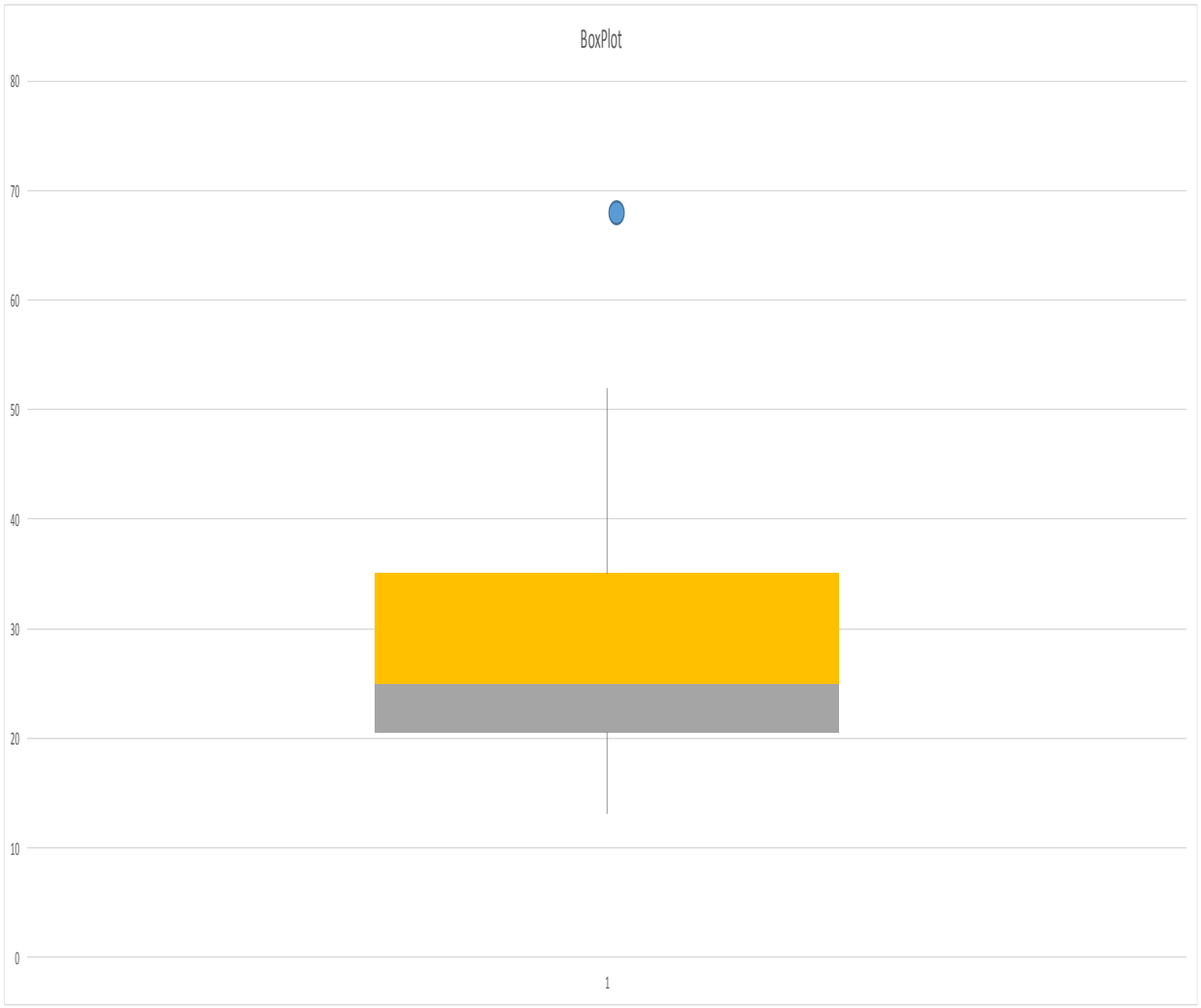
T1:

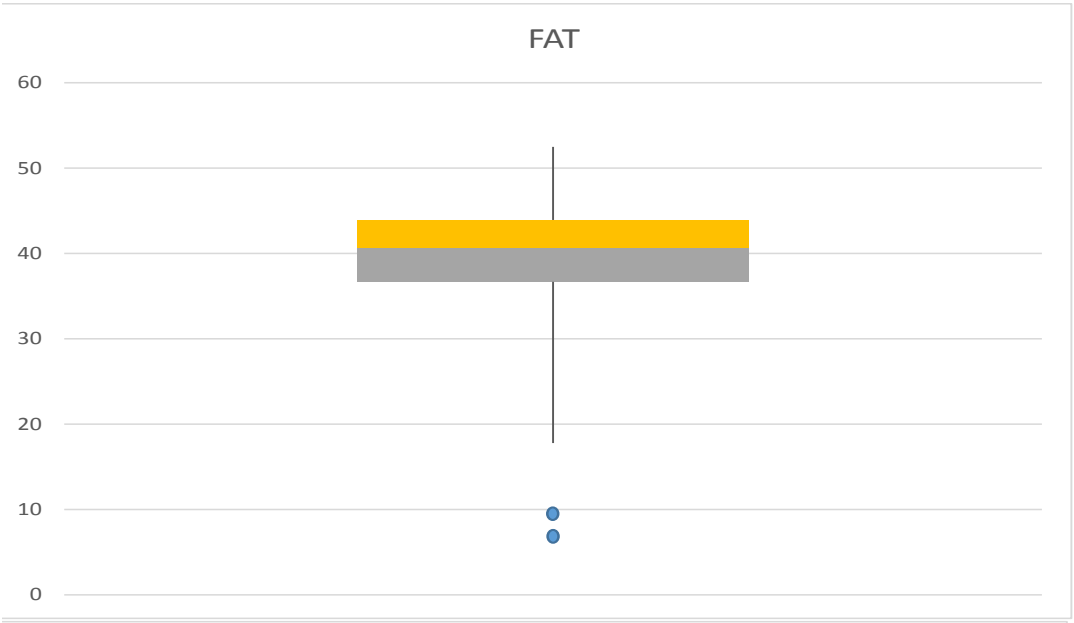
13, 15, 16, 16, 19, 20, 20, 21, 22, 22, 25, 25, 25, 25, 30, 33, 33, 35, 35, 35, 35, 36, 40, 45, 46, 52, 70.

Median = 25
Mean = 809/27 = 29.96
Mode = 25 , 35 –> bimodal
Midrange = (13+70)/2 = 41.5
Q1 = 20
Q2 = 35
Five number summary : min=13 ---- Q1=20.5 ---- median=25 ---- Q3=35 ---- max=70

F)

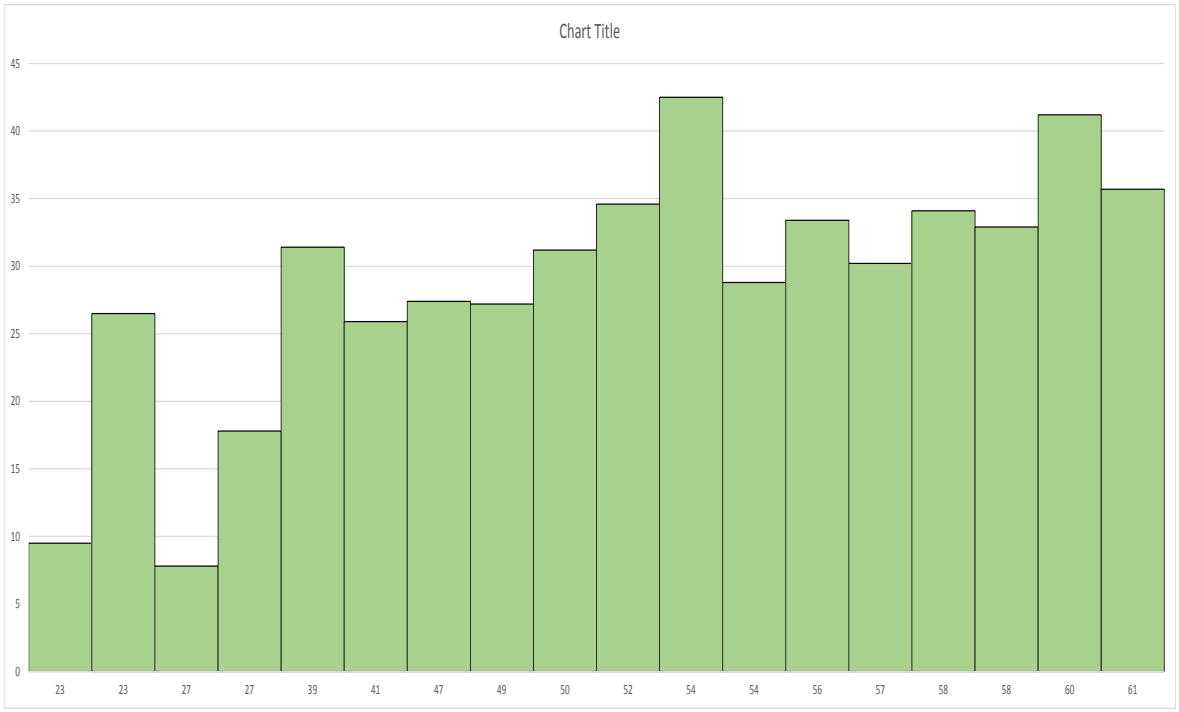


T2:
Age = 23 23 27 27 39 41 47 49 50 52 54 54 56 57 58 58 60 61
%fat = 9.5 26.5 7.8 17.8 31.4 25.9 27.4 27.2 31.2 34.6 42.5 28.8 33.4 30.2 34.1 32.9 41.2 35.7
a)
MEAN FOR AGE = 836/18 = 46.44
MEDIAN FOR AGE = (50+52) / 2 = 51
STANDARD DEVIATION OF AGE = SQRL($(1/N)\sum(X_i^2 - \mu^2)$) = SQRL($(23^2 - 46.44^2)+\ldots\ldots+(61^2 - 46.44^2)$) = 13.218
MEAN FOR %FAT = 518.1/18 = 28.78
MEDIAN FOR AGE = (30.2 + 31.2)/2 = 30.7
STANDARD DEVIATION OF AGE = SQRL($(7.8^2 - 28.78^2)+\ldots\ldots\ldots$) = 9.25
B)

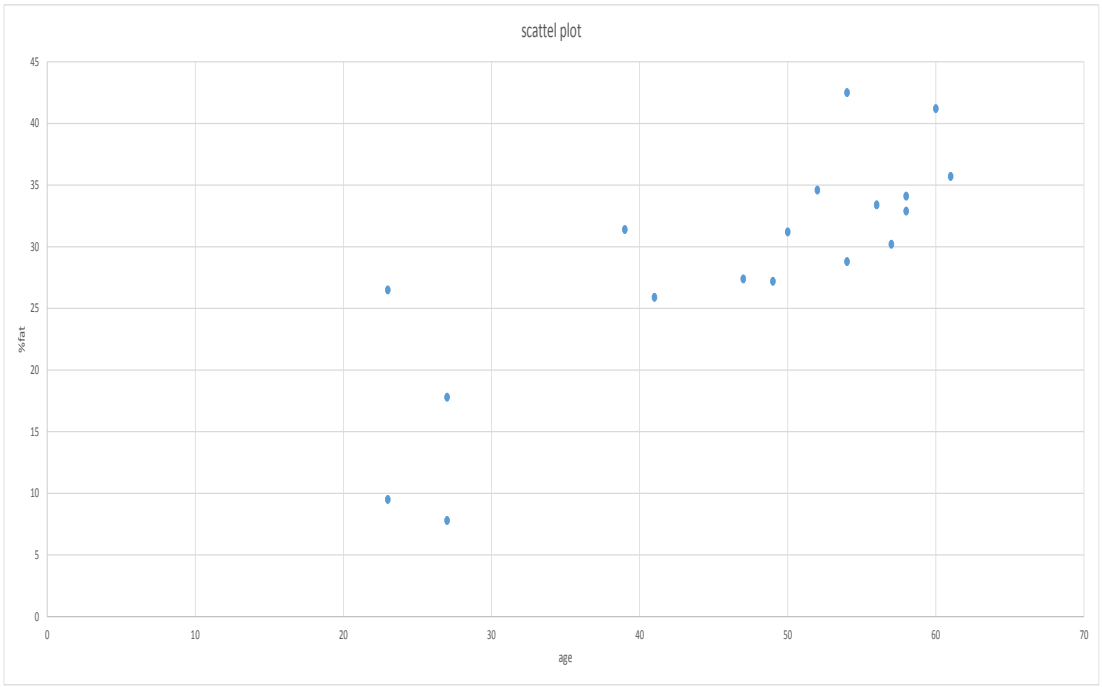


C)

Histogram



scatter plot



T3:

1-5 → 200
6-15 → 450
16-20 → 300
21-50 → 1500
51-80 → 700
81-110 → 44

طبق فرمول موجود

200+300+450+1500+700+44= 3194/2=1597 → [21,50] → 1500
200+450+300 = 950
MEDIAN = $L1+(((n/2) – (\sum freq)_l)/freq)*w$= 50+((1597 -950)/1500)*30 = 62.94