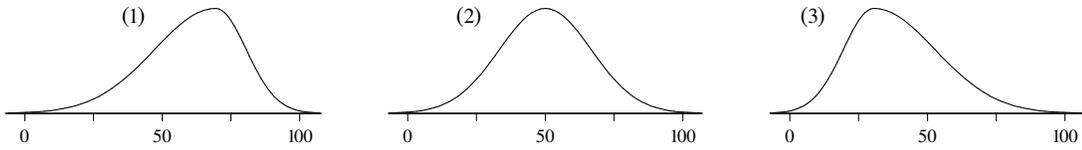4. Below are sketches of the histograms for three data sets.
   (a) In scrambled order, the averages are: 40, 50, 60; **match** the histograms with the averages.
   (b) The standard deviation of histogram (3) is closest to: 5, 15, 50? Choose **one** option and explain briefly.
   (c) The standard deviation of histogram (1) is *a lot* smaller than that of histogram (3): **True** or **False**? Explain briefly.

MARKS
3
(1, 1, 1)

(1)   (2)   (3)

0   50   100   0   50   100   0   50   100

MARKS
2

5. 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.

$ [   ]
Average

$ [   ]
Median

MARKS
4
(1, 2, 1)

6. In a large class, the female students averaged 5'160 cm in height, with a standard deviation of 8 cm; the male students averaged 175 cm in height with a standard deviation of 8 cm;
   (a) If there were 150 females and 150 males in the class, find the average height of all 300 class members.
   (b) For all 300 class members, the standard deviation of height will be: (1) quite a bit **less** than 8 cm; (2) about 8 cm; (3) quite a bit **more** than 8 cm. Choose **one** of these three options and explain your reasoning briefly.
   (c) If there were 200 females and 100 males in the class, find the average height of all 300 class members.

(a)

[   ] (a)
Average

(b)

[   ] (b)
Option number

(c)

[   ] (c)
Average