- 1. Assignment marks for 20 students: 6 7 5 7 7 8 7 6 9 7 4 10 6 8 8 9 5 6 4 8
 - Mean = Sum(6,7,5,7,7,8,7,6,9,7,4,10,6,8,8,9,5,6,4,8)/20 = 6.85
 - Median = 7
 - Mode = 7
 - Standard Deviation= $sqrt(((6-6.85)^2+(7-6.85)^2+(5-6.85)^2+(7-6.85)^2+(7-6.85)^2+(8-6.85)^2+(7-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6.85)^2+(6-6$
- 2. Number of daily calls for 31 days: 28, 122, 217, 130, 120, 86, 80, 90, 140, 120, 70, 40, 145, 113, 90, 68, 174, 194, 170, 100, 75, 104, 97, 75, 123, 100, 75, 123, 100, 89, 120, 109
 - Mean = Sum(28, 122, 217, 130, 120, 86, 80, 90, 140, 120, 70, 40, 145, 113, 90, 68, 174, 194, 170, 100, 75, 104, 97, 75, 123, 100, 75, 104, 97, 75, 123, 100, 89, 120, 109)/35 = 107.51
 - Median = 100
 - Mode = 75
 - Standard Deviation = $\operatorname{sqrt}(((28-107.51)^2+(122-107.51)^2+(217-107.51)^2+(130-107.51)^2+(120-107.51)^2+(86-107.51)^2+(80-107.51)^2+(90-107.51)^2+(140-107.51)^2+(120-107.51)^2+(70-107.51)^2+(40-107.51)^2+(145-107.51)^2+(113-107.51)^2+(90-107.51)^2+(68-107.51)^2+(174-107.51)^2+(194-107.51)^2+(170-107.51)^2+(100-107.51)^2+(75-107.51)^2+(104-107.51)^2+(97-107.51)^2+(75-107.51)^2+(123-107.51)^2+(100-107.51)^2+(89-107.51)^2+(120-107.51)^2+(109-107.51)^2)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51)^2+(109-107.51$
- 3. Number of days gym attended: x = 0, 1, 2, 3, 4, 5

Probability of attending gym x number of week days: f(x) = 0.09, 0.15, 0.40, 0.25, 0.10, 0.01

- Mean no. of workouts in a week = (0*0.09)+(1*0.15)+(2*0.40)+(3*0.25)+(4*0.10)+(5*0.01)=2.15
- Variance = $(0-2.15)^2*0.09+(1-2.15)^2*0.15+(2-2.15)^2*0.40+(3-2.15)^2*0.25+(4-2.15)^2*0.10+(5-2.15)^2*0.01=1.2275$