NUMBER SERIES

150+ QUESTION WITH DETAILED SOLUTION

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32, ?, 1024, 2048, 2048
1. 324
2. 256
3. 224
4. 326
5. 274

Answer – **2. 256**
Explanation :
32 * 8 = 256
256 * 4 = 1024
1024 * 2 = 2048

- **9, 5, 6, 10.5, 23 ?**

1. 50
2. 65
3. 70
4. 55
5. 60

Answer – **5. 60**
Explanation :
9 * 0.5 + 0.5 = 5
5 * 1 + 1 = 6
6 * 1.5 + 1.5 = 10.5
10.5 * 2 + 2 = 23
23 * 2.5 + 2.5 = 60

- **17, 98, 26, ?, 35, 80**

1. 79
2. 69
3. 89
4. 59
5. 49

Answer – **3. 89**
Explanation :
26 -17 = 9; 35 – 26 = 9
98 – 9 = 89

- **2, 17, 89, 359, 1079, ?**

1. 2143
2. 2152
3. 2169
4. 2159
5. 2148

Answer – 4. 2159
Explanation :
2 * 6 + 5 = 17
17 * 5 + 4 = 89
89 * 4 + 3 = 359
359 * 3 + 2 = 1079
1079 * 2 + 1 = 2159

- **7, 4.5 ,5.5, 12, 49,?**

1.393
2.351
3.362
4.375
5.364

Answer – **1.393**
Explanation :
7 × 0.5 + 1 = 4.5.
4.5 × 1 + 1 = 5.5.
5.5 × 2 + 1 = 12.
12 × 4 + 1 = 49.
49 × 8 + 1 = 393.

- **7, 7, 13, 37, 97, ?**

1. 237
2. 247
3. 217
4. 227
5. 257

Answer – **3. 217**
Explanation :
$7 + 1^3 – 1 = 7$
$7 + 2^3 – 2 = 13$
$13 + 3^3 – 3 = 37$

- **1, 20, 58, 134, 286, ?**

1.600
2.590
3.580
4.570
5.560

Answer – **2.590**
Explanation :
1 * 2 + 18 = 20
20 * 2 + 18 = 58

58 * 2 + 18 = 134
134 * 2 + 18 = 286

- **3, 5, 15, 45, 113, ?**

1.253
2.263
3.243
4.651
5.655

Answer – **3.243**
Explanation :
$3 * 1^3 + 1 = 5$
$5 * 2^3 + 2 = 15$
$15 * 3^3 + 3 = 45$
$45 * 4^3 + 4 = 113$

- **3.25, 6.5, 19.5, 78, 390, ?**

1.2140
2.2350
3.2670
4.2340
5.2250

Answer – **4.2340**
Explanation :
3.25 * 2 = 6.5
6.5 * 3 = 19.5
19.5 * 4 = 78

- **68, 117, 61, 124, 54, ?**

1.141
2.121
3.151
4.131
5.111

Answer – **4.131**
Explanation :
68 – 7 = 61; 61 – 7 = 54
124 + 7 = 131

- **4, 5, 6, 14, ?, 100.5**

1. 32.5
2. 47.5
3. 67.5
4. 37.5
5. 27.5

Answer – **1. 32.5**
Explanation :
4 * 1 + 1 = 5
5 * 1.5 – 1.5= 6
6 * 2 + 2 = 14
14 * 2.5 – 2.5 = 32.5
32.5 * 3 + 3 = 100.5

- **8 4 4 8 32 ?**

1.354
2.384
3.294
4.234
5.256

Answer – **5.256**
Explanation :
8 * 0.5 = 4
4 * 1 = 4
4 * 2 = 8
8 * 4 = 32
32 * 8 = 256

- **2, 2, 7, ?, 87, 342**

1.21
2.26
3.23
4.24
5.22

Answer – **5.22**
Explanation :
$2 + 1^2 – 1 = 2$
$2 + 2^2 + 1= 7$
$7 + 4^2 – 1= 22$

- **6, 8, 8, 22, ?, 151**

1.43
2.42
3.44
4.47
5.48

Answer – **4.47**
Explanation :
6 * 1 + 2 = 8
8 * 1.5 – 4 = 8
8 * 2 + 6 = 22
22 * 2.5 – 8 = 47
47 * 3 + 10 = 151

- **4, ?, 14, 40, 88, 170**

1.9
2.5
3.6
4.7
5.2

Answer – **3.6**
Explanation :
$4 + 1^2 + 1 = 6$
$6 + 3^2 – 1 = 14$
$14 + 5^2 + 1 = 40$……..

- **6, 6, 7, ?, 91, 463**

1.33
2.43
3.38
4.25
5.44

Answer – **4.25**
Explanation :
6*1 – 1 + 1 = 6
6*2 – 2 – 3 = 7
7*3 – 1 + 5 = 25

- **2, 5, 17, 50, 122, ?**

1.252
2.258
3.257
4.225
5.242

Answer – **3.257**
Explanation :
$2 + 1^3 + 2 = 5$
$5 + 2^3 + 4 = 17$
$17 + 3^3 + 6 = 50$
$50 + 4^3 + 8 = 122$

- **2, 9, 39, 161, ?, 2613**

1.675
2.670
3.665
4.651
5.655

Answer – **4.651**
Explanation :
2 * 4 + 1 = 9
9 * 4 + 3 = 39
39 * 4 + 5 = 161
161 * 4 + 7 = 651
651 * 4 + 9 = 2613

- **5, ?, 20, 34, 76, 142**

1.4
2.5
3.7
4.8
5.9

Answer – **4.8**
Explanation :
5*2 – 2 = 8
8*2 + 4 = 20
20*2 – 6 = 34

- **5, 6, 8, 30, 136, ?**

1.645
2.680
3.650
4.690
5.620

Answer – **1.645**
Explanation :
5 * 1 + 1 = 6
6 * 2 – 2 = 10
10 * 3 + 3 = 33
33 * 4 – 4 = 128
128 * 5 + 5 = 645

- **4, 4, 6, 12, 30, ?**

1. 97
2. 92

3. 95
4. 98
5. 90

Answer – **5. 90**
Explanation :
4 * 1 = 4
4 * 1.5 = 6
6 * 2 = 12
12 * 2.5 = 30
30 * 3 = 90

- **10 5 5 10 40 ?**

1.350
2.320
3.360
4.370
5.380

Answer – **2.320**
Explanation :
10 * 0.5 = 5
5 * 1 = 5
5 * 2 = 10
10 * 4 = 40
40 * 8 = 320

- **3, 5, ?, 27, 92, 349**

1.12
2.18
3.15
4.10
5.11

Answer – **4.10**
Explanation :
3 + 1^2 + 1 = 5
5 + 2^2 + 1= 10
10 + 4^2 + 1= 27

- **1, 2, 6, 17, ?, 157.5**

1.40.5
2.42.5
3.49.5
4.51.5
5.50.5

Answer – **3.49.5**
Explanation :
1 * 1 + 1 = 2
2* 1.5 + 3 = 6
6 * 2 + 5 = 17
17 * 2.5 + 7 = 49.5
49.5 * 3 + 9 =157.5

- **7, ?, 19, 45, 95, 177**

1.8
2.5
3.6
4.7
5.9

Answer – **5.9**
Explanation :
7 + 1^2 + 1= 9
9 + 3^2 + 1= 19
19 + 5^2 + 1= 45……..

- **9, 8, 15, ?, 175, 874**

1.42
2.24
3.38
4.44
5.14

Answer – **4.44**
Explanation :
9*1 – 1 = 8
8*2 – 1 = 15
15*3 – 1 = 44

- **2, 2, 12, 36, 104, ?**

1.232
2.221
3.223
4.224
5.242

Answer – **4.224**
Explanation :
2 + 1^3 – 1 = 2
2 + 2^3 + 2 = 12
12 + 3^3 – 3 = 36
36 + 4^3 + 4 = 104

- **4, 15, 63, 247, 995, ?**

1.3975
2.3973
3.3965
4.3971
5.3955

Answer – **4.3971**
Explanation :
4 * 4 – 1 = 15
15 * 4 + 3 = 63
63 * 4 – 5 = 247
247 * 4 + 7 = 995
995 * 4 – 9 = 3971

- **3, ?, 7, 9, 11, 13**

1.6
2.5
3.7
4.8
5.9

Answer – **2.5**
Explanation :
3*2 – 1 = 5
5*2 – 3 = 7
7*2 – 5 = 9

- **6, 8, 12, 42, 160, ?**

1.870
2.840
3.850
4.810
5.820

Answer – **4.810**
Explanation :
6 * 1 + 2 = 8
8 * 2 – 4 = 12
12 * 3 + 6 = 42
42 * 4 – 8 = 160
160 * 5 + 10 = 810

- **8, 9, 15, 32, ?, 250.5**

1. 82.5
2. 47.5
3. 62.5
4. 37.5
5. 64.5

Answer – **1. 82.5**
Explanation :
8 * 1 + 1 = 9
9 * 1.5 + 1.5= 15
15 * 2 + 2 = 32
32 * 2.5 + 2.5 = 82.5
82.5 * 3 + 3 = 250.5

- **12 7 9 22 96 ?**

1.754
2.784
3.794
4.734
5.744

Answer – **2.784**
Explanation :
12 * 0.5 + 1 = 7
7 * 1 + 2 = 9
9 * 2 + 4 = 22
22 * 4 + 8 = 96
96 * 8 + 16 = 784

- **2, 4, 7, ?, 87, 344**

1.38
2.24
3.56
4.44
5.62

Answer – **2.24**
Explanation :
$2 + 1^2 + 1 = 4$
$4 + 2^2 – 1 = 7$
$7 + 4^2 + 1 = 24$
$24 + 8^2 – 1 = 87$
$87 + 16^2 + 1 = 344$

- **6, 4, 10, 14, 43, ?**

1.119
2.127
3.114

4.141
5.132

Answer – **1.119**
Explanation :
6 * 1 – 2 = 4
4 * 1.5 + 4 = 10
10 * 2 – 6 = 14
14 * 2.5 + 8 = 43
43 * 3 – 10 = 119

- **4, ?, 14, 40, 88, 170**

1.9
2.5
3.6
4.7
5.2

Answer – **3.6**
Explanation :
4 + 1^2 + 1 = 6
6 + 3^2 – 1 = 14
14 + 5^2 + 1 = 40
40 + 7^2 – 1 = 88
88 + 9^2 + 1 = 170

- **6, 6, 7, ?, 91, 463**

1.33
2.43
3.38
4.25
5.44

Answer – **4.25**
Explanation :
6*1 – 1 + 1 = 6
6*2 – 2 – 3 = 7
7*3 – 1 + 5 = 25
25*4 – 2 – 7 = 91
91*5 – 1 + 9 = 463

- **2, 5, 9, 42, 98, ?**

1.233
2.218
3.221
4.225
5.242

Answer – **1.233**
Explanation :
2 + 1^3 + 2 = 5
5 + 2^3 – 4 = 9
9 + 3^3 + 6 = 42
42 + 4^3 – 8 = 98
98 + 5^3 + 10 = 233

- **3, 11, 47, 183, ?, 2947**

1.775
2.770
3.765
4.783
5.739

Answer – **5.739**
Explanation :
3 * 4 – 1 = 11
11 * 4 + 3 = 47
47 * 4 – 5 = 183
183 * 4 + 7 = 739
739 * 4 – 9 = 2947

- **2, ?, 8, 10, 28, 46**

1.2
2.5
3.7
4.8
5.9

Answer – **1.4**
Explanation :
2*2 – 2 = 2
2*2 + 4 = 8
8*2 – 6 = 10
10*2 + 8 = 28
28*2 – 10 = 46

- **4, 6, 8, 30, 112, ?**

1.540
2.580
3.550
4.590
5.570

Answer – **5.570**
Explanation :
4 * 1 + 2 = 6
6 * 2 – 4 = 8
8 * 3 + 6 = 30
30 * 4 – 8 = 112
112 * 5 + 10 = 570

- **5, 12, ?, 41, 87, 214**

1.19
2.35
3.22
4.26
5.None of these

Answer – **3.22**
Explanation :
5+7 = 12
12+(7+3=10) =22
22+(10+9=19) = 41
41+(19+27=46) = 87
87+(46+81=127) = 214

- **14, ?, 13, 17.5, 21.75**

1.10
2.12
3.12.5
4.13.25
5.None of these

Answer – **2.12**
Explanation :
14/2 + 5 = 12
12/2 +7 = 13
13/2 + 11= 17.5
17.5/2+13 = 21.75

- **15, 5, 4.5, 5.8.7.9, ?**

1.9.6
2.11.42
3.12.23
4.10.74
5.None of these

Answer – **4.10.74**
Explanation :
15*0.2 +2 = 5
5*0.3+3 = 4.5
4.5*0.4+4 = 5.8
5.8*0.5+5 =7.9
7.9*0.6+6 = 10.74

- **107, 106, 52, 16.3 , ?**

1.3.075
2.2.625
3.1.916
4.0.416
5.None of these

Answer – **1.3.075**
Explanation :
107-1/1 = 106
106-2/2 = 52
52-3/3 = 16.3
16.3-4/4 = 3.075

- **29, ?, 79, 131, 201**

1.61
2.76
3.37
4.45
5.None of these

Answer – **4.45 Explanation :**
29+(18*1-2) = 29+16 = 45
45+(18*2-2) = 45+34 = 79
79+(18*3-2) = 79+52 = 131
131+(18*4-2) = 131+70 = 201

- **?, 6, 10.5, 23, 60**

1.7
2.5
3.4
4.6
5.None of these

Answer – **2.5**
Explanation :
9*0.5+0.5 = 5
5*1+1 = 6
6*1.5+1.5 = 10.5
10.5*2+2 = 23
23*2.5+2.5 = 60

- **211, 90, 171, 122, 147, 138, ?**

1.152
2.176
3.139
4.180
5.None of these

Answer – **3.139**
Explanation :
211-11^2 = 90
90+9^2 = 171
171-7^2 = 122
122+5^2 = 147
147-3^2 = 138
138+1^2= 139

- **1256, 318, ?, 163, 328, 86**

1.338
2.836
3.368
4.638
5.None of these

Answer – **4.638**
Explanation :
1256/4 =314+4 = 318
318*2 = 636+2 = 638
638/4 = 159+4 = 163
163*2 =326+2 = 328
328/4 = 82+4 = 86

- **37, 54, 88, ?, 207**

1.139
2.213
3.193
4.391
5.None of these

Answer – **1.139**
Explanation :
37+17 = 54
54+2*17 = 88
88+3*17 =139
139+4*17 = 207

- **13, 29, 48, 70, 95, ?**

1.132
2.121
3.113
4.123
5.None of these

Answer – **4.123**
Explanation :
13+(9+7) = 29
29+(9+10) = 48
48+(9+13) =70
70+(9+16) = 95
95+(9+19) = 123

- **2, 3, 6, 14, ?, 115.5**

1. 52.5
2. 47.5
3. 67.5
4. 37.5
5. 27.5

Answer – **4. 37.5**
Explanation :
2 * 1 + 1 = 3
3 * 1.5 + 1.5= 6
6 * 2 + 2 = 14
14 * 2.5 + 2.5 = 37.5
37.5 * 3 + 3 = 115.5

- **12 13 28 85 ? 1711**

1.354
2.342
3.294
4.234
5.244

Answer – **2.342**
Explanation :
12*1 – 1 + 2 = 13
13*2 – 2 + 4 = 28
28*3 – 1 + 2 = 85
85*4 – 2 + 4 = 342
342*5 – 1 + 2 = 1711

- **3, 5, 10, ?, 92, 349**

1.38
2.27

3.56
4.44
5.62

Answer – **2.27**
Explanation :
$3 + 1^2 + 1 = 5$
$5 + 2^2 + 1 = 10$
$10 + 4^2 + 1 = 27$

- **5, 8, 15, 37, ?, 309.5**

1.99.5
2.97.5
3.94.5
4.98.5
5.96.5

Answer – **1.99.5**
Explanation :
5 * 1 + 2 + 1 = 8
8 * 1.5 + 4 – 1 = 15
15 * 2 + 6 + 1 = 37
37 * 2.5 + 8 – 1 = 99.5
99.5 * 3 + 10 + 1 = 309.5

- **3, ?, 13, 39, 87, 169**

1.9
2.5
3.6
4.7
5.2

Answer – **2.5**
Explanation :
$3 + 1^2 + 1 = 5$
$5 + 3^2 – 1 = 13$
$13 + 5^2 + 1 = 39$……..

- **6, 7, 16, ?, 218, 1099**

1.33
2.53
3.38
4.24
5.44

Answer – **2.53**
Explanation :
6*1 – 1 + 2 = 7
7*2 – 2 + 4 = 16
16*3 – 1 + 6 = 53

- **3, 2, 14, 35, 107, ?**

1.232
2.218
3.222
4.225
5.242

Answer – **3.222**
Explanation :
$3 + 1^3 – 2 = 2$
$2 + 2^3 + 4 = 14$
$14 + 3^3 – 6 = 35$
$35 + 4^3 + 8 = 107$

- **1, 3, 15, 55, ?, 899**

1.275
2.227
3.265
4.283
5.255

Answer – **2.227**
Explanation :
1 * 4 – 1 = 3
3 * 4 + 3 = 15
15 * 4 – 5 = 55
55 * 4 + 7 = 227
227 * 4 – 9 = 899

- **2, ?, 8, 10, 28, 46**

1.2
2.5
3.7
4.8
5.9

Answer – **1.2**
Explanation :
2*2 – 2 = 2
2*2 + 4 = 8
8*2 – 6 = 10

- **4, 6, 6, 8, 112, ?**

1.540
2.580
3.550
4.570
5.520

Answer – **4.570**
Explanation :
4 * 1 + 2 = 6
6 * 2 – 4 = 8
8 * 3 + 6 = 30
30 * 4 – 8 = 112
112 * 5 + 10 = 570

- **4, 6, 8, 30, ?, 570**

1. 152
2. 112
3. 115
4. 175
5. 275

Answer – **2. 112**
Explanation :
4 * 1 + 2 = 6
6 * 2 – 4 = 8
8 * 3 + 6 = 30
30 * 4 – 8 = 112
112 * 5 + 10 = 570

- **12 7 15 57 292 ?**

1.2354
2.2384
3.2394
4.2461
5.2441

Answer – **4.2461**
Explanation :
12 * 0.5 + 1^3= 7
7 * 1 + 2^3 = 15
15 * 2 + 3^3 = 57
57 * 4 + 4^3 = 292
292 * 8 + 5^3= 2461

- **2, 4, 11, ?, 103, 368**

1.38
2.26
3.56
4.44
5.32

Answer – **5.32**
Explanation :
2 + 1^2 + 1 = 4
4 + 2^2 + 3= 11
11 + 4^2 + 5= 32

- **4, 6, 13, 32, ?, 274**

1.83
2.82
3.84
4.88
5.80

Answer – **4.88**
Explanation :
4 * 1 + 2 = 6
6 * 1.5 + 4 = 13
13 * 2 + 6 = 32
32 * 2.5 + 8 = 88
88 * 3 + 10 = 274

- **4, ?, 18, 48, 104, 194**

1.9
2.5
3.6
4.7
5.2

Answer – **3.6**
Explanation :
4 + 1^2 + 1 = 6
6 + 3^2 + 3 = 18
18 + 5^2 + 5 = 48……..

- **6, 7, 16, ?, 198, 991**

1.33
2.43
3.49
4.24
5.44

Answer – **3.49**
Explanation :
6*1 – 1 + 2 = 7
7*2 – 2 + 4 = 16
16*3 – 1 + 2 = 49

- **3, 2, 14, 35, 107, ?**

1.232
2.218
3.222
4.225
5.242

Answer – **3.222**
Explanation :
3 + 1^3 – 2 = 2
2 + 2^3 + 4 = 14
14 + 3^3 – 6 = 35
35 + 4^3 + 8 = 107

- **2, 9, 48, 235, ?, 5901**

1.1175
2.1182
3.1165
4.1183
5.1155

Answer – **2.1182**
Explanation :
2 * 5 – 1 = 9
9 * 5 + 3 = 48
48 * 5 – 5 = 235
235 * 5 + 7 = 1182
1182 * 5 – 9 = 5901

- **2, ?, 8, 10, 28, 46**

1.2
2.5
3.7
4.8
5.9

Answer – **1.2**
Explanation :
2*2 – 2 = 2
2*2 + 4 = 8
8*2 – 6 = 10

- **5, 6, 9, 32, 121, ?**

1.625
2.675
3.655
4.615
5.635

Answer – **4.615**
Explanation :
5 * 1 + 1 = 6
6 * 2 – 3 = 9
9 * 3 + 5 = 32
32 * 4 – 7 = 121
121 * 5 + 10 = 615

-
4, 5, 9, 20, ?, 160.5

1. 52.5
2. 47.5
3. 67.5
4. 37.5
5. 27.5

Answer – **1. 52.5**
Explanation :
4 * 1 + 1 = 5
5 * 1.5 + 1.5= 9
9 * 2 + 2 = 20
20 * 2.5 + 2.5 = 52.5
52.5 * 3 + 3 = 160.5

- **12 6 6 12 48 ?**

1.354
2.384
3.294
4.234
5.244

Answer – **2.384**
Explanation :
12 * 0.5 = 6
6 * 1 = 6
6 * 2 = 12

12 * 4 = 48
48 * 8 = 384

- **2, 4, 9, ?, 91, 348**

1.38
2.26
3.56
4.44
5.62

Answer – **2.26**
Explanation :
$2 + 1^2 + 1 = 4$
$4 + 2^2 + 1 = 9$
$9 + 4^2 + 1 = 26$

- **6, 8, 16, 38, ?, 319**

1.103
2.182
3.104
4.171
5.180

Answer – **1.103**
Explanation :
6 * 1 + 2 = 8
8* 1.5 + 4 = 16
16 * 2 + 6 = 38
38 * 2.5 + 8 = 103
103 * 3 + 10 = 319

- **4, ?, 16, 42, 92, 174**

1.9
2.5
3.6
4.7
5.2

Answer – **3.6**
Explanation :
$4 + 1^2 + 1 = 6$
$6 + 3^2 + 1 = 16$
$16 + 5^2 + 1 = 42$……..

- **6, 6, 13, ?, 177, 893**

1.33
2.43
3.38
4.24
5.44

Answer – **2.43**
Explanation :
6*1 – 1 + 1 = 6
6*2 – 2 + 3 = 13
13*3 – 1 + 5 = 43

- **2, 1, 13, 34, 106, ?**

1.232
2.218
3.221
4.225
5.242

Answer – **3.221**
Explanation :
$2 + 1^3 – 2 = 1$
$1 + 2^3 + 4 = 13$
$13 + 3^3 – 6 = 34$
$34 + 4^3 + 8 = 106$

- **2, 7, 31, 119, ?, 1923**

1.475
2.470
3.465
4.483
5.455

Answer – **4.483**
Explanation :
2 * 4 – 1 = 7
7 * 4 + 3 = 31
31 * 4 – 5 = 119
119 * 4 + 7 = 483
483 * 4 – 9 = 1923

- **3, ?, 12, 18, 44, 78**

1.4
2.5
3.7
4.8
5.9

Answer – **1.4**
Explanation :
3*2 – 2 = 4
4*2 + 4 = 12
12*2 – 6 = 18

- **5, 7, 10, 36, 136, ?**

1.640
2.680
3.650
4.690
5.620

Answer – **4.690**
Explanation :
5 * 1 + 2 = 7
7 * 2 – 4 = 10
10 * 3 + 6 = 36
36 * 4 – 8 = 136
136 * 5 + 10 = 690

- **6, 7, 12, 26, ?, 205.5**

1. 57.5
2. 47.5
3. 67.5
4. 37.5
5. 27.5

Answer – **3. 67.5**
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

- **10 5 5 10 40 ?**

1.350
2.320
3.290
4.230
5.240

Answer – **2.320**
Explanation :
10 * 0.5 = 5
5 * 1 = 5
5 * 2 = 10
10 * 4 = 40
40 * 8 = 320

- **2, 4, 14, ?, 90, 172**

1.30
2.20
3.50
4.40
5.60

Answer – **4.40**
Explanation :
2 + 1^2 + 1 = 4
4 + 3^2 + 1= 14
14 + 5^2 + 1= 40

- **2, 4, 10, 26, ?, 229**

1.73
2.82
3.64
4.71
5.80

Answer – **1.73**
Explanation :
2 * 1 + 2 = 4
4* 1.5 + 4 = 10
10 * 2 + 6 = 26
26 * 2.5 + 8 = 73
73 * 3 + 10 = 229

- **4, ?, 26, 63, 128, 229**

1.9
2.5
3.6
4.7
5.2

Answer – **1.9**
Explanation :
4 + 2^2 + 1= 9
9 + 4^2 + 1= 26
26 + 6^2 + 1= 63……..

- **6, 5, 8, ?, 90, 449**

1.23
2.26
3.38
4.24
5.14

Answer – **1.23**
Explanation :
6*1 – 1 = 5
5*2 – 2 = 8
8*3 – 1 = 23

- **3, 2, 14, 35, 107, ?**

1.232
2.218
3.222
4.225
5.242

Answer – **3.222**
Explanation :
3 + 1^3 – 2 = 2
2 + 2^3 + 4 = 14
14 + 3^3 – 6 = 35
35 + 4^3 + 8 = 107

- **2, 5, 18, 49, 154, ?**

1.475
2.470
3.465
4.453
5.455

Answer – **4.453**
Explanation :
2 * 3 – 1 = 5
5 * 3 + 3 = 18
18 * 3 – 5 = 49
49 * 3 + 7 = 154
154 * 3 – 9 = 453

- **4, ?, 16, 26, 60, 110**

1.6
2.5
3.7
4.8
5.9

Answer – **1.6**
Explanation :
4*2 – 2 = 6
6*2 + 4 = 16
16*2 – 6 = 26

- **6, 8, 12, 42, 160, ?**

1.870
2.840
3.850
4.810
5.820

Answer – **4.810**
Explanation :
6 * 1 + 2 = 8
8 * 2 – 4 = 12
12 * 3 + 6 = 42
42 * 4 – 8 = 160
160 * 5 + 10 = 810

- **6, 6, 9, 18, 45, ?**

1.127
2.132
3.135
4.118
5.120

Answer – **3.135**
Explanation :
6 * 1 = 6
6 * 1.5 = 9
9 * 2 = 18
18 * 2.5 = 45
45 * 3 = 135

- **8 4 4 8 32 ?**

1.254
2.256
3.292
4.232
5.246

Answer – **2.256**
Explanation :
8 * 0.5 = 4
4 * 1 = 4
4 * 2 = 8
8 * 4 = 32
32 * 8 = 256

- **4, 6, 11, ?, 65, 130**

1.32
2.28
3.25
4.33
5.31

Answer – **2.28**
Explanation :
4 + 1^2 + 1 = 6
6 + 2^2 + 1= 11
11 + 4^2 + 1= 28

- **3, 4, 9, 23, ?, 202.5**

1.70.5
2.82.5
3.64.5
4.71.5
5.80.5

Answer – **3.64.5**
Explanation :
3 * 1 + 1 = 4
4* 1.5 + 3 = 9
9 * 2 + 5 = 23
23 * 2.5 + 7 = 64.5
64.5 * 3 + 9 = 202.5

- **8, ?, 20, 46, 96, 178**

1.10
2.15
3.16
4.17
5.12

Answer – **1.10**
Explanation :
8 + 1^2 + 1= 10
10 + 3^2 + 1= 20
20 + 5^2 + 1= 46……..

- **8, 7, 13, ?, 151, 754**

1.42
2.24
3.38
4.24
5.14

Answer – **3.38**
Explanation :
8*1 – 1 = 7
7*2 – 1 = 13
13*3 – 1 = 38

- **3, 3, 13, 37, 105, ?**

1.232
2.221
3.223
4.225
5.242

Answer – **4.225**
Explanation :
3 + 1^3 – 1 = 3
3 + 2^3 + 2 = 13
13 + 3^3 – 3 = 37
37 + 4^3 + 4 = 105

- **2, 7, 31, 119, 483, ?**

1.1975
2.1970
3.1965
4.1923
5.1955

Answer – **4.1923**
Explanation :
2 * 4 – 1 = 7
7 * 4 + 3 = 31
31 * 4 – 5 = 119
119 * 4 + 7 = 483
483 * 4 – 9 = 1923

- **4, ?, 11, 17, 27, 45**

1.6

2.5
3.7
4.8
5.9

Answer – **3.7**
Explanation :
4*2 – 1 = 7
7*2 – 3 = 11
11*2 – 5 = 17

- **8, 10, 16, 54, 208, ?**

1.1370
2.1340
3.1050
4.1210
5.1520

Answer – **3.1050**
Explanation :
8 * 1 + 2 = 10
10 * 2 – 4 = 16
16 * 3 + 6 = 54
54 * 4 – 8 = 208
208 * 5 + 10 = 1050

- **5, 6, 14, 45, 184, ?**

1.927
2.932
3.925
4.918
5.920

Answer – **3.925**
Explanation :
5 * 1 + 1 = 6
6 * 2 + 2 = 14
14 * 3 + 3 = 45
45 * 4 + 4 = 184
184 * 5 + 5 = 925

- **8 4 4 6 12 ?**

1.50
2.20
3.90
4.30
5.40

Answer – **4.30**
Explanation :
8 * 0.5 = 4
4 * 1 = 4
4 * 1.5 = 6
6 * 2 = 12
12 * 2.5 = 30

- **16, 21, ?, 48, 74, 111**

1.32
2.24
3.25
4.33
5.31

Answer – **5.31**
Explanation :
21 – 16 = 5
31 – 21 = 10
48 – 31 = 17
74 – 48 = 26; 10 – 5 = 5; 17 – 10 = 7; 26 – 17 = 9

- **8, 9, 15, 32, ?, 250.5**

1.70.5
2.82.5
3.68.5
4.71.5
5.80.5

Answer – **2.82.5Explanation :**
8 * 1 + 1 = 9
9 * 1.5 + 1.5 = 15
15 * 2 + 2 = 32
32 * 2.5 + 2.5 = 82.5
82.5 * 3 + 3 = 250.5

- **11, ?, 18, 35, 100, 357**

1.13
2.15
3.16
4.17
5.12

Answer – **1.13**
Explanation :
$11 + 1^2 + 1 = 13$
$13 + 2^2 + 1 = 18$
$18 + 4^2 + 1 = 35$……..

- **8, 7, 12, ?, 128, 635**

1.42
2.24
3.33
4.24
5.14

Answer – **3.33**
Explanation :
8*1 – 1 = 7
7*2 – 2 = 12
12*3 – 3 = 33

- **3, 3, 12, 38, 103, ?**

1.232
2.221
3.223
4.227
5.242

Answer – **4.227**
Explanation :
$3 + 1^3 – 1 = 3$
$3 + 2^3 + 1 = 12$
$12 + 3^3 – 1 = 38$
$38 + 4^3 + 1 = 103$

- **2, 5, 18, 49, 154, ?**

1.475
2.470
3.465
4.453
5.455

Answer – **4.453**
Explanation :
2 * 3 – 1 = 5
5 * 3 + 3 = 18
18 * 3 – 5 = 49
49 * 3 + 7 = 154
154 * 3 – 9 = 453

- **11, ?, 33, 45, 59, 77**

1.53
2.25
3.21
4.28
5.21

Answer – **5.21**
Explanation :
11*2 – 1 = 21
21*2 – 11 = 33
33*2 – 21 = 45

- **18, 20, 36, 114, 448, ?**

1.2370
2.2340
3.2250
4.2410
5.2520

Answer – **3.2250**
Explanation :
18 * 1 + 2 = 20
20 * 2 – 4 = 36
36 * 3 + 6 = 114
114 * 4 – 8 = 448
448 * 5 + 10 = 2250

- **124 , 96, 60, 50 , 28 , ?**

1.27
2.32
3.25
4.18
5.20

Answer – **1.27**
Explanation :
124/2 =62-2 = 60 96/2 = 48+2 = 50
60/2=30-2 = 28 50/2 = 25+2 = 27

- **37, 38, 58, ?, 293.5**

1.152
2.124
3.98

4.110
5.117

Answer – **5.117**
Explanation :
37*1+1 = 38
38*3/2 + 1 = 58
58*2+1 = 117
117*5/2+1 = 293.5

- **11, 18, ?, 159, 652**

1.48
2.54
3.75
4.63
5.91

Answer – **1.48**
Explanation :
11*1+(1*7) =11+7 = 18
18*2+(2*6) = 36+12 = 48
48*3+(3*5) = 144+15 = 159
159*4+(4*4) = 636+16 = 652

- **8,9, 11, 19, 67, ?**

1.514
2.354
3.438
4.451
5.414

Answer – **4.451Explanation :**
8+1*1 = 9
9+(1*2=2) = 11
11+(2*4=8) = 19
19+(8*6=48) = 67
67+(48*8=384) = 451

- **1650, ?, 50, 9.5, 1.17, -0.415**

1.1050
2.270
3.560
4.750
5.980

Answer – **2.270**
Explanation :
1650/6 – 5 = 275 – 5 = 270
270/5 -4 = 54-4 = 50
50/4 -3 = 12.5 -3 = 9.5
9.5/3 -2 = 3.17-2 = 1.17
1.17/2 -1 = 0.585-1 = -0.415

- **290, 360, ?, 528, 626**

1.442
2.424
3.222
4.444
5.440

Answer – **1.442**
Explanation :
17^2 = 289+1 = 290
19^2 =361-1 = 360
21^2 = 441+1 = 442
23^2 = 529-1 = 528
25^2 = 625+1 = 626

- **2, 4, 18, 44, 82, ?, 194**

1.132
2.121
3.123
4.114
5.142

Answer – **1.132**
Explanation :
2+2 =4
4+(2+12) = 18
18+(2+24) = 44
44+(2+36) = 82
82+(2+48) = 132
132+(2+60) = 194

- **785, 835, ?, 905, 925, 935**

1.875
2.970
3.865
4.940
5.855

Answer – **1.875**
Explanation :
785-5+55 = 835

835-4+44 = 875
875-3+33 = 905
905-2+22 = 925
925-1+11 = 935

- **312, ?, 39.625, 30.47, 31.47**

1.145.55
2.78.25
3.112.5
4.98
5.220.75

Answer – **2.78.25**
Explanation :
312*(0.25)+(0.25)= 78.25
78.25*(0.5)+(0.5) = 39.625
39.625*(0.75)+(0.75) =30.47
30.47*1+1 = 31.47

- **?, 104, 41.6. 24.96, 19.97**

1.370
2.630
3.350
4.410
5.520

Answer – **5.520**
Explanation :
520*1/5 =104
104*2/5= 41.6
41.6*3/5 = 24.96
24.96*4/5 = 19.97

- **6,6, 9, ?, 90, 540**

A.22.5
B.21
C.23.2
D.24.5
E.None of these

Answer – **1.22.5**
Explanation :
6*1 = 6
6*1.5 = 9
9*2.5 = 22.5
22.5*4 = 90
90*6 = 540

- **21, ?, 35, 57, 89, 131**

A.28
B.21
C.26
D.23
E.None of these

Answer – **4.23**
Explanation :
21+2 = 23
23+12 =35
35+22 = 57
57+32 =89
89+42 = 131

- **3, 14, 39, 103, 270, ?**

A.606
B.505
C.707
D.404
E.None of these

Answer – **3.707**
Explanation :
3+11= 14
14+(11+14 =25) =39
39+(25+39 = 64) = 103
103+(64+103 = 167) =270
270+(167+270=437) = 707

- **14, 18, ?, 458, 4458**

A.128
B.58
C.48
D.44
E.None of these

Answer – **2.58**
Explanation :
14+4 = 18
18+40 = 58
58+400 = 458
458+4000 = 4458

- **112, 113, 102, 213, ?**

A.899
B.-988
C.899
D.-898
E.None of these

Answer – **4.-898**
Explanation :
112+1 = 113
113-11 = 102
102+111 = 213
213-1111 = -898

- **221, 55, 224, 55, 236, ?, 257**

A.242
B.55
C.254
D.57.25
E.None of these

Answer – **4.57.25**
Explanation :
(221-1)/4 = 55
(55+1)*4 = 224
(224-4)/4 = 55
(55+4)*4 = 236
(236-7)/4 = 57.25
(57.25+7)*4 = 257

- **15, 80, 255, ?, 1295**

A.615
B.625
C.525
D.624
E.None of these

Answer – **4.624**
Explanation :
2^4 = 16-1 = 15
3^4 = 81-1 = 80
4^4 = 256-1 = 255
5^4 = 625-1 = 624
6^4 = 1296-1 = 1295

- **?, 45, 90, 88, 176, 178, 356**

A.52
B.39
C.43
D.65
E.None of these

Answer – **3.43**
Explanation :
43+2 = 45
45*2 = 90
90-2 = 88
88*2 = 176
176+2 = 178
178*2 = 356

- **68, 80, 98, 122, ?, 188**

A.134
B.152
C.122
D.148
E.None of these

Answer – **2.152**
Explanation :
68+12+0 = 80
80+12+6 =98
98+12+12 = 122
122+12+18 = 152
152+12+24 = 188

- **17, 10, 12, 20.5, ?**

A.44
B.51
C.37
D.63
E.None of these

Answer – **1.44**
Explanation :
17*0.5+1.5 = 10
10*1+2 = 12
12*1.5+2.5 = 20.5
20.5*2+3 = 44

- **5, 15, 65, 315, ?, 7815**

A. 1695
B. 1935

C. 1565
D. 1685
E. None of these

Answer – **C. 1565**
Explanation :
5 * 5 – 10 = 15
15 * 5 – 10 = 65
65 * 5 – 10 = 315
315 * 5 – 10 = 1565
1565 * 5 – 10 = 7815

- **8 18 28 90 356 ?**

A. 1782
B. 1892
C. 1652
D. 1662
E. None of these

Answer – **A. 1782**
Explanation :
* 1 + 10
* 2 – 8
* 3 + 6

- **2 12 52 162 332 ?**

A. 342
B. 366
C. 396
D. 291
E. None of these

Answer – **A. 342**
Explanation :
2 * 5 + 2 = 12
12 * 4 + 4 = 52
52 * 3 + 6 = 162

- **4 14 44 150 ? 3090**

A. 612
B. 632
C. 616
D. 618
E. None of these

Answer – **C. 616**
Explanation :
4 * 1 + 10 * 1 = 14
14 * 2 + 8 * 2 = 44
44 * 3 + 6 * 3 = 150
150 * 4 + 4 * 4 = 616
616 * 5 + 2 * 5 = 3090

- **2 51 87 112 128 137 ?**

A. 152
B. 131
C. 213
D. 141
E. None of these

Answer – **D. 141**
Explanation :
$2 + 7^2 = 51$
$51 + 6^2 = 87$
$87 + 5^2 = 112$
$112 + 4^2 = 128$
$128 + 3^2 = 137$
$137 + 2^2 = 141$

- **5 8 8 10 13 ?**

A. 12
B. 14
C. 18
D. 16
E. None of these

Answer – **D. 16**
Explanation :
*2 – 2
/2 + 4
*2 – 6

- **7 23 55 109 191 ?**

A. 343
B. 323
C. 307
D. 303
E. None of these

Answer – **C. 307**
Explanation :
2^3 – 1^2
3^3 – 2^2
4^3 – 3^2

- **3 2 3 6 14 ?**

A. 46.5
B. 36.5
C. 35.5
D. 45.5
E. None of these

Answer – **E. None of these**
Explanation :
3 * 0.5 + 0.5 = 2
2 * 1.0 + 1.0 = 3
3 * 1.5 + 1.5 = 6
6 * 2 + 2 = 14
14 * 2.5 + 2.5 = 37.5

- **3 8 ? 76 235 696**

A. 49
B. 26
C. 27
D. 22
E. None of these

Answer – **C. 27**
Explanation :
3 * 3 – 1 = 8
8 * 3 + 3 = 27
27 * 3 – 5 = 76
76 * 3 + 7 = 235
235 * 3 – 9 = 696

- **6 13 24 51 98 ?**

A. 149
B. 159
C. 189
D. 201
E. None of these

Answer – **D. 201**
Explanation :
6 * 2 + 1
13 * 2 – 2
24 * 2 + 3
51 * 2 – 4
98 * 2 + 5

- **798 654 554 490 454 ?**

A. 438
B. 448
C. 488
D. 498
E. None of these

Answer – **A. 438**
Explanation :
-12^2 -10^2, -8^2
438

- **13 15 26 84 328 ?**

A. 1780
B. 1890
C. 1650
D. 1690
E. None of these

Answer – **C. 1650**
Explanation :
* 1 + 2
* 2 – 4
* 3 + 6

- **2 11 46 141 286 ?**

A. 342
B. 366
C. 396
D. 291
E. None of these

Answer – **D. 291**
Explanation :
2 * 5 + 1 = 11; 11 * 4 + 2 = 46; 46 * 3 + 3 = 141

- **4 11 34 ? 484 2435**

A. 112
B. 132
C. 115
D. 117
E. None of these

Answer – **D. 117**
Explanation :
11 = 4 * 1 + 7 * 1

34 = 11 * 2 + 6 * 2
117 = 34 * 3 + 5 * 3

- **6072 1010 200 48 14 ?**

A. 5
B. 3
C. 2
D. 1
E. None of these

Answer – **A. 5**
Explanation :
-12 / 6
-10 / 5
-8 / 4

- **5 8 6 10 ? 12**

A. 2
B. 4
C. 6
D. 7
E. None of these

Answer – **D. 7**
Explanation :
*2 – 2
/2 + 2
*2 – 2

- **6 ? 56 109 184 219**

A. 43
B. 23
C. 27
D. 33
E. None of these

Answer – **B. 23**
Explanation :
2^3 – 2^1
3^3 – 2^2
4^3 – 2^3

- **13700 1957 326 ? 16 5**

A. 60
B. 65
C. 55
D. 45
E. None of these

Answer – **B. 65**
Explanation :
-1 / 7
-1 / 6
-1 / 5

- **5 12 ? 340 1684 6724**

A. 50
B. 72
C. 60
D. 84
E. None of these

Answer – **C. 60**
Explanation :
* 8 – 28
* 7 – 24
* 6 – 20

- **5 11 20 43 82 ?**

A. 149
B. 159
C. 169
D. 189
E. None of these

Answer – **C. 169**
Explanation :
5 * 2 + 1
11 * 2 – 2
20 * 2 + 3
43 * 2 – 4
82 * 2 + 5