Assignment 1 Solution

1.

a.   <u>Degree</u>   <u>Frequency</u>

    BA   88
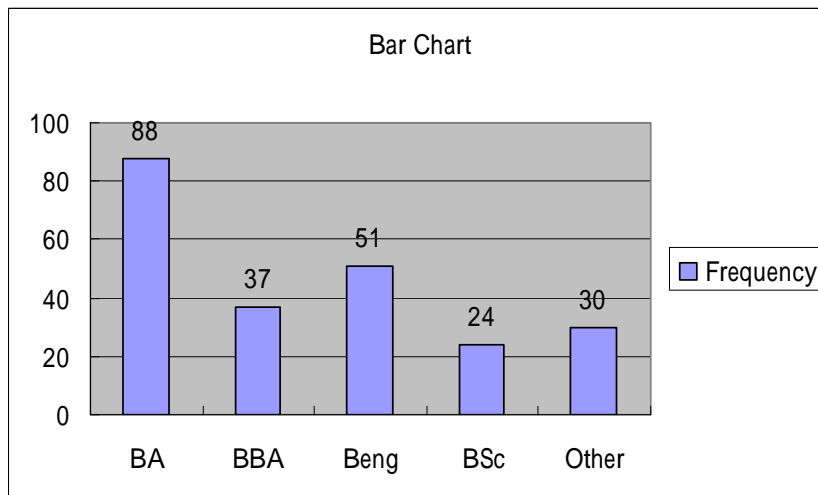
    BBA   37

    B Eng   51
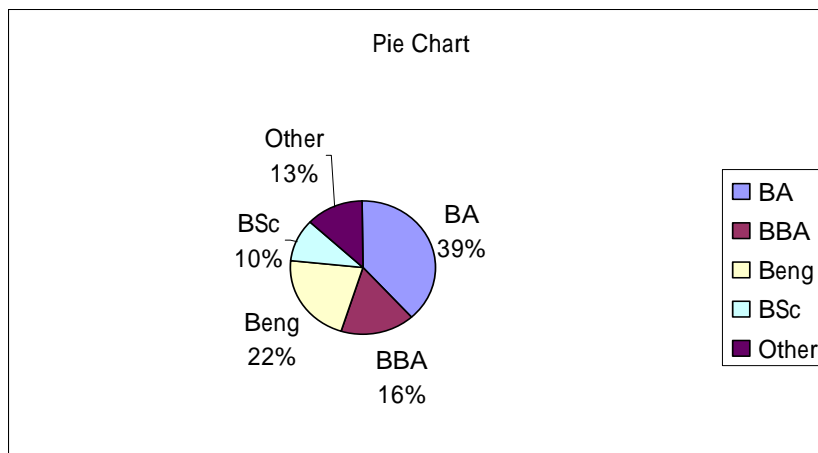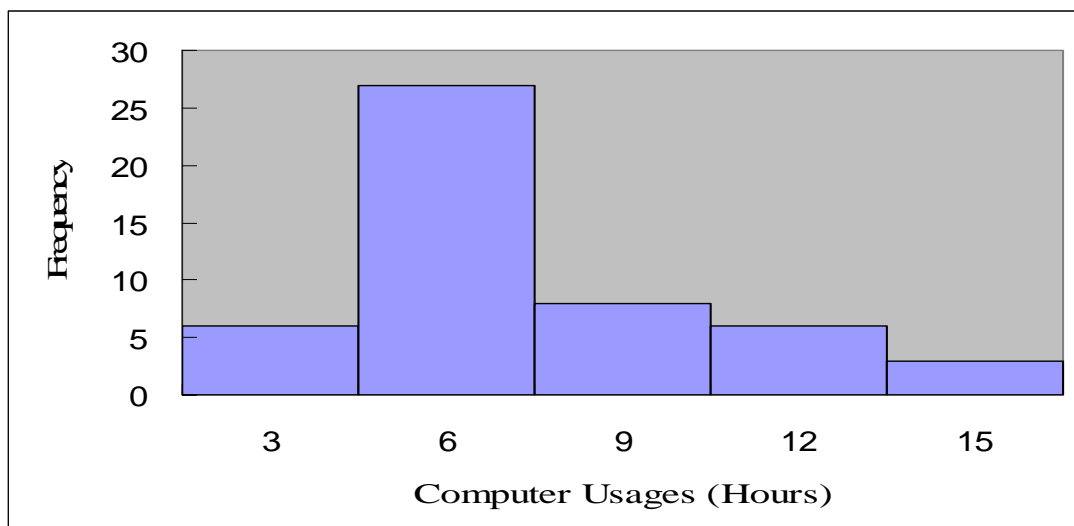
    BSc   24

    Other   30

b.

c.

d.

Most applicants have the BA degree and about one-sixth have a BBA.
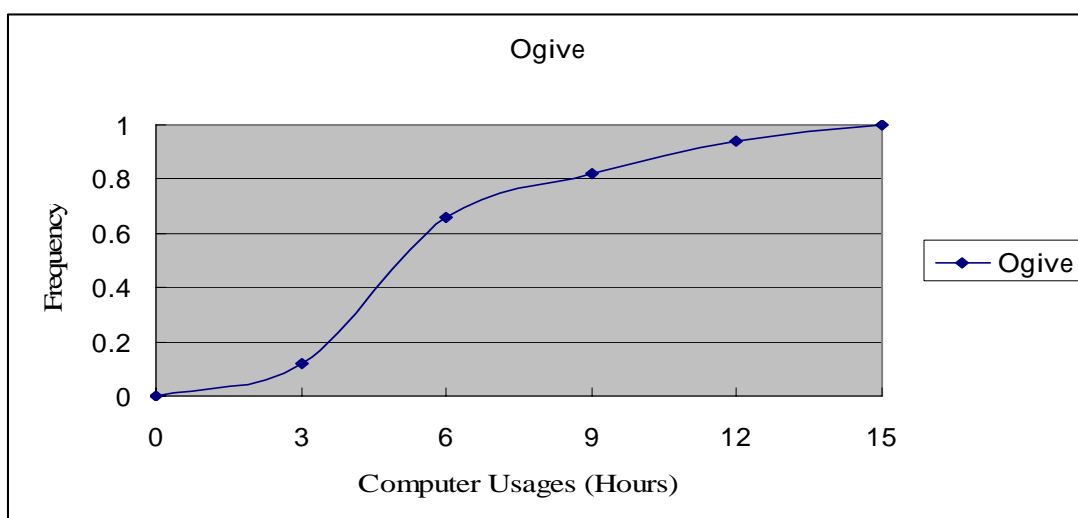
2.

a/b.

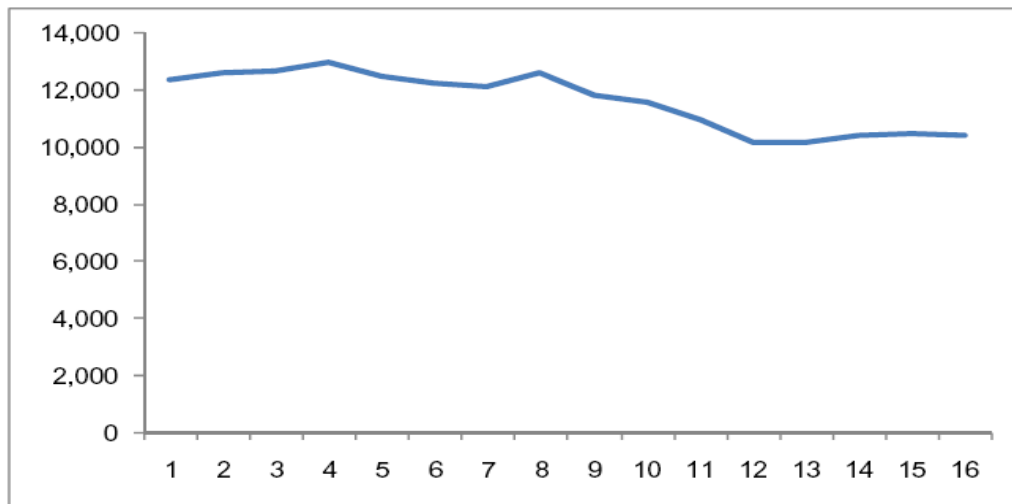| Computer Usage(Hours)	Frequency	Relative Frequency
0 to 3	6	0.12
3 to 6	27	0.54
6 to 9	8	0.16
9 to 12	6	0.12
12 to 15	3	0.06
Total	50	1

c.

d.

e.

The majority of the computer users are in the 3 to 6 hour range. Usage is somewhat skewed toward the right with 3 users in the 12 to 14.9 hour range.
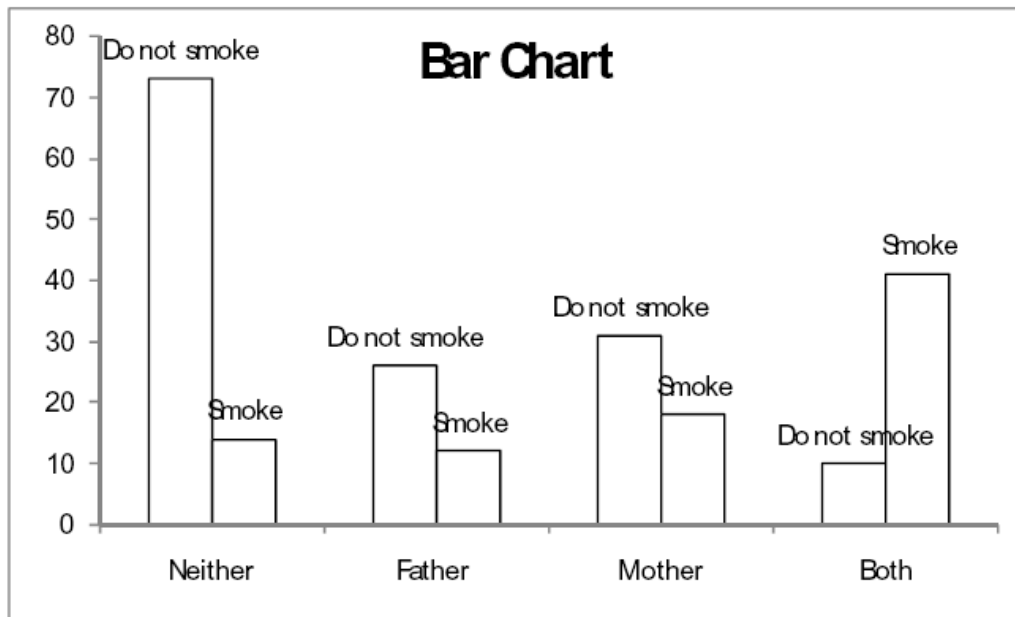
3.

The number of property crime decreased slowly over the 16 years

4.

	A	B	C	D
2				
3	Count of Respondent	Smoke?		
4	Parent	1	2	Grand Total
5	1	73	14	87
6	2	26	12	38
7	3	31	18	49
8	4	10	41	51
9	Grand Total	140	85	225

	A	B	C	D
2				
3	Count of Respondent	Smoke?		
4	Parent	1	2	Grand Total
5	1	0.52	0.16	0.39
6	2	0.19	0.14	0.17
7	3	0.22	0.21	0.22
8	4	0.07	0.48	0.23
9	Grand Total	1.00	1.00	1.00

3

Bar Chart

80
70
60
50
40
30
20
10
0

Do not smoke
Smoke
Do not smoke
Smoke
Do not smoke
Smoke
Do not smoke
Smoke

Neither   Father   Mother   Both

The two variables are related.

5.

a

Scatter Diagram

30
25
20
15
10
5
0

Internet use

20   30   40   50   60   70

Age
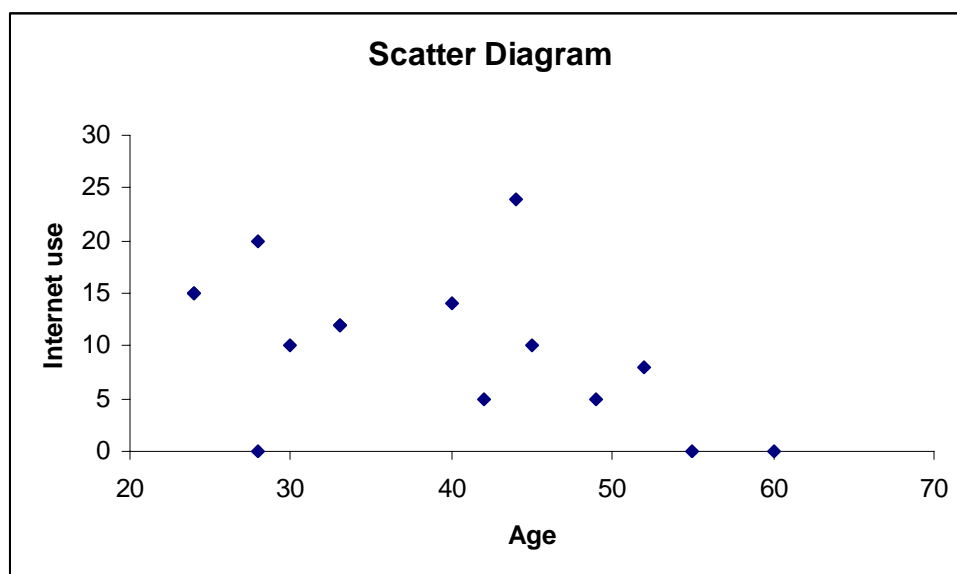
b There does not appear to be a linear relationship.

6.

a
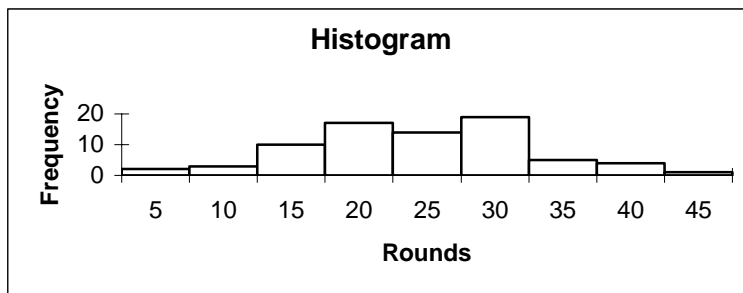
Histogram

b

Stem & Leaf Display				
Stems	**Leaves**			
0	->359			
1	->002333444555667788888899			
2	->000012233344444555666678888889999			
3	->00000112556668			
4	->2			

c

Ogive
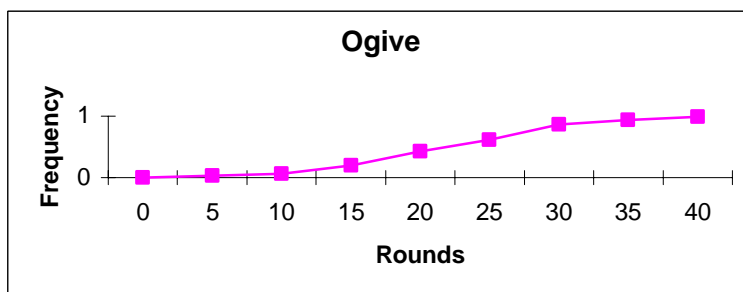
d The histogram is symmetric (approximately) and bimodal.

7.

Leaf Unit =1

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11 | 6
12 | 0 2
13 | 0 6 7
14 | 2 2 7
15 | 5
16 | 0 2 8
17 | 0 2 3
```