# STAT 220

## FINAL MARKS, Fall Term, 1995

| | |
|---|---|
| Number of students . . . . . | 61 |
| Average . . . . . | 62½% |
| S.d. . . . . | 14¼% |
| Median . . . . . | 63% |
| IQR . . . . . | 18% |
| Pass . . . . . | 87% (53 students) |
| Fail . . . . . | 13% ( 8 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | 1 | ( 1) |
| 8 | 01355 68 | ( 7) |
| 7 | 01112 24777 7 | (11) |
| 6 | 13333 45567 8889 | (14) |
| 5 | 00012 33355 56777 78999 | (20) |
| 4 | 24556 | ( 5) |
| 3 | 23 | ( 2) |
| 2 | 4 | ( 1) |
| 1 | | ( –) |

## ASSIGNMENT SUBMISSION AND FINAL MARKS

| **Assignments submitted** (out of 6) | **Adjusted final mark** (%) | **No.** | **Av.** (%) | **S.d.** (%) |
|---|---|---|---|---|
| 6 | 46, 53, 59, 59, 61, 63, 63, 63, 64, 65, 66 67, 68, 68, 68, 69, 70, 71, 71, 72, 74, 77 77, 77, 77, 80, 81, 83, 85, 85, 86, 88, 91 | 33 | 71 | 10.4 |
| 5 | 24, 42, 50, 50, 55, 56, 57, 63, 65, 71, 72 | 11 | 55 | 13.8 |
| 4 | 32, 57 | 2 | 44 | 17.7 |
| 3 | 51, 55, 58 | 3 | 55 | 3.5 |
| 2 | 45, 45, 50, 53, 53 | 5 | 49 | 4.0 |
| 1 | 33, 44 | 2 | 38 | 7.8 |
| 0 | 59 | 1 | 59 | --- |

These observations, which *ex*clude four students who copied assignment solutions, raise the following points of interest:

- Only three of the 44 students who submitted 5 or 6 assignments failed the course; one of these students had consistently weak term work and missed a quiz for illness, another had assignment marks consistently higher than quiz and exam marks.
  - All of the 19 students with a final mark of 70% or greater submitted 5 or 6 assignments.
- Four of the 8 students with a failing final mark submitted 2 or fewer assignments.
  - The highest final mark was 59% 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 about 3 percentage points of average final grade per assignment submitted.

| **Ass. sub.** | **No.** | **Av.** (%) |
|---|---|---|
| 5,6 | 44 | 67 |
| 3,4 | 5 | 51 |
| 0,1,2 | 8 | 48 |

- The average number of assignments submitted was 4.95 (82%) and the average assignment mark (out of 10) was about 7.69 (77%).
  - The product (about 63%) of these two percentages suggests that the 'average' student in the course demonstrated competence in *approaching two-thirds* of the assignment material.

(*continued overleaf*)

# STAT 220

## FINAL EXAMINATION MARKS, Fall Term, 1995

| | |
|---|---|
| Number of students . . . . . | 61 |
| Average . . . . . | 58% |
| S.d. . . . . | 13¾% |
| Median . . . . . | 59% |
| IQR . . . . . | 19½% |
| Pass . . . . . | 69% (42 students) |
| Fail . . . . . | 31% ( 19 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | | ( –) |
| 8 | 1278 | ( 4) |
| 7 | 00224 56778 | (10) |
| 6 | 00011 12222 2588 | (14) |
| 5 | 01123 46666 7999 | (14) |
| 4 | 00023 66668 89999 | (15) |
| 3 | 569 | ( 3) |
| 2 | 3 | ( 1) |
| 1 | | ( –) |

## STAT 220

## QUIZ #1 MARKS – Fall Term, 1995

| | |
|---|---|
| Number of students . . . . . | 60 |
| Average . . . . . | 79½% |
| S.d. . . . . | 13% |
| Median . . . . . | 81½% |
| IQR . . . . . | 14½% |
| Pass . . . . . | 97% (58 students) |
| Fail . . . . . | 3% ( 2 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | 00112 33346 7 | (11) |
| 8 | 00111 12222 23355 56888 88899 | (25) |
| 7 | 11122 34778 99999 | (15) |
| 6 | 12568 9 | ( 6) |
| 5 | 2 | ( 1) |
| 4 | | ( –) |
| 3 | 5 | ( 1) |
| 2 | 8 | ( 1) |
| 1 | | ( –) |

## STAT 220

## QUIZ #2 MARKS – Fall Term, 1995

| | |
|---|---|
| Number of students . . . . . | 61 |
| Average . . . . . | 59¾% |
| S.d. . . . . | 17½% |
| Median . . . . . | 57% |
| IQR . . . . . | 24% |
| Pass . . . . . | 75% (46 students) |
| Fail . . . . . | 25% (15 students) |

Distribution of marks (stemplot):

| | | |
|---|---|---|
| 9 | 024 | ( 3) |
| 8 | 02234 8 | ( 6) |
| 7 | 24566 889 | ( 8) |
| 6 | 01356 66699 9 | (11) |
| 5 | 00111 22345 56666 799 | (18) |
| 4 | 12356 899 | ( 8) |
| 3 | 1189 | ( 4) |
| 2 | 135 | ( 3) |
| 1 | | ( –) |



(*continued overleaf*)

# STAT 220

## ASSIGNMENT MARKS – Fall Term, 1995

(excludes four students who copied assignment solutions)

### Assignment 1

Mark distribution:

| | |
|---|---|
| 10 | 9 |
| 9 | 27 |
| 8 | 11 |
| 7 | 3 |
| 6 | 2 |
| 5 | -- |
| 4 | -- |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | 52 |

Average: 8.73
Median: 9

### Assignment 2

Mark distribution:

| | |
|---|---|
| 10 | 2 |
| 9 | 22 |
| 8 | 9 |
| 7 | 9 |
| 6 | 3 |
| 5 | 2 |
| 4 | 1 |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | 48 |

Average: 8.02
Median: 8½

### Assignment 3

Mark distribution:

| | |
|---|---|
| 10 | 2 |
| 9 | 10 |
| 8 | 13 |
| 7 | 6 |
| 6 | 4 |
| 5 | 3 |
| 4 | 1 |
| 3 | 2 |
| 2 | 1 |
| 1 | -- |
| | 42 |

Average: 7.31
Median: 8

### Assignment 4

Mark distribution:

| | |
|---|---|
| 10 | 5 |
| 9 | 11 |
| 8 | 7 |
| 7 | 5 |
| 6 | 9 |
| 5 | 7 |
| 4 | 6 |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | 50 |

Average: 7.06
Median: 7

### Assignment 5

Mark distribution:

| | |
|---|---|
| 10 | 1 |
| 9 | 9 |
| 8 | 14 |
| 7 | 16 |
| 6 | 6 |
| 5 | 3 |
| 4 | 1 |
| 3 | -- |
| 2 | -- |
| 1 | -- |
| | 50 |

Average: 7.40
Median: 7

### Assignment 6

Mark distribution:

| | |
|---|---|
| 10 | 3 |
| 9 | 9 |
| 8 | 9 |
| 7 | 14 |
| 6 | 6 |
| 5 | 2 |
| 4 | 1 |
| 3 | -- |
| 2 | 1 |
| 1 | -- |
| | 45 |

Average: 7.40
Median: 7

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