

Midterm 2 Grade Distribution for 103

This STATA file should be read as follows. Listed in the data are the min, max, quartiles, mean, median and standard deviation. The column labeled centile is the median. To see the distribution of the final grades out of 100 points refer to the data labeled "final". The median is more important than the mean. Below the overall summaries statistics, I have broken up the distributions by the problem part. For example, ile refers to the data on problem 1e of Part I; and ii2a refers to problem 2a from Part II. In addition, ilall refers to all the parts of problem 1 aggregated together, etc. Also, Partii refers to each section of the exam in total.

In summary, the mean exam score was 73.76 out of 100 with a standard deviation of 13.38. The median was 79 and the range of scores was from 40 to 93 out of 100. 82 or above denotes the 75th percentile. On the other hand, the 25th percentile is bordered by a score of 67. The tenth and ninetieth percentiles are border by scores of 52 and 90, respectfully.

On average, the scores were lower than the first exam. What the median grade in the course is curved to will depend on your performance during the final.

The point values for the questions are written on the exam.

```
-----
-
      log:  C:\DATA\mt2statstotal06.log
      log type:  text
      opened on:  25 Apr 2006, 17:37:58

. use "C:\Documents and Settings\David Agrawal\My
Documents\100BS06Kaufman\exam2d
> etails.dta", clear

. sum  final

      Variable |          Obs       Mean   Std. Dev.       Min       Max
-----+-----
      final   |           25       73.76   13.38307        40        93

. centile  final

      Variable |          Obs  Percentile   Centile      -- Binom. Interp. --
      |          |          |          |          |      [95% Conf. Interval]
-----+-----
      final   |           25          50          79      69.20832          81
```

```
. codebook final
```

```
-----  
final (unlabeled)  
-----
```

```
type: numeric (byte)  
range: [40,93] units: 1  
unique values: 19 missing .: 0/25  
  
mean: 73.76  
std. dev: 13.3831  
  
percentiles: 10% 25% 50% 75% 90%  
52 67 79 82 90
```

DETAILED STATISTICS

```
. sum ilabc ild ile ilall iila iilb iilb2 iilall ii2a ii2b ii2c ii2all ii3a ii  
> 3b ii3all ii4a ii4b ii4c ii4all partii final
```

Variable	Obs	Mean	Std. Dev.	Min	Max
ilabc	25	19.36	5.179125	6	24
ild	25	4.32	1.029563	1	5
ile	25	3.92	2.644491	1	7
ilall	25	27.6	7.847505	8	36
iila	25	4.72	1.696074	1	6
iilb	25	3.44	1.044031	1	4
iilb2	25	3.52	.9626353	1	4
iilall	25	11.68	2.577466	5	14
ii2a	25	4.04	1.946792	1	6
ii2b	25	4.24	1.16476	1	5
ii2c	25	2.44	1.89473	1	5
ii2all	25	10.72	2.574231	5	16
ii3a	25	3.96	1.593738	1	6
ii3b	25	5.8	1.224745	3	8
ii3all	25	9.76	1.942507	6	13
ii4a	25	4.92	1.320353	3	6
ii4b	25	2.96	1.135782	1	4
ii4c	25	6.12	1.943365	1	8
ii4all	25	14	3.05505	8	18
partii	25	46.16	6.786506	32	57
final	25	73.76	13.38307	40	93

```
. centile ilabc ild ile ilall iila iilb iilb2 iilall ii2a ii2b ii2c ii2all ii3  
> a ii3b ii3all ii4a ii4b ii4c ii4all partii final
```

Variable	Obs	Percentile	Centile	-- Binom. Interp. -- [95% Conf. Interval]
ilabc	25	50	22	19 22

ild		25	50	5	4	5
ile		25	50	4	1.104158	7
ilall		25	50	31	24.10416	33
ii1a		25	50	6	4.104158	6
ii1b		25	50	4	4	4
ii1b2		25	50	4	4	4
ii1all		25	50	12	10.10416	14
ii2a		25	50	4	3	6
ii2b		25	50	5	4	5
ii2c		25	50	1	1	4.895842
ii2all		25	50	10	9.104158	11.89584
ii3a		25	50	3	3	5.791684
ii3b		25	50	6	5	6
ii3all		25	50	9	9	11
ii4a		25	50	6	4	6
ii4b		25	50	4	2	4
ii4c		25	50	6	5	8
ii4all		25	50	13	12.10416	15.89584
partii		25	50	46	45	48.89584
final		25	50	79	69.20832	81

```
. codebook ilabc ild ile ilall ii1a ii1b ii1b2 ii1all ii2a ii2b ii2c ii2all ii
> 3a ii3b ii3all ii4a ii4b ii4c ii4all partii final
```

```
-----
ilabc (unlabeled)
-----
```

```

type: numeric (byte)
range: [6,24] units: 1
unique values: 10 missing .: 0/25

mean: 19.36
std. dev: 5.17912

percentiles: 10% 25% 50% 75% 90%
              10 17 22 24 24

```

```
-----
ild (unlabeled)
-----
```

```

type: numeric (byte)
range: [1,5] units: 1
unique values: 4 missing .: 0/25

tabulation: Freq. Value
              1 1
              4 3
              5 4
              15 5

```

```
-----
ile (unlabeled)
-----
```

type: numeric (byte)
range: [1,7] units: 1
unique values: 6 missing .: 0/25

tabulation: Freq. Value
8 1
3 2
1 3
2 4
2 5
9 7

ilall (unlabeled)

type: numeric (byte)
range: [8,36] units: 1
unique values: 15 missing .: 0/25

mean: 27.6
std. dev: 7.8475

percentiles: 10% 25% 50% 75% 90%
16 23 31 34 36

iila (unlabeled)

type: numeric (byte)
range: [1,6] units: 1
unique values: 6 missing .: 0/25

tabulation: Freq. Value
1 1
4 2
1 3
2 4
4 5
13 6

iilb (unlabeled)

type: numeric (byte)
range: [1,4] units: 1
unique values: 4 missing .: 0/25

tabulation: Freq. Value
3 1

1 2
3 3
18 4

ii1b2 (unlabeled)

type: numeric (byte)
range: [1,4] units: 1
unique values: 4 missing .: 0/25

tabulation: Freq. Value
2 1
2 2
2 3
19 4

ii1a11 (unlabeled)

type: numeric (byte)
range: [5,14] units: 1
unique values: 9 missing .: 0/25

tabulation: Freq. Value
1 5
1 7
1 8
2 9
3 10
1 11
5 12
1 13
10 14

ii2a (unlabeled)

type: numeric (byte)
range: [1,6] units: 1
unique values: 5 missing .: 0/25

tabulation: Freq. Value
5 1
5 3
4 4
1 5
10 6

ii2b (unlabeled)

```
tabulation: Freq. Value
             2  1
             11 3
             4  4
             8  6
```

ii3b (unlabeled)

```
type: numeric (byte)
range: [3,8] units: 1
unique values: 6 missing .: 0/25
```

```
tabulation: Freq. Value
             1  3
             2  4
             6  5
            11  6
             2  7
             3  8
```

ii3all (unlabeled)

```
type: numeric (byte)
range: [6,13] units: 1
unique values: 8 missing .: 0/25
```

```
tabulation: Freq. Value
             2  6
             1  7
             2  8
             8  9
             2 10
             5 11
             3 12
             2 13
```

ii4a (unlabeled)

```
type: numeric (byte)
range: [3,6] units: 1
unique values: 4 missing .: 0/25
```

```
tabulation: Freq. Value
             6  3
             4  4
             1  5
            14  6
```

ii4b (unlabeled)

type: numeric (byte)

range: [1,4] units: 1
unique values: 3 missing .: 0/25

tabulation: Freq. Value
2 1
10 2
13 4

ii4c (unlabeled)

type: numeric (byte)

range: [1,8] units: 1
unique values: 7 missing .: 0/25

tabulation: Freq. Value
1 1
1 3
3 4
4 5
5 6
1 7
10 8

ii4all (unlabeled)

type: numeric (byte)

range: [8,18] units: 1
unique values: 10 missing .: 0/25

mean: 14
std. dev: 3.05505

percentiles: 10% 25% 50% 75% 90%
10 12 13 18 18

partii (unlabeled)

type: numeric (byte)

range: [32,57] units: 1
unique values: 16 missing .: 0/25

mean: 46.16
std. dev: 6.78651
percentiles: 10% 25% 50% 75% 90%
37 44 46 50 55

final

(unlabeled)

type: numeric (byte)
range: [40,93] units: 1
unique values: 19 missing .: 0/25
mean: 73.76
std. dev: 13.3831
percentiles: 10% 25% 50% 75% 90%
52 67 79 82 90