# LOGICAL NUMBER

1 . Find the next term 1 , 1 , 2 , 8 , 3 , 27 , 4

= 1 , 1 , 2 , 8 , 3 , 27 , 4 x

$1^3$ $2^3$ $3^3$ $4^3$

=> $4^3 = 64$

Ans = 64

2 . Find the wrong number in their series 2 , 9 , 28 , 65 , 126 , 216 , 344?

2 , 9 , 28 , 65 , 126 , 216 , 344

$1^3 + 1$ $2^3 + 1$ $3^3 + 1$ $4^3 + 1$ $5^3 + 1$ $6^3$ $7^3 + 1$

So 216 is the wrong number in this series.

3 . Find the wrong number in the series

10 , 14 , 28 , 32 , 64 , 68 , 132

10 , 14 , 28 , 32 , 64 , 68 , 132

4 14 X 2 4 32 X 2 4 68 X 2

68 X 2 = 136

So the wrong number is 132

4 . Find out the missing term in the seies 42 , 30 , x , 12 , 6

42 , 30 , ? , 12 , 6

12 10 8 6

30 – 10 = 20

Ans : 20

5 . Insert the missing number 1 , 8 , 27 , 64 , 125 , 216 ,?

1 , 8 , 27 , 64 , 125 , 216 , ?

$1^3$ $2^3$ $3^3$ $4^3$ $5^3$ $6^3$ $7^3$

Ans : 343

6 . Insert the missing number 2 , 6 , 12 , 20 , 30 , 42 , 56 , ?

2 , 6 , 12 , 20 , 30 , 42 , 56 , ?

4 6 8 10 12 14 16

56 + 16 = 72

Ans : 72

7 . Find the odd man out 4 , 9 , 19 , 39 , 79 , 149, 319

4 , 9 , 19 , 39 , 79 , 149 , 319

4X2+1 9X2+1 19x2+1 39X2+1 79X2+1 159X2+1

79x2+1 should be 159

So the odd one is 149.

8 . Find the wroung number in the given series 5 , 11 , 23 , 47 , 96 , 191 , 383

5 , 11 , 23 , 47 , 96 , 191 , 383

5X2+1 11X2+1 23X2+1 47X2+1 96X2+1 193X2+1

96x2+1 should be 193

So the odd one is 191.

9 . The next term in the series 7 , 3 , 10 , 13 , 23 ?

7 , 3 , 10 , 13 , 23 ?

7+3=10 10+3=13 13+10=23 13+23=36

13 + 23 = 36

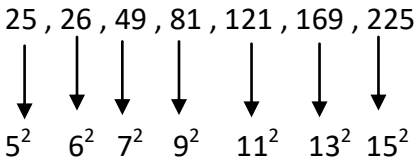
Ans : 36

10 . Find the odd man out 3 , 5 , 7 , 12 , 17 , 19

Expect 12 all other number are prime numbers

So the odd man is 12

11 . Find the add number in the given seeies 25 , 26 , 49 , 81 , 121 , 169 , 225



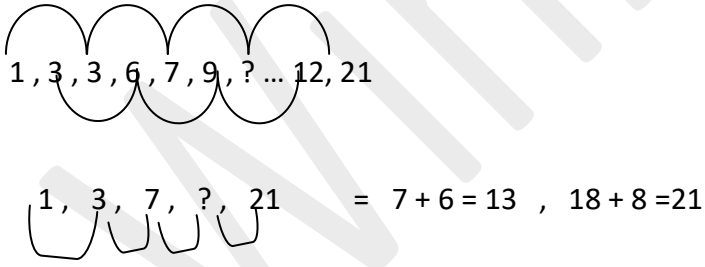

Expect 6 all other values.

12 . Find the odd man out in the series 2 , 3 , 4 , 4 , 6 , 8 , 9 , 12 , 16

- 1th 4th 7th terms 2 , 4 , 9 = 2x2= 4 , 4X2=8
- 2th 5th 8th terms 3 , 6 , 12 = 3X3=6 , 6X2=12
- 3rd 6th 9th terms 4 , 6 , 16 = 4X2=8 , 8X2= 16

So 9 is wroung The 9 should be replaced by 8 .

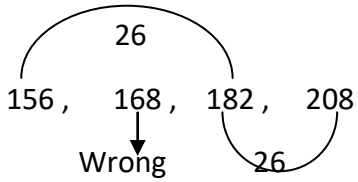
13 . Find the missing number 1 , 3 , 3 , 6 , 7 , 9 , ? … 12, 2




So misinng number = 13

14 . Find the wroung number in the sequence

156 , 168 , 182 , 208



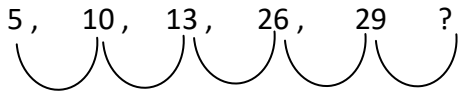

Expect 168 all the other value ,

Have the difference 26

So the wroung number is 126.

15 . Find the next number in the following

Series 5 , 10 , 13 , 26 , 29




X2 +3 X2 +3 X2

29 X 2 = 58

Ans : 58

16 . The odd man out in the following

1 , 144 , 16 , 25 , 49 , 81 , 121 , 36 , 65

Expect 65 all other values are

Square of 1 , 12 , 4 , 5 , 7 , 9 , 11 , 6

17 . The odd man out in the following

1 , 125 , 8 , 216 , 1000 , 343 , 729 , 100 is

Expect 100 all the other values

Are cubes 1 , 125 ,2 , 6 , 10 , 7 , 9 .

18 . find the next number of the square

0 , 5/2 , 8 , 17/2 , 24 , 37/2 , 48

- $0+\frac{5}{2}=\frac{5}{2}$
- $\left(-\frac{5}{2}\times 2\right)+3=8$
- $8+\frac{9}{2}=\frac{17}{2}$

$\frac{17}{2}\times 2+7=24$

$24+\frac{13}{2}=37/2$

$\frac{37}{2}\times 2+111=48$

$$48+\frac{17}{2}=\frac{65}{2}$$

So the next number is 65/2

19 . Find the missing term 3 , 15 , ? , 63 , 99 , 143

3 , 15 , ? , 63 , 99 , 143

- 2 x 2 – 1 = 3
- 4 X 4 – 1 = 15
- 6 X 6 – 1 = 35

* 8 X 8 – 1 =63
* 10 X 10 – 1 = 99
* 12 x 72 – 1 = 143

So the missing number is 35

20 . complete the series AZ , GT , MN , ? , YB

| | |
|---|---|
| A+5=G | Z-5=T |
| G+5= M | T-5=N |
| M+5=S | N-5=H |
| S+ 5=Y | H-5=B |

Missing series Ans : SH

21 . Find the next alphabet In the Sequence B,E,I,N ,x ?

B+2,E+3,I+4,N+5,T

So the answer is T

22 . Find the missing letters in the series AZ , GT , MN , x , YB ?

| | |
|---|---|
| A+5=G | Z-5=T |
| G+5= M | T-5=N |
| M+5=S | N-5=H |
| S+ 5=Y | H-5=B |

So the answer is SH

23 . Find the next letter in the following sequence of albhabet M N O L R I V?

Inverse of M is N,

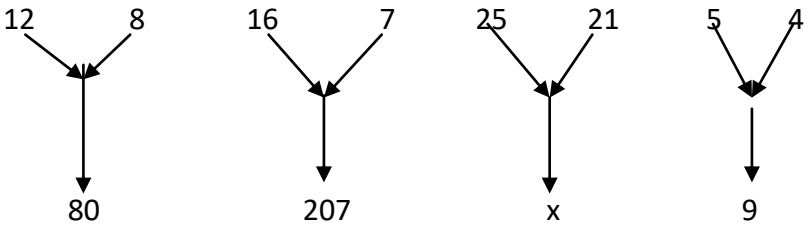
Inverse of O is L,

Inverse of R is I,

So Inverse of V is E.

So the answer E

24 . Find the missing number in the series




144 – 84 = 80  256 – 49 = 207  625 – 441 = 184  25-16=9

25 . Find the next number n the following ?

Series 4 , 6 , 9 , 13 ½

4 , 6 , 9 , 13 ½ x ?

4X1.5  6X1.5  9X1.5  13 ½ X 1.5

= 20.25  = 20 ¼

26 . Find the next number in the series

5 , 23 , 59 , 119 , 209

5 , 23 , 59 , 119 , 209 335

23 ÷ 5 = 23-59  60  90

18  36  60  90  126

18-36 =18  24  30  36

So the missing number is 335

27 . The next term of the sequence 25 , 36 , 49 , 64 , 81

25  36  49  64  81  ?

$5^2$  $6^2$  $7^2$  $8^2$  $9^2$  $10^2$

Ans : 200

28 . How many two digit numbers are divisible by 13 ?

13 X 7 = 91

= So 7 two digit numbers are divisible by 13

29 . Find the missing number in place of 3 : 11 : : 7 : ?

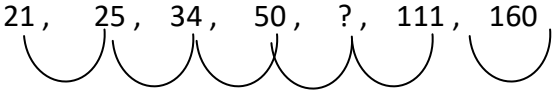
3 : 11 : : 7 : ?

( $3^2$ ) + 2 ( $7^2$ ) + 2 = 49 + 2

Ans : 51

30 . Find the number in the place of question mark 21 , 25 , 34 , 50 , ? , 111 , 160

21 , 25 , 34 , 50 , ? , 111 , 160



4 9 16 25 36 49

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

50 + 25 = 75