

This quiz covers material from sections 8.1 and 8.2. Show your work.

1. (5 points) A survey was conducted among 200 students on campus regarding the number of parking tickets they received last semester and the results were as follows:

Number of Tickets	0	1	2	3	4	5	6	7	8
Frequency	92	32	35	14	12	7	2	4	2

- a. (1 pt) Create a probability distribution for the number of tickets received.
- b. (2 pts) Draw the histogram.
- c. (2 pts) What is the expected number of tickets that a student received last semester?

2. (3 points) For the following probability distribution, find

x	-3	-1	0	2	3	6
$P(X=x)$.1	.15	.05	.4	.25	.05

- a. (1 pt) $P(X \leq 2)$
- b. (1 pt) $P(X > 0)$
- c. (1 pt) $E(X)$