MANUCHIM C. AMADI 16/MHS01/041 PHARMACOLOGY

1. Let the numbers be a, (a+d), (a-d)

Sum of numbers is 18:

* a+a+d+a-d= 18
* a+a+a+d-d=18
* 3a=18
* a=6

sum of their squares is 206:

* a2+ (a+d)2+ (a-d) = 206

since, a= 6,

* (6)2+ (6+d)2 + (6-d)2= 206
* 36+36+d2+36+d2+206
* 108+2d2= 206
* 2d2=98
* d2 = 49
* d=7
* Therefore, a=6 and d=7
* Hence, the 3 numbers are:
* a=6
* a+d=13
* a-d= -1

1. The arithmetic progression has common difference -5

The number of terms is

180-25 + 1= 32

5

So the sum of the series is

32.205= 16.205= 3280

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