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Thread: [Standard deviation formula](#)

Arrakis - October 7, 2014, 5:55 pm

I'm having trouble converting this particular standard deviation formula into java.

[IMG]http://i1049.photobucket.com/albums/s387/brookpc/0ea557798a29b25defdddc165b1371dc_zps0c701b0b.png[/IMG]

I know that there is a better formula to use, but this is the one I need to use.

Here is what I have:

```
Code standardDeviation = Math.sqrt( ((sumOfsquares) - (1.0/count) * (Math.pow(ave,2))) / (count - 1) );
```

Note that ave = average, and count = n.

When I input the numbers 13,23,12,44,55 I get a rounded 37.52 returned which I know is incorrect.

I'm sure the answer is right in front of me, but it always helps to have a second set of eyes.

King Yolo - October 7, 2014, 6:01 pm

The average(ave) should be replaced with the summation of all X terms, since that's what the symbol denotes

Arrakis - October 7, 2014, 6:13 pm

(Oct 7, 2014 06:01 PM)King Yolo Wrote: [\[CITE\]](#) The average(ave) should be replaced with the summation of all X terms, since that's what the symbol denotes

Sure enough, can't believe I didn't spot that, had it mis-labeled in my notes which translated into my code.

Thank-you!