

1. The following tables are given:

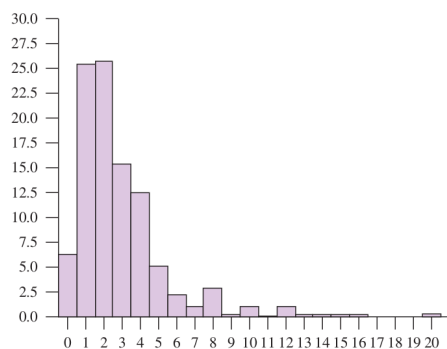
(i)

Classes	Frequency
1-3	4
3-5	8
5-7	5
7-9	12
9-11	6

(ii)

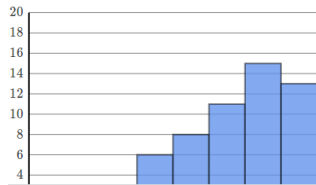
Classes	Relative Frequency (Percentage/Probability)
0-0.5	0.001
0.5-1.5	0.0098
1.5-2.50	0.0439
2.5-3.5	0.1172
3.5-4.5	0.2051
4.5-5.5	0.2461
5.5-6.5	0.2051
6.5-7.5	0.1172
7.5-8.5	0.0439
8.5-9.5	0.0098
9.5-10.5	0.001

- (a) Draw the histogram of the above data(s).
(b) Can you provide an estimate of the mean and the variance of the data(s) ?
2. During the 2011 census, survey officer, Chinnappan asked respondents “On an average day, about how many hours do you personally watch Super-singer T.V. ?” Below is the histogram (recording number of hours watched versus percentage) of the 899 responses.

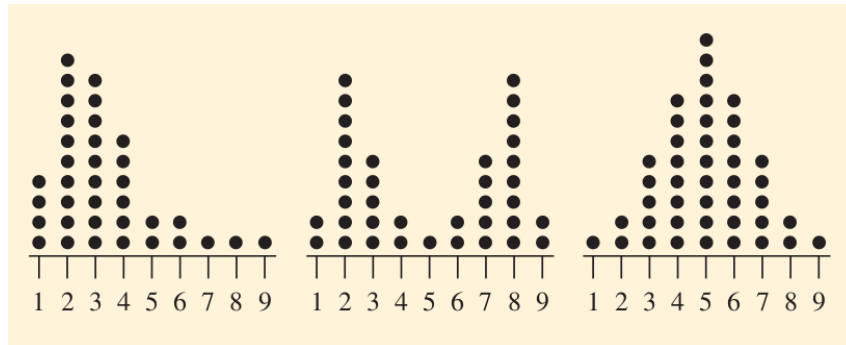


- (a) What was the most common outcome ?
(b) What percentage of people reported watching Super-singer TV no more than 2 hours per day ?

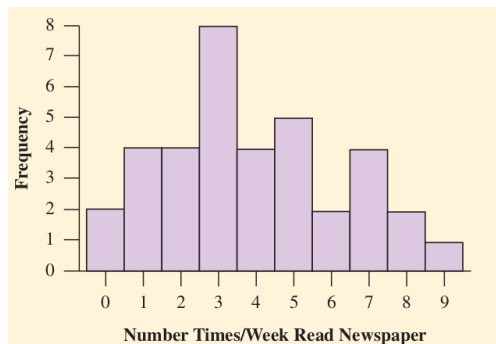
3. Below is a histogram of a data set. Would you say the distribution is skewed left, skewed right or symmetric



4. The figure below shows dot plots for three sample data sets.



- (a) For which, if any, data sets would you expect the mean and the median to be the same ? Explain
- (b) For which, if any, data sets would you expect the mean and the median to differ ? Which would be larger the mean or the median ? Explain
5. Newspaper Association of India wanted to estimate the number of times a week, on average, that students at ICTS read the Hesserghata Times. Superintendent Tamabarvarni did a survey and below is the histogram (recording number of times per week read versus frequency) of the responses:



- (a) How many students did she talk to in total ?
- (b) Report the (i) minimum response, (ii) maximum response, (iii) number of students who did not read the Hesserghata times at all, and (iv) mode.
- (c) Describe the shape of the distribution.