SBI PO Level Number Series Questions

Instructions

For the following questions answer them individually

Question 1

What should come in the place of ? in the following series?

12, 72, 240, 600, ?

A   1270

B   1260

C   1290

D   1296

E   1236

   Answer: B

Explanation:
$2^4 - 2^2 = 16 - 4 = 12$
$3^4 - 3^2 = 81 - 9 = 72$
$4^4 - 4^2 = 256 - 16 = 240$
$5^4 - 5^2 = 625 - 25 = 600$
$6^4 - 6^2 = 1296 - 36 = 1260$
Therefore, option B is the right answer.

Instructions

What should come in the place of ? in the following series?

Question 2

641, 643, 647, 653, 659, 661, ?

A   663

B   667

C   671

D   673

E   669

   Answer: D

Explanation:
The given series consists of prime numbers from 641.
663 is divisible by 3.
665 is divisible by 5.
667 is divisible by 23.
669 is divisible by 3.
671 is divisible by 11.
673 is the next prime number after 661. Therefore, option D is the right answer.

Instructions

For the following questions answer them individually

Question 3

What should come in the place of ? in the following series?

12, 84, 21, 77, 28, 68, 33, ?

A 55

B 56

C 57

D 58

E 59

   Answer: C

Explanation:
The given series is composed of 2 series.
12 ,21, 28, 33
12 + 9 = 21
21 + 7 = 28
28 + 5 = 33

84,77,68,?

84-7 = 77
77-9 = 68
68 - 11 = 57

Therefore, option C is the right answer.

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Instructions

What should come in the place of ? in the following series?

Question 4

51, 52, 106, 321, 1288, ?

A 6445

B 6420

C 6325

D 6540

E 6550

   Answer: A

Explanation:
51*1 + 1 = 52
52*2 + 2 = 104+2 = 106
106*3 + 3 = 318+3 = 321
321*4 + 4 = 1284+4 = 1288
1288*5 + 5 = 6440+5 = 6445

Therefore, option A is the right answer.

Question 5

19, 27, 46, 73, 119, ?

A   182

B   172

C   187

D   202

E   192

   Answer: E

Explanation:
19 + 27 = 46
46 + 27 = 73
73 + 46 = 119
119 + 73 = 192

Therefore, option E is the right answer.

Instructions

What should come in the place of ? in the following series?

Question 6

254, 128, 130, 198, 400, ?

A   995

B   985

C   1050

D   1025

E   1005

   Answer: E

Explanation:
254*0.5 + 1 = 127+1=128
128*1 + 2 = 128 + 2 = 130
130*1.5 + 3 = 195+3 = 198
198*2 + 4 = 396+4 = 400
400*2.5 + 5 = 1005

Therefore, option E is the right answer.

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Question 7

2196, 2743, 3374, 4095, ?

A   4912

B   4913

C   4914

D 4911

E 4915

   Answer: A

Explanation:
$13^3 - 1 = 2197 - 1 = 2196$
$14^3 - 1 = 2744 - 1 = 2743$
$15^3 - 1 = 3375 - 1 = 3374$
$16^3 - 1 = 4096 - 1 = 4095$
$17^3 - 1 = 4913 - 1 = 4912$

Therefore, option A is the right answer.

Question 8

34, 53 ,91, 148, 224 ?

A 296

B 345

C 262

D 379

E 319

   Answer: E

Explanation:
34 + 19 = 53
53 + 38 = 91
91 + 57 = 148
148 + 76 = 224
224 + 95 = 319

Therefore, option E is the right answer.

Question 9

52, 53, 49, 58, 42, 67, ?

A 35

B 36

C 31
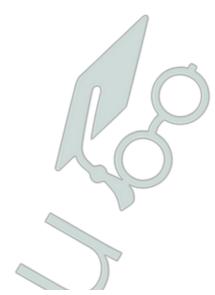
D 103

E 42

   Answer: C

Explanation:
52 + 1 = 53
53 - 4 = 49
49 + 9 = 58
58 - 16 = 42
42 + 25 = 67
67 - 36 = 31

Therefore, option C is the right answer.

Question 10

62, 64, 67, 72, 79, 90, 103, ?

A 118

B 122

C 125

D 120

E 117

   Answer: D

Explanation:
The difference between 2 consecutive terms in the series is a prime number.

62 + 2 = 64
64 + 3 = 67
67 + 5 = 72
72 + 7 = 79
79 + 11 = 90
90 + 13 = 103
103 + 17 = 120

Therefore, option D is the right answer.

Instructions

Find the missing number in the following series.

Question 11

2, 6, 12, 20, ?

A 30

B 28

C 32

D 24

E 36

   Answer: A

Explanation:
First term = $1^2 + 1 = 2$
Second term = $2^2 + 2 = 6$
Third term = $3^2 + 3 = 12$
Fourth term = $4^2 + 4 = 20$
So, fifth term = $5^2 + 5 = 30$
Hence, option A is the correct answer.

Question 12

6, 24, 60, 120, ?

A 180

B 200

C 210

D 256

E 196

   Answer: C

Explanation:
First term $= 1 * 2 * 3 = 6$
Second term $= 2 * 3 * 4 = 24$
Third term $= 3 * 4 * 5 = 60$
Fourth term $= 4 * 5 * 6 = 120$
So, fifth term $= 5 * 6 * 7 = 210$
Hence, option C is the correct answer.

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Question 13

10, 7.5, 5.5, 4, 3, ?

A 1

B 2.5

C 1.5

D 0.5

E 2.25

   Answer: B

Explanation:
First term $= 10$
Second term $= 10 - 2.5 = 7.5$
Third term $= 7.5 - 2 = 5.5$
Fourth term $= 5.5 - 1.5 = 4$
Fifth term $= 4 - 1 = 3$
So, sixth term $= 3 - 0.5 = 2.5$
Hence, option B is the correct answer.

Question 14

5, 7.5, 15, 37.5, ?

A 75

B 127.5

C 112.5

D 87.5

E 62.5

   Answer: C

Explanation:

First term = $5*1 = 5$
Second term = $5*1.5 = 7.5$
Third term = $7.5*2 = 15$
Fourth term = $15*2.5 = 37.5$
So, fifth term = $37.5*3 = 112.5$
Hence, option C is the correct answer.

Question 15

1, 8, 9, 64, 25, ?

A 216

B 169

C 81

D 156

E 64

   Answer: A

Explanation:
First term = $1^2 = 1$
Second term = $2^3 = 8$
Third term = $3^2 = 9$
Fourth term = $4^3 = 64$
Fifth term = $5^2 = 25$
So, sixth term = $6^3 = 216$
Hence, option A is the correct answer.

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Instructions

Find the missing number in the following series.

Question 16

7, 14, 42, 168, ?

A 840

B 560

C 720

D 660

E 600

   Answer: A

Explanation:
First term = $7*1 = 7$
Second term = $7*2 = 14$
Third term = $14*3 = 42$
Fourth term = $42*4 = 168$
So, fifth term = $168*5 = 840$
Hence, option A is the correct answer.

Question 17

5, 25, 61, 113, ?

A   179

B   200

C   181

D   157

E   191

   Answer: C

Explanation:
First term = $1^2 + 2^2 = 5$
Second term = $3^2 + 4^2 = 25$
Third term = $5^2 + 6^2 = 61$
Fourth term = $7^2 + 8^2 = 113$
So, fifth term = $9^2 + 10^2 = 181$
Hence, option C is the correct answer.

Question 18

5, 4, 2, -1, ?

A   -3

B   -5

C   5

D   -4.5

E   -6

   Answer: B

Explanation:
First term = 3
Second term = $5 - 1 = 4$
Third term = $4 - 2 = 2$
Fourth term = $2 - 3 = -1$
So, fifth term = $-1 - 4 = -5$
Hence, option B is the correct answer.

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Question 19

2, 12, 36, 80, ?

A   120

B   150

C   160

D   100

E   144

   Answer: B

Explanation:
First term = $1^2 + 1^3 = 2$
Second term = $2^2 + 2^3 = 12$
Third term = $3^2 + 3^3 = 36$
Fourth term = $4^2 + 4^3 = 80$
So, fifth term = $5^2 + 5^3 = 150$
Hence, option B is the correct answer.

Question 20

17, 19, 16, 20, 15, ?

A   21

B   14

C   20

D   18

E   19

   Answer: A

Explanation:
First term = 17
Second term = $17 + 2 = 19$
Third term = $19 - 3 = 16$
Fourth term = $16 + 4 = 20$
Fifth term = $20 - 5 = 15$
So, sixth term = $15 + 6 = 21$
Hence, option A is the correct answer.

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