

ECO239 Quiz1: Answers [Nov.4.2009]

Q1. (Score: 1 point for each correct column, total 5 points)

Exam scores are given as

29 30 35 41 50 53 56 60 62 64 68 69 70 71 75 78 79 82 88 95 (n= 20)

Fill in the table.

Intervals	Frequency	Relative Frequency (%)	Cumulative Frequency	Relative Cumulative Frequency
21 - 30 (given)	2	10	2	10
31 - 40	1	5	3	15
41 - 50	2	10	5	25
51 - 60	3	15	8	40
61 - 70	5	25	13	65
71 - 80	4	20	17	85
81 - 90	2	10	19	95
91 - 100	1	5	20	100

(1 pt)
(1 pt)
(1 pt)
(1 pt)
(1pt)

Note1: The last interval (91 – 100) should also have the same width as others. Therefore, it should not be 91 – 99, but should be 91 – 100.

Note2: If you did wrong in counting frequency, but computed other frequencies correctly based on the mistake, I deducted 1 point for the mistake of “Frequency” and gave full point for other frequencies if the calculation is correct.

Q2. 3 8 9 9 10 10 10

1. Find Mean, Median and Mode.

Mean  $\bar{X} = (3 + 8 + 9 + 9 + 10 + 10 + 10)/7 = 8.428$  (1 pt)

Median = 9 (Since n = 7, median position =  $(7+1)/2 = 4^{\text{th}}$  value). (1 pt)

Mode = 10 (Since 10 occurs more frequency). (1 pt)

2. Comment on the distributional shape.

Since Mean < Median, the distribution is left (negatively) skewed. (1 pt)

