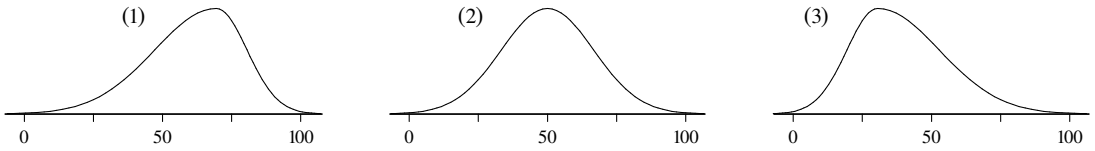
4. Below are sketches of the histograms for three data sets.

MARKS
3
(1, 1, 1)

(a) In scrambled order, the averages are: 40, 50, 60; **match** the histograms with the averages.

(b) The standard deviation of histogram (3) is closest to: 5, 15, 50? Choose **one** option and explain briefly.

(c) The standard deviation of histogram (1) is *a lot* smaller than that of histogram (3): **True** or **False**? Explain briefly.



5. Both the following small data sets have the same average of 100. Which one has the *smaller* standard deviation and why? Explain on the basis of an examination of the data **without computation.**

MARKS
2

(1) 100, 80, 120, 60, 140, 50, 150, 100, 100, 100;

(2) 100, 80, 120, 60, 140, 50, 150.

Data set

6. The average and median salaries of major league baseball players in 1993 were $490,000 and $1,160,000. Which of these two values is the **average** and which is the **median**? Explain your reasoning briefly.

MARKS
2

$

Average

$

Median