

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

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

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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option D

Explanation :

We	have	two	series	here
34,	37,	40,	43,	...
7,	14,	28,	...	(Increase by 3)
			(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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Here is the answer and explanation

Answer : Option A

Explanation :

The series is 1^2 , 2^2 , 3^2 , 4^2 , 5^2 , 6^2 , 7^2 , ...

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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Here is the answer and explanation

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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Here is the answer and explanation

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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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option D

Explanation :

Numbers	are	alternatively	multiplied	by	2	and	increased	by	3
5		×	2		=				10
10		+	3		=				13
13		×	2		=				26
26		+	3		=				29
29		×	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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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option B

Explanation :

4							
4	×	2	-	3	=	5	
5	×	2	-	3	=	7	
7	×	2	-	3	=	11	
11	×	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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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option A

Explanation :

8	×	3	=	24
24	÷	2	=	12
12	×	3	=	36
36	÷	2	=	18
18	×	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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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option B

Explanation :

2	×	-3	=	-6
-6	×	-3	=	18
18	×	-3	=	-54
-54	×	-3	=	162

$162 \times -3 = -486$

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

A. 61 B. 72

C. 64 D. 70

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Here is the answer and explanation

Answer : Option B

Explanation :

The pattern is 1×2 , 2×3 , 3×4 , 4×5 , 5×6 , 6×7 , 7×8 .

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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Here is the answer and explanation

Answer : Option A

Explanation :

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		

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

A. 16 B. 8

C. 18 D. 12

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Here is the answer and explanation

Answer : Option A

Explanation :

The pattern is 14^2 , 12^2 , 10^2 , 8^2 , 6^2 , ...

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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Here is the answer and explanation

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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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option B

Explanation :

220

220	-	2	=	218
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218	-	4	=	214
-----	---	---	---	-----

214	-	6	=	208
-----	---	---	---	-----

208	-	8	=	200
-----	---	---	---	-----

200	-	10	=	190
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$190 - 12 = 178$

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

A. 1800 B. 2200

C. 2800 D. 3158

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Here is the answer and explanation

Answer : Option D

Explanation :

12

12	×	3	+	2	=	38
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38	×	3	+	2	=	116
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116	×	3	+	2	=	350
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350	×	3	+	2	=	1052
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$1052 \times 3 + 2 = 3158$

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

A. 502 B. 521

C. 559 D. 611

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Here is the answer and explanation

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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Here is the answer and explanation

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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Here is the answer and explanation

Answer : Option D

Explanation :

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

16384				
16384	÷	2	=	8192
8192	÷	4	=	2048
2048	÷	8	=	256
256	÷	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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Here is the answer and explanation

Answer : Option A

Explanation :

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

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

A. 1521 B. 1609

C. 1307 D. 1701

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Here is the answer and explanation

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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Here is the answer and explanation

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, 12,34,58,716,?

A. 932

B. 930

C. 928

D. 1132

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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 932

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

A. 26 B. 28

C. 40 D. 48

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Here is the answer and explanation

Answer : Option B

Explanation :

4	×	3	-	2	=	10
10	×	3	-	2	=	28
28	×	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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Here is the answer and explanation

Answer : Option B

Explanation :

95	+	20.5	=	115.5
115.5	+	22.5	=	138
138	+	24.5	=	162.5
162.5 + 26.5 = 189				