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Golden Research Thoughts

GRT

NUMBER OF MEMBERS IN BANK AND CORRESPONDING SHAREFUNDS



Bhosale Avinash N.

S. Y. B. S. C.

M. S. Kakade College, Someshwarnagar, Pune. Maharashtra, India.

ABSTRACT

Statistics has become an integral part of our daily lives. Statistics can be considered as numerical statement of facts which are highly convenient and meaningful forms of communication. The sub of statistics is primarily concerned with making decision about various properties of some population of interest such as stock market trends, unemployment rates in various sectors of industry, demographic shifts, interest rates, inflation rates over the years and so on.

KEYWORDS :Statistics , making decision , demographic shifts, interest rates.

INTRODUCTION:

There are so many banks in India. Some banks have their branches in various areas. I have collected data of co-operative bank of Ahmednagar. This bank has their branches in various areas. I have mentioned the number of members in each branch and corresponding shares. Data required for this purpose is also mentioned further. I have collected this data from periodical. Hence the data is of secondary type.



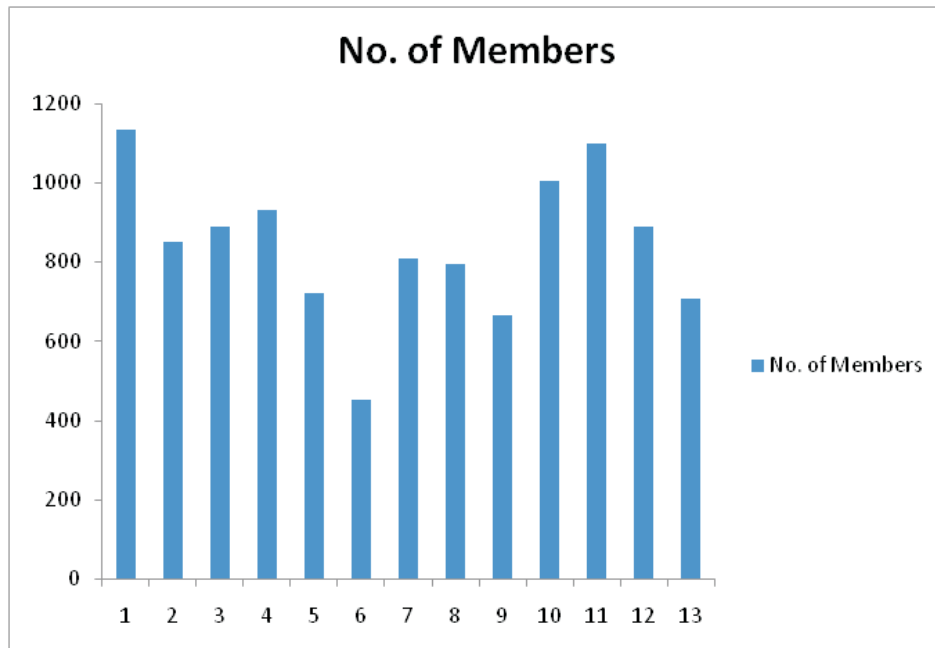
DATA :

Data collected is as follows:

Data collected is of secondary type as it is taken from periodical. It consists of number members in various branches of bank and corresponding share funds.

Branch	No. of Members	Share funds
Sangamner	1135	308.58
Nagar	849	202.85
Parner	890	236.25
Kopergaon	932	245.81
Shrirampur	719	201.91
Jamkhed	452	104.47
Pathardi	808	200.59
Rahuri	793	199.35
Shevgaon	665	178.96
Shrigonda	1005	277.02
Akole	1098	291.75
Newasa	888	242.16
Karjat	706	176.4

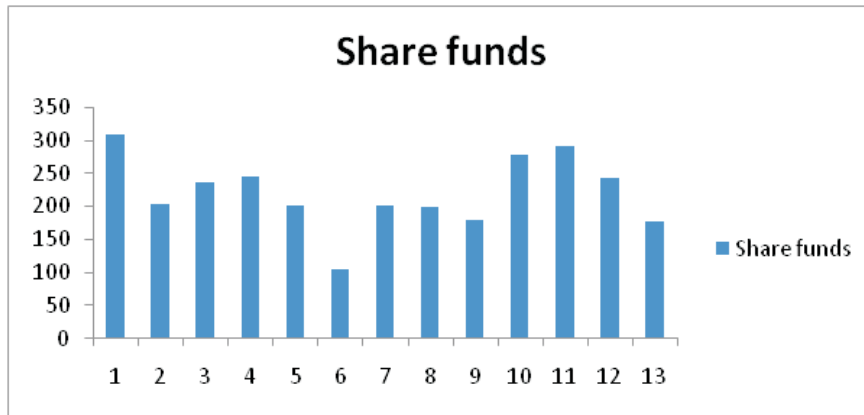
Simple bar diagram for number of members:



Conclusion:

From above bar diagram, we observe that there is variation in number of members in each branch. From this bar diagram we get rough idea of variation in number of members.

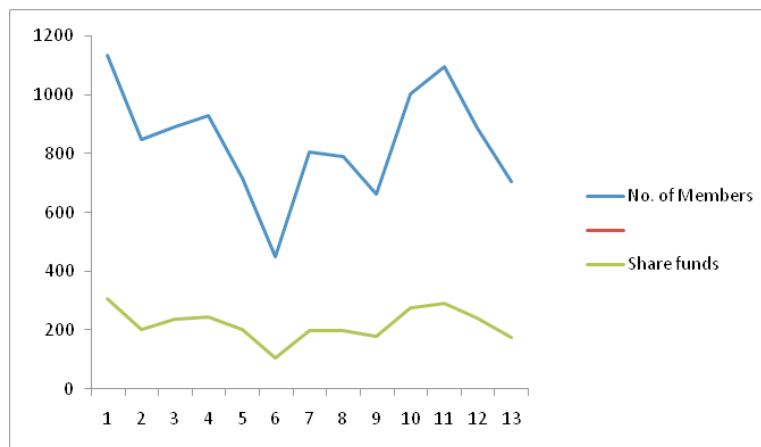
Simple bar diagram for share funds :



Conclusion :

From above bar diagram, we observe that there is variation in share funds of each branch. From this bar diagram we get rough idea of variation of share funds.

Curve for Number of members and share funds :



Conclusion :

Curve gives general trend of variation in both variables.

Test for normality of data:

1.

shapiro.test(x)

data: x

W = 0.9774, p-value = 0.9643

Conclusion:

Here l.o.s is 0.05.

Since p-value (0.9643) > l.o.s (0.05), we accept hypothesis of normality of data.

Hence observations are seemed to come from normal distribution.

2. shapiro.test(y)

data: y

W = 0.9576, p-value = 0.7161

Conclusion:

Here l.o.s is 0.05.

Since p-value(0.7161)>l.o.s(0.05) ,we accept hypothesis of normality of data.

Hence observations are seemed to come from normal distribution.

Mean, variance and standard deviation:

Mean of no. Of members:

Mean = 840.8462

Hence, on an average each branch has about 840 members.

Mean of share funds:

Mean = 220.4692

Hence, on an average each branch has about 220 share funds.

Variance of number of member:

Variance = 34260.94

Variance of share funds:

Variance = 3001.762

Standard deviation of no of members:

S.D. = 185.0971

Standard deviation of share funds:

S.D. = 54.7883

T-Test:

>t.test(x,y,var=T)

Two Sample t-test

data: x and y

t = 11.5456, df = 24, p-value = 2.767e-11

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

509.4779 731.2759

sample estimates:

mean of x mean of y

840.8462 220.4692

Conclusion:

Here, p-value = 2.767e-11 and l.o.s = 0.05

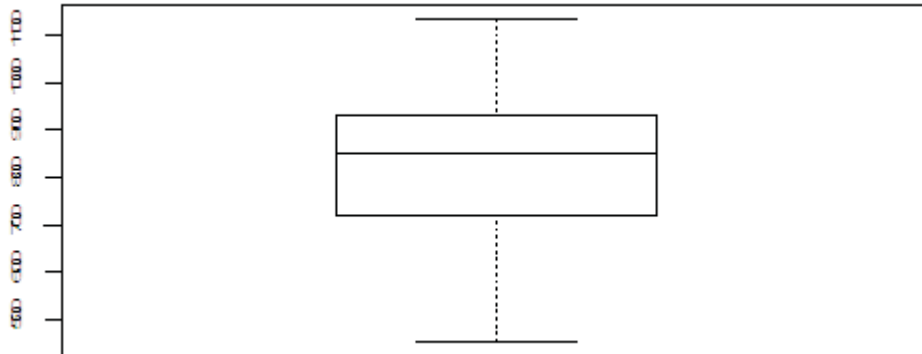
Here, p-value(2.767e-11) <l.o.s(0.05)

Hence, we reject Ho at 5% of level of significance.

Hence, mean number of members and share funds may not be equal.

Box – plot:

Number of members:



INTERPRETATION

- ✦ Data is from normal distribution.
- ✦ Simple bar diagram for both the variables that is for number of members and share funds give rough idea about variation.
- ✦ Mean = 840.8462
- ✦ Mean = 220.4692
- ✦ Variance = 34260.94
- ✦ Variance = 3001.762
- ✦ S.D. = 185.0971
- ✦ S.D. = 54.7883
- ✦ From t – test, we conclude that average number of members may not be equal to that of share funds.

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