1. A researcher is collecting the heights of a group of 100 seven year olds for a study. These range from 114 cm to 140 cm. By accident, the highest height is recorded as 1400 cm. For each part (a) and (b) given below, choose one of the options:

(a) The median of the recorded heights is
   i. Higher than the median of the correct list of heights, but there is not enough information to say what it should be.
   ii. Higher than the median of the correct list, it is off by ______________.
   iii. Unchanged; it is the same as the median of the correct list.
   iv. Lower than the median of the correct list of heights, but there is not enough information to say what it should be.
   v. Lower than the median of the correct list, it is off by ______________.

(b) The average of the recorded heights is
   i. Higher than the average of the correct list of heights, but there is not enough information to say what it should be.
   ii. Higher than the average of the correct list, it is off by ______________.
   iii. Unchanged; it is the same as the average of the correct list.
   iv. Lower than the average of the correct list of heights, but there is not enough information to say what it should be.
   v. Lower than the average of the correct list, it is off by ______________.

2. Among first year students at a certain university, scores on the verbal SAT follow the normal curve; the average is around 520 and the SD is about 110.

   (a) What percentage of these students have scores in the range 350-650?
   (b) If a student scored 750, what is their percentile rank? (What percentile of the score distribution are they at?)
   (c) Estimate the 85th percentile of this score distribution.

3. A distribution of heights follows the normal curve. The 60th percentile is 69 inches and the 90th percentile is 72 inches. Find the 25th percentile of the heights.