Problem 1.2

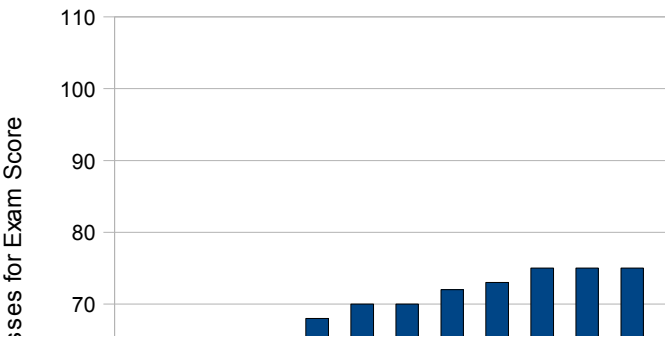
exam1	exam2	Ho	Final	Project	TotalPoints	
89	94	88	87	95		899
88	85	77	90	80		837

Problem 1.5

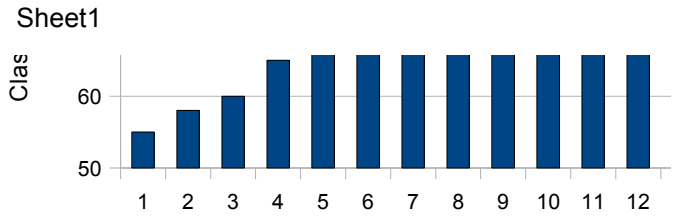
80	55
73	58
92	60
85	65
75	68
98	70
93	70
55	72
80	73
90	75
92	75
80	75
87	78
90	80
72	80
65	80
70	80
85	83
83	85
60	85
70	85
90	87
75	90
75	90
58	90
68	92
85	92
78	93
80	93
93	98

Problem 1.6

55	1
58	2
60	3
65	4
68	5
70	6
70	7
72	8
73	9
75	10
75	11
75	12

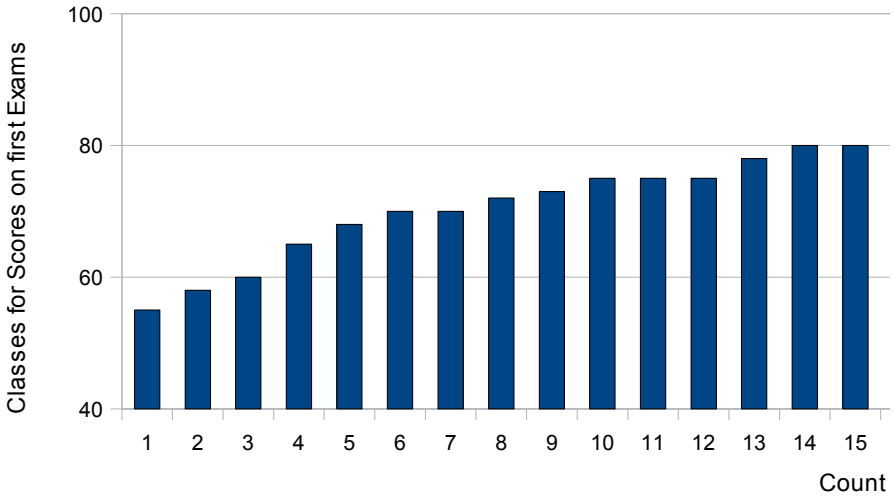


78	13
80	14
80	15
80	16
80	17
83	18
85	19
85	20
85	21
87	22
90	23
90	24
90	25
92	26
92	27
93	28
93	29
98	30



Problem 1.7

55	
58	
60	
65	
68	
70	
70	
72	
73	
75	
75	
75	
78	
80	
80	
80	
80	
83	
85	
85	
85	
87	
90	
90	
90	
92	
92	
93	
93	



98

Problem 1.18

Material	wei	percent of total
food scraps	###	11.2
glass	###	5.5
metals	18	7.8
paper, paperboard	###	37.4
plastics	###	10.7
rubber; leather, tex	###	6.8
wood	###	5.5
yard trimmings	###	11.9
other	###	3.2
	###	

Material
food scraps
glass
metals
other
paper, paperboard
plastics
rubber; leather, textiles
wood
yard trimmings

Material
food scraps
glass
metals
other
paper, paperboard
plastics
rubber; leather, textiles
wood
yard trimmings

Problem 1.20

Degree	Percent Female	Percent Female	Degree
Master's in busine	###	76.2	Master's in education
Master's in educat	###	70.8	Doctorate in education
Other master of ar	###	59.6	Other master of arts
Other master of sc	53	54.2	Other PhD degree
Doctorate in educa	###	53	Other master of science
Other PhD degree	###	50.2	Law
Medicine (MD)	44	44	Medicine (MD)
Law	###	39.8	Master's in business adr
Theology	###	20.2	Theology

Problem 1.24

class	individual instruction groups	class

	141	###	78
	158	###	95
	112	###	96
	153	###	103
	134	###	112
	95	###	134
	96	###	141
	78	###	145
	148	###	147
	172	###	148
	200	###	153
	271	###	158
	103	###	172
	172	###	172
	359	###	200
	145	###	255
	147		271
	255		359

Problem 1.41 part b	women	men	women	men
	180	90	60	0
	120	###	90	30
	180	30	115	30
	360	90	120	30
	240	###	120	30
	120	90	120	45
	180	45	120	60
	120	30	120	60
-\	240	###	120	60
	170	75	120	75
	150	###	150	90
	120	###	150	90
	180	60	150	90
	180	###	150	95
	150	###	170	120
	200	###	180	120
	150	60	180	120
	180	###	180	120
	150	60	180	120
	180	30	180	120
	120	30	180	120
	60	###	180	150
	120	###	180	150
	180	95	180	180
	180	###	180	200
	90	0	200	200
	240	###	240	230

180###	240	240
115###	240	240
120###	360	300

Problem 1.42 survival times (days) of guinea pigs in a medical experiment

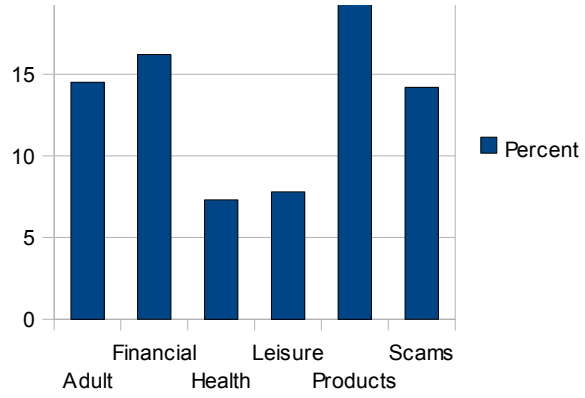
43
45
53
56
56
57
58
66
67
73
74
79
80
80
81
81
81
82
83
83
84
88
89
91
91
92
92
97
99
99
100
100
101
102
102
102
103

Problem 1.19

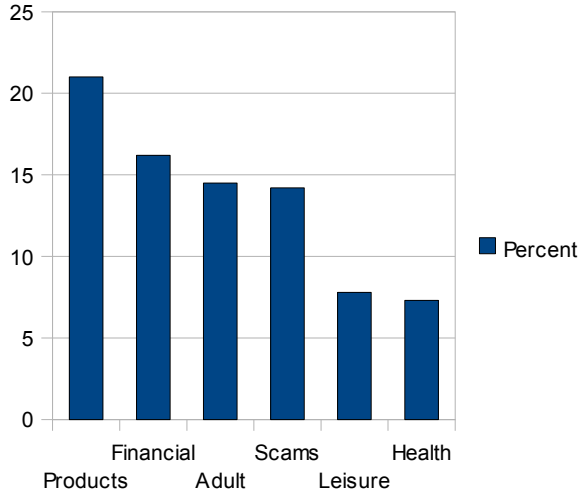
Type of Spam	Percent
Adult	###
Financial	###



Health	###
Leisure	###
Products	21
Scams	###



Type of Spam	Percent
Products	21
Financial	16.2
Adult	14.5
Scams	14.2
Leisure	7.8
Health	7.3



Problem 1.23

class	
8	7
65	9
3	10
2	11
	12
4	13
8751	14
83	15
	16
22	17
	18
	19
0	20
	22

5 25
1 27
28
9 35

class	class	trimmed
141	78	7
158	95	9
112	96	9
153	103	10
134	112	11
95	134	13
96	141	14
78	145	14
148	147	14
172	148	14
200	153	15
271	158	15
103	172	17
172	172	17
359	200	20
145	255	25
147	271	27
255	359	35

Problem 1.34

Year	Recruitment (millio	Year
1973	173	1987
1974	234	1988
1975	616	1989
1976	344	1990
1977	515	1991
1978	576	1992
1979	727	1993
1980	1411	1994
1981	1431	1995
1982	1250	1996
1983	2246	1997
1984	1793	1998
1985	1793	1999
1986	2809	2000

Problem 1.56	random samples of trees		random samples of trees	
	10.5	1	2.2	1
	13.3	2	2.2	2
	26	3	2.3	3
	18.3	4	2.7	4
	52.2	5	4.3	5
	9.2	6	4.9	6
	26.1	7	5.4	7
	17.6	8	7.8	8
	40.5	9	9.2	9
	31.8	10	10.5	10
	47.2	11	11.4	11
	11.4	12	11.4	12
	2.7	13	13.3	13
	69.3	14	16.9	14
	44.4	15	17.6	15
	16.9	16	18.3	16
	35.7	17	22.3	17
	5.4	18	26	18
	44.2	19	26.1	19
	2.2	20	**27.9**	20
	4.3	21	**29.1**	21
	7.8	22	31.5	22
	38.1	23	31.8	23
	2.2	24	32.6	24
	11.4	25	35.7	25
	51.5	26	37.5	26
	4.9	27	38.1	27
	39.7	28	39.7	28
	32.6	29	40.3	29
	51.8	30	40.5	30
	43.6	31	43.3	31
	2.3	32	43.6	32
	44.6	33	44.2	33
	31.5	34	44.4	34
	40.3	35	44.6	35
	22.3	36	47.2	36
	43.3	37	51.5	37
	37.5	38	51.8	38
	29.1	39	52.2	39
	27.9	40	69.3	40

Problem 1.65 This is probably a skewed relationship where most of the net worth made by th

Problem 1.67						
clerk	$35,000.00	1	mean	median	Seven of the employees	
clerk	$35,000.00	2		4		
clerk	$35,000.00	3	$81,875.00	$35,000.00		
clerk	$35,000.00	4				
clerk	$35,000.00	5				
junior account	$80,000.00	6				
junior account	$80,000.00	7				
firm owner	$320,000.00	8				

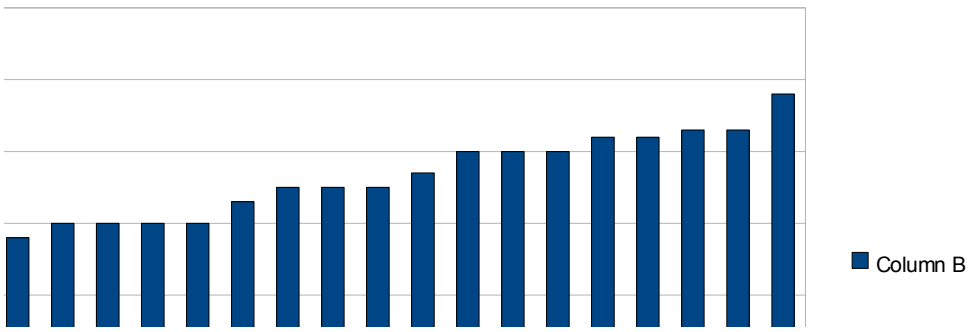
Problem 1.68			
	income for soc	median	mean
1	$0.00	4	
2	$1,000.00	$2,000.00	$60,800.00
3	$1,000.00		
4	$2,000.00		
5	$100,000.00		
6	$100,000.00		
7	$100,000.00		

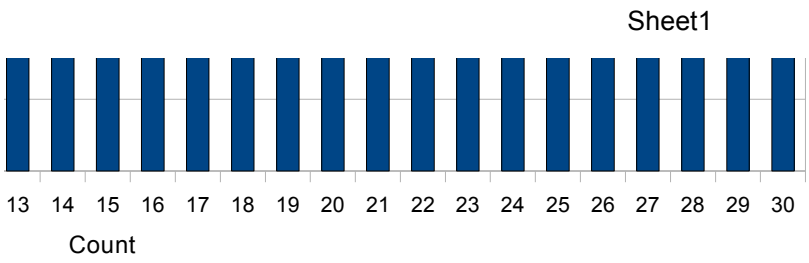
Problem 1.69						
clerk	$35,000.00	1	mean	median		
clerk	$35,000.00	2		4	The mean increases $5	
clerk	$35,000.00	3	$138,125.00	$35,000.00		
clerk	$35,000.00	4				
clerk	$35,000.00	5				
junior account	$80,000.00	6				
junior account	$80,000.00	7				
firm owner	$770,000.00	8				

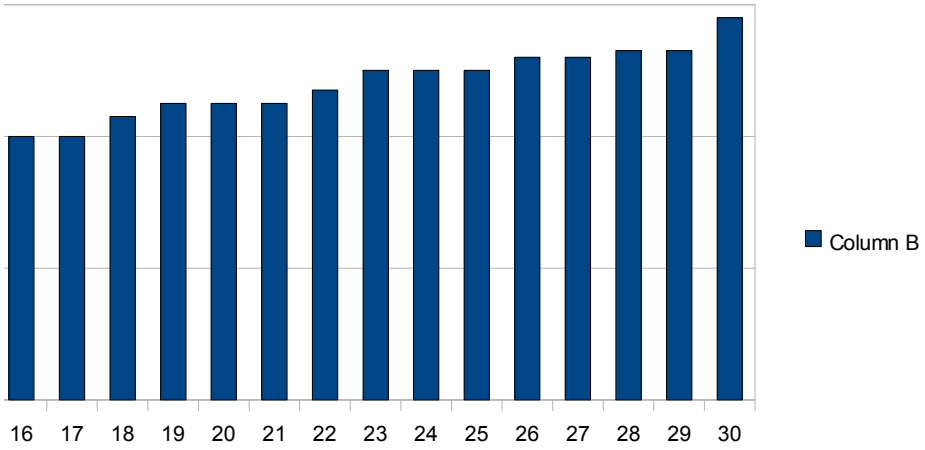
men	calories	degrees of fre	mean	xi-x

Problem 1.70	1	1792	6	1600
	2	1666		
	3	1362		
	4	1614		
	5	1460		
	6	1867		
	7	1439		

Grade
B
B




Sheet1
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Count

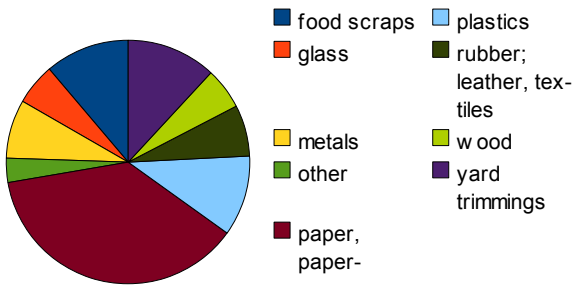

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Column B

weight	percent of total
25.9	11.2
12.8	5.5
18	7.8
7.5	3.2
86.7	37.4
24.7	10.7
15.8	6.8
12.7	5.5
27.7	11.9
231.8	

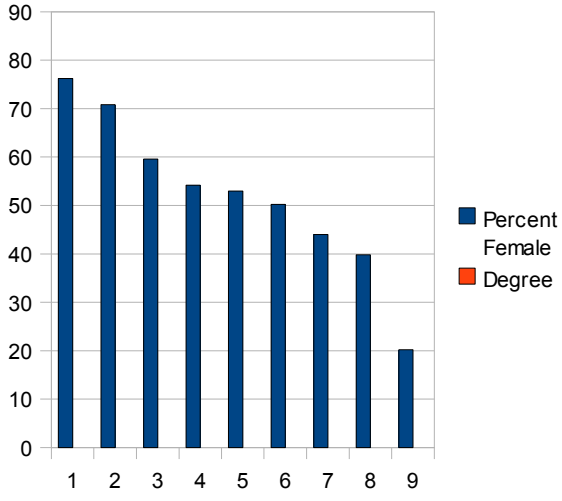
37.4
11.9
11.2
10.7
7.8
6.8
5.5
5.5
3.2

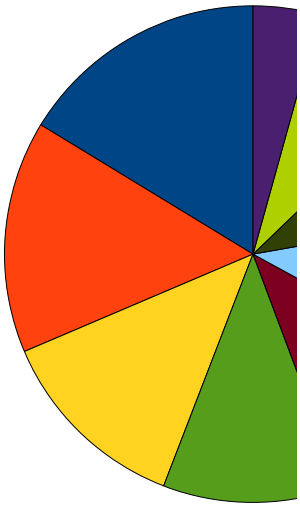
Materials by Percent of Totals

percent of total
11.2
5.5
7.8
3.2
37.4
10.7
6.8
5.5
11.9



ninistration





individual instruction groups class individual instruction groups

128	8	7
128	65	9
158	3	10
159	2	11
160		12 88
163	4	13
164	8751	14
188	83	15 89
195		16 O34
198	22	17
220		18 8
221		19 58
226	0	20
223		22 O1367
227	5	25
283	1	27
		28 3
	9	35

opposite

women	men
	0
	3 OOOO
	4 5
	6 OOO
	7 5
	9 OOO5
5	11
OOO OOOO	12 OOO OOOO
OOOO	15 OO
O	17
OOOOO OOOOO	18 O
O	20 OO
	23 O
OOO	24 OO
	30 O
O	36

Percent	Type of Spam
21	Products
16.2	Financial

14.5	Adult
14.2	Scams
7.8	Leisure
7.3	Health

class	
8	7
65	9
3	10
2	11
	12
4	13
8751	14
83	15
	16
22	17
	18
	19
0	20
	22

5 25
1 27
28
9 35

trimmed class

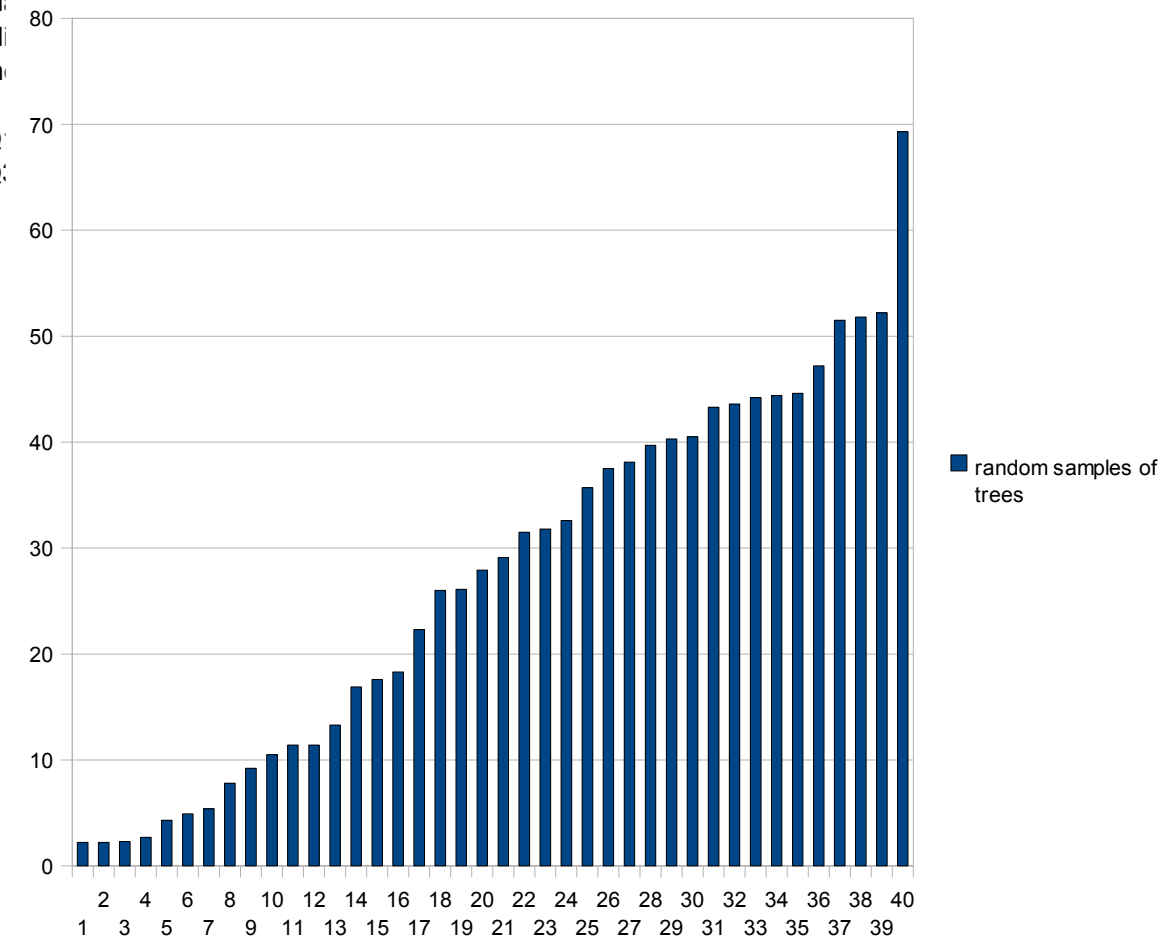
7
9
9

Recruitment (millions)	Year	Recruitment (millions)
4700	1973	173
1702	1974	234
1119	1975	616
2407	1976	344
1049	1977	515
505	1978	576
998	1979	727
505	1980	1411
304	1981	1431
425	1982	1250
214	1983	2246
385	1984	1793
445	1985	1793
676	1986	2809
	1987	4700
	1988	1702
	1989	1119
	1990	2407
	1991	1049
	1992	505
	1993	998

1994	505
1995	304
1996	425
1997	214
1998	385
1999	445
2000	676

M
M
m

Q
Q



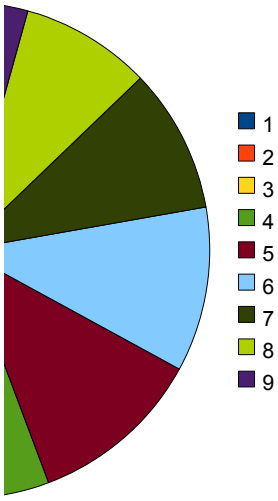
e head of the houshold is around $11,600.00 and there are a few values greater than $90,700.00 where people

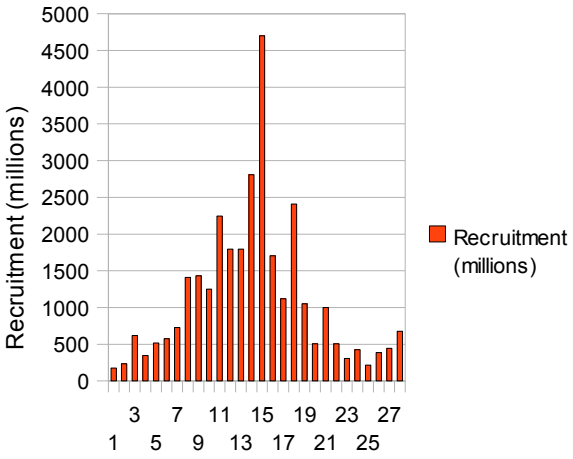
at this company earn less than the mean income.

Here is an example where the median of the group is only $2000.00, but the avaerage income is $60,800.00 .

,250.00, but the median stays exactly the same.

Standard Devi r


1
2
3
4
5
6
7
8
9


Recruitment (millions)
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27
Recruitment (millions)

Year

e make more, so the average can come come as very high and the median as very low.