

1. Insert the missing number. 12, 25, 49, 99, 197, 395, (...)

- A. 789                                      B. 1579  
C. 722                                        D. 812

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**Answer :** Option A

**Explanation :**

Each number is twice the previous one with 1 added or subtracted alternatively.

2. Insert the missing number. 34, 7, 37, 14, 40, 28, 43, (...)

- A. 31    B. 42  
C. 46    D. 56

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**Answer :** Option D

**Explanation :**

We have two series here

34, 37, 40, 43, ... (Increase by 3)

7, 14, 28, ... (Multiply by 2)

Hence, next term is  $28 \times 2 = 56$

3. Find the missing number. 1, 4, 9, 16, 25, 36, 49, (...)

- A. 64    B. 54  
C. 56    D. 81

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**Answer :** Option A

**Explanation :**

The series is  $1^2, 2^2, 3^2, 4^2, 5^2, 6^2, 7^2, \dots$

Hence, next term =  $8^2 = 64$

4. Insert the missing number. 2, 7, 10, 22, 18, 37, 26

- A. 42    B. 52  
C. 46    D. 62

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**Answer :** Option B

**Explanation :**

There are two series here

2, 10, 18, 26, ... (Increase by 8)

7, 22, 37, ... (Increase by 15)

Hence, next term is  $37+15 = 52$

5. 4, 12, 48, 240, 1440, (...)

A. 7620                      B. 10080

C. 6200                      D. 10020

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**Answer :** Option B

**Explanation :**

Go on multiplying the given numbers by 3, 4, 5, 6, 7

6. 2, 3, 6, 0, 10, -3, 14, (...)

A. 6                              B. 2

C. -2                             D. -6

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**Answer :** Option D

**Explanation :**

There are two series

2, 6, 10, 14, ... (Adding 4)

3, 0, -3, ... (Subtracting 3)

Hence, next term is  $-3 - 3 = -6$

7. 5, 10, 13, 26, 29, 58, 61, (....)

A. 128                            B. 64

C. 125                            D. 122

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**Answer :** Option D

**Explanation :**

Numbers are alternatively multiplied by 2 and increased by 3

$$5 \times 2 = 10$$

$$10 + 3 = 13$$

$$13 \times 2 = 26$$

$$26 + 3 = 29$$

$$29 \times 2 = 58$$

$$58 + 3 = 61$$

$$61 \times 2 = 122$$

8. 1, 8, 27, 64, 125, 216, (...)

A. 354                      B. 392

C. 343                      D. 245

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**Answer :** Option C

**Explanation :**

The pattern is  $1^3, 2^3, 3^3, 4^3, 5^3, 6^3$ , etc

Hence, next number is  $7^3 = 343$

9. 4, 5, 7, 11, 19, (...)

A. 22                      B. 35

C. 27                      D. 32

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**Answer :** Option B

**Explanation :**

4

$$4 \times 2 - 3 = 5$$

$$5 \times 2 - 3 = 7$$

$$7 \times 2 - 3 = 11$$

$$11 \times 2 - 3 = 19$$

$$19 \times 2 - 3 = 35$$

10. 23, 29, 31, 37, 41, 43, (...)

A. 53                      B. 47

C. 48                      D. 59

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**Answer :** Option B

**Explanation :**

All are prime numbers in their order, starting from 23

Hence, next number is 47

11. 8, 24, 12, 36, 18, 54, (...)

A. 27                      B. 68

C. 108                     D. 72

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**Answer :** Option A

**Explanation :**

$$8 \times 3 = 24$$

$$24 \div 2 = 12$$

$$12 \times 3 = 36$$

$$36 \div 2 = 18$$

$$18 \times 3 = 54$$

$$54 \div 2 = 27$$

12. 7, 26, 63, 124, 215, 342, (...)

A. 481                      B. 391

C. 511                     D. 421

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**Answer :** Option C

**Explanation :**

The series is  $(2^3 - 1)$ ,  $(3^3 - 1)$ ,  $(4^3 - 1)$ ,  $(5^3 - 1)$ ,  $(6^3 - 1)$ ,  $(7^3 - 1)$ , ...

Hence, next number is  $(8^3 - 1) = 511$

13. 2, -6, 18, -54, 162, (...)

A. 486                      B. -486

C. 422                     D. -428

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**Answer :** Option B

**Explanation :**

$$\begin{aligned}2 \times -3 &= -6 \\-6 \times -3 &= 18 \\18 \times -3 &= -54 \\-54 \times -3 &= 162 \\162 \times -3 &= -486\end{aligned}$$

14. 2, 6, 12, 20, 30, 42, 56, (...)

- A. 61                      B. 72  
C. 64                      D. 70

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**Answer :** Option B

**Explanation :**

The pattern is  $1 \times 2, 2 \times 3, 3 \times 4, 4 \times 5, 5 \times 6, 6 \times 7, 7 \times 8$ .

Hence, next number is  $8 \times 9 = 72$

15. 8, 12, 18, 27, 40.5, (...)

- A. 60.75                  B. 62  
C. 58                      D. 60.5

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**Answer :** Option A

**Explanation :**

$$\begin{aligned}8 \\(8 \times 3) \div 2 &= 12 \\(12 \times 3) \div 2 &= 18 \\(18 \times 3) \div 2 &= 27 \\(27 \times 3) \div 2 &= 40.5 \\(40.5 \times 3) \div 2 &= 60.75\end{aligned}$$

16. 196, 144, 100, 64, 36, ?

- A. 16                      B. 8  
C. 18                      D. 12

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**Answer :** Option A

**Explanation :**

The patter is  $14^2, 12^2, 10^2, 8^2, 6^2, \dots$

So next number is  $4^2 = 16$

17. 2, 3, 5, 16, 231, ?

- A. 62005      B. 52120  
C. 422        D. 53105

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**Answer :** Option D

**Explanation :**

2

3

$$3^2 - 2^2 = 5$$

$$5^2 - 3^2 = 16$$

$$16^2 - 5^2 = 231$$

$$231^2 - 16^2 = 53105$$

18. 279936, 46656, 7776, 1296, 216, ?

- A. 60                      B. 46  
C. 36                      D. 66

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**Answer :** Option C

**Explanation :**

Go on dividing by 6 to the next number

19. 220, 218, 214, 208, 200, 190, ?

- A. 166                      B. 178  
C. 182                      D. 190

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**Answer :** Option B

**Explanation :**

220

$$220 - 2 = 218$$

$$218 - 4 = 214$$

$$214 - 6 = 208$$

$$208 - 8 = 200$$

$$200 - 10 = 190$$

$$190 - 12 = 178$$

20. 12, 38, 116, 350, 1052, ?

- A. 1800            B. 2200  
C. 2800            D. 3158

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**Answer :** Option D

**Explanation :**

12

$$12 \times 3 + 2 = 38$$

$$38 \times 3 + 2 = 116$$

$$116 \times 3 + 2 = 350$$

$$350 \times 3 + 2 = 1052$$

$$1052 \times 3 + 2 = 3158$$

21. 9, 35, 91, 189, 341, ?

- A. 502            B. 521  
C. 559            D. 611

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**Answer :** Option C

**Explanation :**

$$1^3 + 2^3 = 9$$

$$2^3 + 3^3 = 35$$

$$3^3 + 4^3 = 91$$

$$4^3 + 5^3 = 189$$

$$5^3 + 6^3 = 341$$

$$6^3 + 7^3 = 559$$

22. 78, 64, 48, 30, 10, (...)

- A. -12            B. -14  
C. 2            D. 8

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**Answer :** Option A

**Explanation :**

$$78 - 14 = 64$$

$$64 - 16 = 48$$

$$48 - 18 = 30$$

$$30 - 20 = 10$$
$$10 - 22 = -12$$

23. 16384, 8192, 2048, 256, 16, ?

- A. 1                      B. 8  
C. 2                      D. 0.5

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**Answer :** Option D

**Explanation :**

Terms are continuously divided by 2,4,8,16, and so on

$$16384$$
$$16384 \div 2 = 8192$$
$$8192 \div 4 = 2048$$
$$2048 \div 8 = 256$$
$$256 \div 16 = 16$$
$$16 \div 32 = 0.5$$

24. 46080, 3840, 384, 48, 8, 2, ?

- A. 1                      B.  $\frac{1}{64}$   
C.  $\frac{1}{8}$                       D. None of these

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**Answer :** Option A

**Explanation :**

$$46080 \div 12 = 3840$$
$$3840 \div 10 = 384$$
$$384 \div 8 = 48$$
$$48 \div 6 = 8$$
$$8 \div 4 = 2$$
$$2 \div 2 = 1$$

25. 7, 21, 63, 189, 567, ?

- A. 1521                      B. 1609  
C. 1307                      D. 1701

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**Answer :** Option D

**Explanation :**



Multiply a term with 3 to get the next term

26. 1, 0.5, 0.25, 0.125, 0.0625, ?

- A. 0.015625      B. 0.03125  
C. 0.0078125    D. None of these

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Here is the answer and explanation

**Answer :** Option B

**Explanation :**

Divide by 2 to get the next term

27. Complete the series 20, 19, 17, ..., 10, 5

- A. 15                      B. 16  
C. 13                      D. 14

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**Answer :** Option D

**Explanation :**

$$20 - 1 = 19$$

$$19 - 2 = 17$$

$$17 - 3 = 14$$

$$14 - 4 = 10$$

$$10 - 5 = 5$$

28. Which fraction will come next,  $\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{7}{16}, ?$

- A.  $\frac{9}{32}$                       B.  $\frac{9}{30}$   
C.  $\frac{9}{28}$                       D.  $\frac{11}{32}$

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Here is the answer and explanation

**Answer :** Option A

**Explanation :**

Numerators are getting increased by 2. i.e., numerators goes like 1,3,5,7,...

Hence, next numerator =  $7+2 = 9$

Denominators are getting multiplied by 2. i.e., denominators goes like 2,4,8,16,...

Hence, next denominator =  $16 \times 2 = 32$

So, the next fraction is  $\frac{9}{32}$

29. 4, 10, (?), 82, 244, 730

- A. 26                      B. 28  
C. 40                      D. 48

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**Answer :** Option B

**Explanation :**

$$4 \times 3 - 2 = 10$$

$$10 \times 3 - 2 = 28$$

$$28 \times 3 - 2 = 82$$

$$82 \times 3 - 2 = 244$$

$$244 \times 3 - 2 = 730$$

30. Complete the series 95, 115.5, 138, ..., 189

- A. 160.5                      B. 162.5  
C. 164.5                      D. 166.5

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**Answer :** Option B

**Explanation :**

$$95 + 20.5 = 115.5$$

$$115.5 + 22.5 = 138$$

$$138 + 24.5 = 162.5$$

$$162.5 + 26.5 = 189$$