# STAT 220

## FINAL MARKS, Fall Term, 1993

| | |
|---|---|
| Number of students . . . . . | 36 |
| Average . . . . . | 62¼% |
| S.d. . . . . | 14¾% |
| Median . . . . . | 61½% |
| IQR . . . . . | 21% |
| Pass . . . . . | 89% (32 students) |
| Fail . . . . . | 11% ( 4 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | 3 | ( 1) |
| 8 | 01234 | ( 5) |
| 7 | 03346 9 | ( 6) |
| 6 | 03355 69 | ( 7) |
| 5 | 00022 34555 668 | (13) |
| 4 | 03 | ( 2) |
| 3 | 7 | ( 1) |
| 2 | 8 | ( 1) |
| 1 | | ( –) |

## ASSIGNMENT SUBMISSION AND FINAL MARKS

| **Assignments submitted** (out of 6) | **Unadjusted final mark** (%) | **No.** | **Av.** (%) | **S.d.** (%) |
|---|---|---|---|---|
| 6 | 52, 52, 55, 55, 63, 66, 69, 73, 74, 79, 81, 82, 83, 84, 93 | 15 | 71 | 13.2 |
| 5 | 56, 63, 65, 70, 73, 80 | 6 | 68 | 8.4 |
| 4 | 49, 54, 65 | 3 | 56 | 8.2 |
| 3 | 50, 56, 60, 76 | 4 | 60 | 11.1 |
| 2 | 40, 43, 55, 58 | 4 | 49 | 8.8 |
| 1 | 28 | 1 | 28 | --- |
| 0 | 37, 49, 53 | 3 | 46 | 8.3 |

These observations raise the following points of interest:

- No student who submitted 5 or 6 assignments failed the course.
  - Eleven of the 12 students with a final mark of 70% or greater submitted 5 or 6 assignments.
- All four students with a failing adjusted final mark submitted 2 or fewer assignments.
  - The highest final mark was 58% 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 'slope' of this relationship is around 4 percentage points of average final grade per assignment submitted.

| **Ass. sub.** | **No.** | **Av.** (%) |
|---|---|---|
| 5, 6 | 21 | 70 |
| 3, 4 | 7 | 59 |
| 0, 1, 2 | 8 | 45 |

- The average number of assignments submitted was 4.25 (71%) and the average assignment mark (out of 10) was about 7.2 (72%).
  - The product (about 51%) of these two percentages suggests that the 'average' student in STAT 220 demonstrated competence in about *half* the assignment material.

(*continued overleaf*)

# STAT 220

## FINAL EXAMINATION MARKS, Fall Term, 1993

| | |
|---|---|
| Number of students . . . . . | 36 |
| Average . . . . . | 60¾% |
| S.d. . . . . | 14½% |
| Median . . . . . | 60½% |
| IQR . . . . . | 22½% |
| Pass . . . . . | 69% (29 students) |
| Fail . . . . . | 31% ( 7 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | | ( –) |
| 8 | 0129 | ( 4) |
| 7 | 00244 589 | ( 8) |
| 6 | 01134 169 | ( 7) |
| 5 | 00122 33688 | (10) |
| 4 | 12468 | ( 5) |
| 3 | 13 | ( 2) |
| 2 | 3 | ( –) |
| 1 | | ( –) |

## STAT 220

## QUIZ #1 MARKS – Fall Term, 1993

| | |
|---|---|
| Number of students . . . . . | 37 |
| Average . . . . . | 71¼% |
| S.d. . . . . | 17¼% |
| Median . . . . . | 78% |
| IQR . . . . . | 24% |
| Pass . . . . . | 84% (31 students) |
| Fail . . . . . | 16% ( 6 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | 047 | ( 3) |
| 8 | 00123 44555 569 | (13) |
| 7 | 22234 899 | ( 8) |
| 6 | 0556 | ( 4) |
| 5 | 158 | ( 3) |
| 4 | 1778 | ( 4) |
| 3 | 22 | ( 2) |
| 2 | | ( –) |
| 1 | | ( –) |

## STAT 220

## QUIZ #2 MARKS – Fall Term, 1993

| | |
|---|---|
| Number of students . . . . . | 35 |
| Average . . . . . | 66% |
| S.d. . . . . | 16¾% |
| Median . . . . . | 66% |
| IQR . . . . . | 24½% |
| Pass . . . . . | 80% (28 students) |
| Fail . . . . . | 20% ( 7 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 10 | 1 | (1) |
| 9 | 11 | (2) |
| 8 | 17889 | (5) |
| 7 | 00126 7 | (6) |
| 6 | 24466 788 | (8) |
| 5 | 00488 9 | (6) |
| 4 | 16799 | (5) |
| 3 | 49 | (2) |
| 2 | | (–) |
| 1 | | (–) |



(*continued overleaf*)

# STAT 220

## ASSIGNMENT MARKS – Fall Term, 1993

### Assignment 1

Mark distribution:

| | |
|---|---|
| 10 | 3 |
| 9 | 14 |
| 8 | 11 |
| 7 | 2 |
| 6 | 2 |
| 5 | -- |
| 4 | -- |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | 32 |

Average: 8.44
Median: 9

### Assignment 2

Mark distribution:

| | |
|---|---|
| 10 | 6 |
| 9 | 5 |
| 8 | 1 |
| 7 | 5 |
| 6 | 4 |
| 5 | 2 |
| 4 | 1 |
| 3 | 1 |
| 2 | 1 |
| 1 | -- |
| | 26 |

Average: 7.35
Median: 7

### Assignment 3

Mark distribution:

| | |
|---|---|
| 10 | 4 |
| 9 | 4 |
| 8 | 7 |
| 7 | 4 |
| 6 | -- |
| 5 | 1 |
| 4 | 2 |
| 3 | -- |
| 2 | 1 |
| 1 | -- |
| | 23 |

Average: 7.61
Median: 8

### Assignment 4

Mark distribution:

| | |
|---|---|
| 10 | 3 |
| 9 | 1 |
| 8 | 2 |
| 7 | 2 |
| 6 | 6 |
| 5 | 6 |
| 4 | 2 |
| 3 | 5 |
| 2 | 1 |
| 1 | -- |
| | 28 |

Average: 5.71
Median: 5½

### Assignment 5

Mark distribution:

| | |
|---|---|
| 10 | -- |
| 9 | 4 |
| 8 | 10 |
| 7 | 9 |
| 6 | 3 |
| 5 | -- |
| 4 | -- |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | 26 |

Average: 7.58
Median: 8

### Assignment 6

Mark distribution:

| | |
|---|---|
| 10 | 3 |
| 9 | -- |
| 8 | 3 |
| 7 | 2 |
| 6 | 7 |
| 5 | 5 |
| 4 | 1 |
| 3 | -- |
| 2 | 1 |
| 1 | -- |
| | 22 |

Average: 6.41
Median: 6

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