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Muhammad Zubair

STA301 GDB Solution

<https://www.facebook.com/groups/VuStrength/>

X	X ²
10	100
15	225
18	324
27	729
35	1225
Total	105 2603

$$\bar{X} = \frac{\sum X}{n}$$

$$\bar{X} = 105 / 5 = 21$$

$$S.D = \sqrt{\left(\frac{\sum X^2}{n}\right) - \left(\frac{\sum x}{n}\right)^2}$$

$$S.D = \sqrt{\left(\frac{2603}{5}\right) - \left(\frac{105}{5}\right)^2}$$

$$S.D = \sqrt{520.6 - 441}$$

$$S.D = \sqrt{79.6}$$

$$S.D = 8.92$$

$$k=2$$

$$\text{Chevychev's Inequality} = (\bar{X} - kS, \bar{X} + kS)$$

$$\text{Chevychev's Inequality} = (21 - 2(8.92), 21 + 2(8.92))$$

$$\text{Chevychev's Inequality} = (21 - 17.84, 21 + 17.84)$$

$$\text{Chevychev's Inequality} = (3.16, 38.84)$$

Note: If you found any mistake then correct urself

