

**Quiz 1 for Statistics 301**  
**Elementary Statistical Methods - Spring 1999**  
**Material Covered: Chapter 2 of notes; 2.1, 2.2 of text**  
**For: 29th January**

This is a 15 minute quiz, worth 6% and marked out of 6 points. The total possible points awarded for each question is given in square brackets at the beginning of each question. Anything that can fit on one side of an  $8\frac{1}{2}$  by 11 inch piece of paper may be used as a reference during this quiz. A calculator and appropriate statistical tables may also be used. No other aids are permitted.

Name (please print): \_\_\_\_\_ . ID Number: \_\_\_\_\_  
last first

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1. Consider the following distribution table.

- 1 [3] Determine what (a), (b), ..., (f) must be in this table. Ignore (eg. do *not* calculate) the values for the 's.

class interval	number	relative number	proportion per 1 unit	percent (%)
1 to 7	13	$\frac{13}{64}$	.	.
7 to 8	3	(a)	.	.
8 to 10	7	(b)	(c)	(d)
10 to 14	6	$\frac{6}{64}$	.	.
14 to 21	26	$\frac{26}{64}$	.	.
21 to 22	3	$\frac{3}{64}$	.	.
22 to 23	4	$\frac{4}{64}$	(e)	.
23 to 25	2	$\frac{2}{64}$	(f)	.
totals	64			

(a)	(b)	(c)	(d)	(e)	(f)

- 2 [1] **True / False** The values in the “relative number” column should add up to 1.
- 3 [1] **True / False** The values in the “proportion per 1 unit” column should add up to 1.
- 4 [1] The total area in the graph of relative number versus class interval is (circle one) **less than one / greater than one / equal to one**.

1. Consider the following distribution table.

- 1 [3] Determine what (a), (b), ..., (f) must be in this table. Ignore (eg. do *not* calculate) the values for the ·'s.

class interval	number	relative number	proportion per 1 unit	percent (%)
1 to 7	13	$\frac{13}{64}$	·	·
7 to 8	3	(a)	·	·
8 to 10	7	(b)	(c)	(d)
10 to 14	6	$\frac{6}{64}$	·	·
14 to 21	26	$\frac{26}{64}$	·	·
21 to 22	3	$\frac{3}{64}$	·	·
22 to 23	4	$\frac{4}{64}$	(e)	·
23 to 25	2	$\frac{2}{64}$	(f)	·
totals	64			

(a)	(b)	(c)	(d)	(e)	(f)
$\frac{3}{64} = 0.046875$	$\frac{7}{64} = 0.109375$	$\frac{2}{2 \times 64} = 0.015625$	5.5%	$\frac{4}{1 \times 64} = 0.0625$	$\frac{2}{2 \times 64} = 0.015625$

- 2 [1] **True** The values in the “relative number” column should add up to 1.
- 3 [1] **False** The values in the “proportion per 1 unit” column should add up to 1.
- 4 [1] The total area in the graph of relative number versus class interval is **greater than one**.