4^2 = 148$ $5 \times 148 + 5^2 = 765$ $6 \times 765 + 6^2 = 4626$ $7 \times 4626 + 7^2 = 32431$ Hence, 32 is the wrong number.
15). d)
73, 57, 49, 44, 43,42
73-57= 16
57-49=8

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49-45 = *4*

45-43=2

43-42=1

Differences between the consecutive numbers are in Geometric Progression (G.P) Hence, 44 is the wrong number.

16). A) The series is

$$1527 - (19^2 - 19) = 1185,$$

$$1185 - (15^2 - 15) = 975,$$

$$975$$
— $(11^2$ — $11) = 865,$

$$865 - (7^2 - 7) = 823$$
,

$$823 - (3^2 - 3) = 817$$

There should be 975 in place of 985.

17). D) The series is $110 \times 1 - 4 = 106$,

$$106 \times 2 - 8 = 204$$
, $204 \times 3 - 12 = 600$, $600 \times 4 - 16 = 2384$, $2384 \times 5 - 20 = 11900$

There should be 600 in place of 608.

18). A) The series is

$$71 + 19 = 90, 90 + 38 = .128, 128 + 57 = 185, 185 + 76 = 261, 261 + 95 = 356$$
 Hence there should be 356 in place of 365.

19). C) The series is

$$8 \times 2.5 - 2.5 = 17.5$$

$$17.5 \times 3.5 + 3.5 = 64.75$$
,

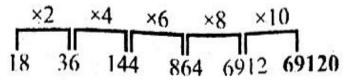
$$17.3 \times 3.3 + 3.5 = 64.75$$
, $64.75 \times 2.5 - 2.5 = 159.375$, $375 \times 375 \times$

 $159.375 \times 3.5 + 3.5 = 561.3125$

$$561.3125 \times 2.5 - 2.5 = 1400.78125, ...$$

Hence there should be 159.375 in place of 157.375.

20). A) The series is...



Hence there should be 69120 in place of 691020.

21). D) The series is

$$76 \times 1 - 1^3 = 75$$
,

$$75 \times 2 - 2^3 = 142$$

$$142 \times 3 - 3^3 = 399$$
,

$$399 \times 4 - 4^3 = 1532$$
,

$$1532 \times 5 - 5^3 = 7535, \dots$$

Hence there should be 1532 in place of 1530.

22). A) The series is

$$21 \times 4 = 84$$

$$23 \times 6 = 138$$
,

$$25 \times 8 = 200$$
,

$$27 \times 10 = 270$$
,

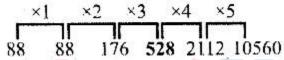
$$29 \times 12 = 348$$
,

$$31 \times 14 = 434, \dots$$

Hence there should be 200 in place, of 192.

Therefore the wrong number is 192.

23). E) The series is



Hence there should be 528 in place of 530.

Therefore the wrong number is 530.

24). C) The series is $7^4 - 1 = 2400$,

$$6^4 - 1 = \frac{1295}{5}, 5^4 - 1 = 624, 4^4 - 1 = 255, 3^4 - 1 = 80, 2^4 - 1 = 15, ...$$

Hence there should be 624 in place of 625.

Therefore, the wrong number is 625.

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25). E) The series is

Hence there should be 125 in place of 123.

Therefore the wrong number is 123.

26). The series is $+7^3$, $+6^3$, $+5^3$, $+4^3$, $+3^3$, $+2^3$, ...

The series is 127 + 343 = 470, 470 + 216 = 686, 686 + 125 = 811, 811 + 64 = 875, 875 + 27 = 902,

Therefore it should be 902 in place of 885.

Answer: d)

27). The series is $\div 2 + 4$ (repeated)

 $1296 \div 2 + 4 = 652$, $652 \div 2 + 4 = 330$, $330 \div 2 + 4 = 169$, $169 \div 2 + 4 = 88.5$, $88.5 \div 2 + 4 = 48.75$, ...

Therefore it should be 330 in place of 328.

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Answer: a)

28). The series is $2 \times 12 + 3 = 5$, $5 \times 2 + 4 = 14$, $14 \times 32 + 5 = 131$, $131 \times 4 + 6 = 530$, $530 \times 52 + 7 =$

13257,...

Therefore it should be 14 in place of 15.

Answer: b)

29). The series is 508 + 131 = 639, 639 + 137 = 776, 776 + 149 = 925, 925 + 167 = 1092, 1092 + 191 =

1283, ...

Hence it 'should be 639 in place of 640.

Answer: a)

30). The series is (11)3 - 5 = 1326,

 $(9)^3 - 15 = 714, (7)^3 - 25 = 318, (5)^3 - 35 = 90, (3)^3 - 45 = -18, (1)^3 - 55 = -54$

Hence it should be 1326 in place of 1325.

Answer: e)

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