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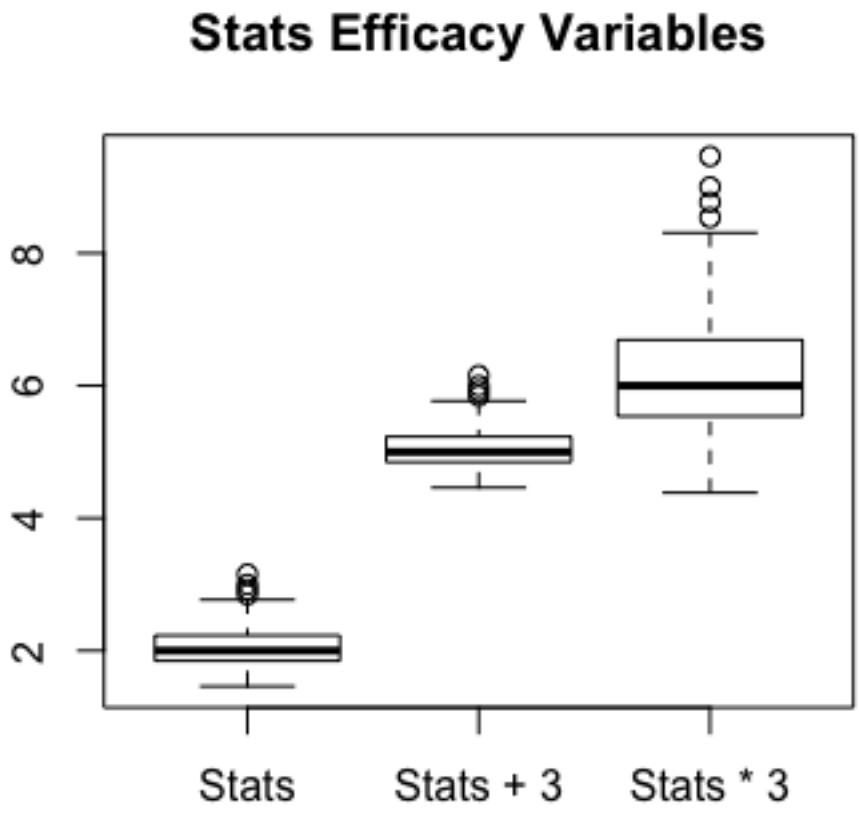
IIT Psych 203
Project 5

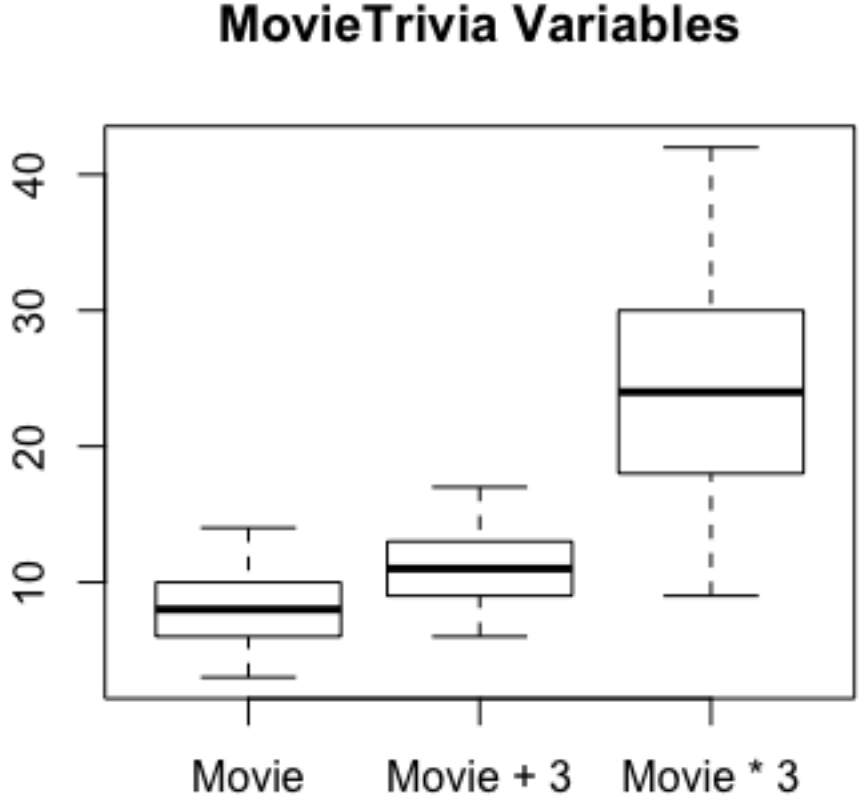
I used the data from the 1&2nd projects:

```
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
3.) However, when you x3 you get both of them multiplied by 3.
    The x3:
    s.d.=7.54205
    mean=23.74576
4.) 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



5.)


MovieTrivia Variables
10
20
30
40
Movie
Movie + 3
Movie * 3