



Calculate sums of arithmetic series

1

Start at 3 and add 3 for each term

A 3, 0, -3, -6

B 3, 7, 11, 15

C 3, 6, 9, 15

D 3, 6, 9, 12

E 3, 3, 3, 3

F 3, 9, 27, 81

2

2, 5, 8, 11

A Start at 2 and subtract 3 for each term

B Start with 2 and 5. Add the prior two terms for each subsequent term

C Start at 2 and multiply by 3 for each term

D Start at 0 and add 3 for each term

E Start at 2 and add 3 for each term

F Start at 2 and add -1 for each term

3

1, 5, 9, 13

A 21

B 1

C 17

D 13

E 18

F 14

4

Start at 3 and add 4 for each term

A 40

B 32

C 38

D 196,608

E 35

F 51

5

92, 86, 80, 74, 68

A 60

B 62

C 58

D 65

E 57

F 715,392

6

Start at 71 and subtract 5 for each term

A 45

B 2

C 136

D 5

E 86,669,921,875

F 6

7 $1 + 2 + \dots + 22 + 23$ A $\sum_{n=2}^{23} n$ B $\sum_{n=0}^{23} n$ C $\sum_{n=1}^{23} \frac{n}{2}$ D $\sum_{n=1}^{23} n + 1$ E $\sum_{n=1}^{23} n$ **8**

The sum of all integers from 1 to 22, inclusive

A $\frac{2}{22(22+1)}$ B $\frac{22(22+1)}{22}$ C $\frac{22(22+1)}{2}$ D $\frac{23(23+1)}{2}$

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$$1 + 2 + \dots + 21 + 22$$

A 231	B 252
C 276	D 253

10

$$6 + 7 + \dots + 11 + 12$$

A 57	B 68	C 76
D 51	E 63	

11

What is the sum of the integers of this summation form?

$$\sum_{n=3}^{11} n$$

A 60	B 52	C 63
D 65	E 75	

12

The sum of all integers from 13 to 30, inclusive

A 387	B 357	C 418
D 399	E 374	

13

The sum of all integers from 1 to 8, inclusive

A 28	B 35
C 36	D 45

14

What is the sum of the integers of this summation form?

$$\sum_{n=1}^{15} n$$

A 120	B 136
C 119	D 105