James Dumitru

IIT Psych 203

Project 5

I used the data from the 1&2nd projects:

LabSurvey$MovieTrivia <- with(LabSurvey, A1+A2+A3+A4+A5+A6+A7+A8+A9+A10+A11+A12+A13+A14+A15)

LabSurvey$StatsEfficacy <- with(LabSurvey, (B1+B2+B3+B4+B5+B6+B7+B8+B9+B10+B11+B12+B13)/13)

1. If you were to add 3 to the data set, the standard deviation wouldn't increase but stay the same because of the s.d. formula, N would stay the same I believe. While the s.d. wouldn't change, the mean will increase. If you were to multiply everything by 3 then both the mean and the standard deviation would increase by times 3.
2. It did, the s.d. didn't change when you added the +3, only for the mean.

The original s.d. = 2.51407

The original mean = 7.915254

The +3 :

s.d.=2.514017

mean=10.91525

1. However, when you x3 you get both of them multiplied by 3.

The x3:

s.d.=7.54205

mean=23.74576

1. The original Stats Efficacy s.d.=0.35495

The original Stats Efficacy mean=2.091265

The +3

s.d.=0.35495

mean=5.091265

The x3

s.d.=1.06485

mean=6.273794

1. A screenshot of a cell phone

   Description automatically generatedA screenshot of a cell phone

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