

STAT 220

FINAL MARKS, Fall Term, 1996

| | |
|------------------------------|-------------------|
| Number of students | 64 |
| Average | 63½% |
| S.d. | 11¾% |
| Median | 63% |
| IQR | 16½% |
| Pass | 92% (59 students) |
| Fail | 8% (5 students) |

Distribution of marks (stemplot):

| | | |
|---|-------------------------|------|
| 9 | 0 | (1) |
| 8 | 013 | (3) |
| 7 | 00001 22345 55667 79 | (17) |
| 6 | 00011 12233 34567 88899 | (20) |
| 5 | 00011 11112 46778 999 | (18) |
| 4 | 6677 | (4) |
| 3 | 9 | (1) |
| 2 | | (-) |
| 1 | | (-) |

ASSIGNMENT SUBMISSION AND FINAL MARKS

| Assignments submitted (out of 6) | Adjusted final mark (%) | No. | Av. (%) | S.d. (%) |
|--|--|-----|------------|-------------|
| 6 | 39, 47, 50, 50, 54, 56, 59, 61, 62, 63, 63, 65, 67, 69, 70, 70, 70, 70, 71, 72, 72, 73, 74, 75, 75, 76, 76, 77, 79, 80, 81, 83, 90 | 33 | 68 | 11.3 |
| 5 | 50, 62, 68, 68, 69, 77 | 6 | 66 | 9.0 |
| 4 | 51, 51, 57, 58, 59, 60, 61, 66, 68 | 9 | 59 | 5.8 |
| 3 | 46, 52, 52, 60, 60, 63, 75 | 7 | 58 | 9.5 |
| 2 | 52 | 1 | 52 | --- |
| 1 | 51, 52, 57, 59, 61 | 5 | 56 | 4.4 |
| 0 | 46 | 1 | 46 | --- |

These observations, which *exclude* two students who copied assignment solutions, raise the following points of interest:

- Only two of the 39 students who submitted 5 or 6 assignments failed the course.
 - Twenty of the 21 students with a final mark of 70% or greater submitted 5 or 6 assignments.
- Two of the 4 students with a failing final mark submitted 3 or fewer assignments.
 - The highest final mark was 61% among students submitting 2 or fewer assignments.

- The summary at the right of the more detailed table above shows the relationship between final grade and number of assignments submitted; the overall ‘slope’ of this relationship is around 2 percentage points of average final grade per assignment submitted.

| Ass. sub. | No. | Av. (%) |
|--------------|-----|------------|
| 5,6 | 39 | 68 |
| 3,4 | 16 | 59 |
| 0,1,2 | 7 | 54 |

- The average number of assignments submitted was 4.71 (78%) and the average assignment mark (out of 10) was about 7.1 (71%)
 - The product (about 56%) of these two percentages suggests that the ‘average’ student in STAT 220 demonstrated competence in *somewhat over half* of the assignment material.

(continued overleaf)

STAT 220
FINAL EXAMINATION MARKS, Fall Term, 1996

| | |
|------------------------------|-------------------|
| Number of students | 64 |
| Average | 61¼% |
| S.d. | 11% |
| Median | 62% |
| IQR | 16½% |
| Pass | 86% (55 students) |
| Fail | 14% (9 students) |

Distribution of marks (stemplot):

| | |
|-------------------------------|------|
| 9 | (-) |
| 8 0118 | (4) |
| 7 00112 35668 9 | (11) |
| 6 00122 22223 33444 56778 9 | (21) |
| 5 00111 22224 47888 8999 | (19) |
| <hr/> | |
| 4 22568 889 | (8) |
| 3 5 | (1) |
| 2 | (-) |
| 1 | (-) |

STAT 220

QUIZ #1 MARKS – Fall Term, 1996

| | |
|------------------------------|-------------------|
| Number of students | 65 |
| Average | 78¼% |
| S.d. | 10¾% |
| Median | 81% |
| IQR | 12½% |
| Pass | 97% (63 students) |
| Fail | 3% (2 students) |

Distribution of marks (stemplot):

| | | |
|-------|------------------------------------|------|
| 9 | 01248 8 | (6) |
| 8 | 00111 11122 22233 44455 66777 8888 | (29) |
| 7 | 22223 44567 79999 999 | (18) |
| 6 | 24678 999 | (8) |
| 5 | 38 | (2) |
| <hr/> | | |
| 4 | 23 | (2) |
| 3 | | (-) |
| 2 | | (-) |
| 1 | | (-) |

STAT 220

QUIZ #2 MARKS – Fall Term, 1996

| | |
|------------------------------|-------------------|
| Number of students | 62 |
| Average | 62½% |
| S.d. | 20¼% |
| Median | 60½% |
| IQR | 28% |
| Pass | 74% (46 students) |
| Fail | 26% (16 students) |

Distribution of marks (stemplot):

| | | |
|-------|----------------|------|
| 9 | 22489 | (5) |
| 8 | 44556 7889 | (9) |
| 7 | 02334 4579 | (9) |
| 6 | 00011 44568 8 | (11) |
| 5 | 02455 67899 99 | (12) |
| <hr/> | | |
| 4 | 12267 889 | (8) |
| 3 | 0125 | (4) |
| 2 | 189 | (3) |
| 1 | 2 | (1) |

STAT 220
ASSIGNMENT MARKS – Fall Term, 1996

Assignment 1

Mark distribution:

| | |
|----|----|
| 10 | 2 |
| 9 | 29 |
| 8 | 14 |
| 7 | 11 |
| 6 | 5 |
| 5 | 1 |
| | |
| 4 | 1 |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | |
| 63 | |

Average: 8.08
Median: 8

Assignment 2

Mark distribution:

| | |
|----|----|
| 10 | 2 |
| 9 | 9 |
| 8 | 12 |
| 7 | 9 |
| 6 | 9 |
| 5 | 6 |
| | |
| 4 | 1 |
| 3 | 2 |
| 2 | 1 |
| 1 | -- |
| | |
| 51 | |

Average: 6.98
Median: 7

Assignment 3

Mark distribution:

| | |
|----|----|
| 10 | 3 |
| 9 | 10 |
| 8 | 11 |
| 7 | 8 |
| 6 | 9 |
| 5 | 5 |
| | |
| 4 | -- |
| 3 | 2 |
| 2 | 2 |
| 1 | 1 |
| | |
| 51 | |

Average: 6.94
Median: 7

Assignment 4

Mark distribution:

| | |
|----|----|
| 10 | 4 |
| 9 | 7 |
| 8 | 14 |
| 7 | 7 |
| 6 | 4 |
| 5 | 10 |
| | |
| 4 | 1 |
| 3 | 1 |
| 2 | -- |
| 1 | 1 |
| | |
| 49 | |

Average: 7.06
Median: 8

Assignment 5

Mark distribution:

| | |
|----|----|
| 10 | 1 |
| 9 | 5 |
| 8 | 7 |
| 7 | 12 |
| 6 | 12 |
| 5 | 7 |
| | |
| 4 | 2 |
| 3 | -- |
| 2 | -- |
| 1 | 1 |
| | |
| 47 | |

Average: 6.62
Median: 7

Assignment 6

Mark distribution:

| | |
|----|----|
| 10 | 1 |
| 9 | 6 |
| 8 | 12 |
| 7 | 13 |
| 6 | 5 |
| 5 | 2 |
| | |
| 4 | 2 |
| 3 | 2 |
| 2 | -- |
| 1 | -- |
| | |
| 43 | |

Average: 7.09
Median: 7