1. **Problem**

   A continuous random variable X was measured 6 times. The sorted data are shown below, along with each datum's index.

i	x
1	94.182
2	118.976
3	129.095
4	148.486
5	158.732
6	168.385

   The total of the measurements is 817.856.

   (a) Determine the percentile rank of the value 148.486. In other words, determine what percent of data are less than or equal to 148.486.

   (b) Determine the datum corresponding to a percentile rank of 0.5. In other words, determine x such that 50% of the data are less than or equal to x.

   (c) Determine the mean of the measurements.

   (d) Determine the median of the measurements.

2. **Problem**

A continuous random variable X was measured 12 times. The sorted data are shown below.

50.007	50.265	50.441	50.845
51.103	51.334	51.711	51.817
53.295	53.968	54.467	55.129

The total of the measurements is 624.382.

(a) Determine the percentile rank of the value 51.711. In other words, determine what percent of data are less than or equal to 51.711.

(b) Determine the datum corresponding to a percentile rank of 0.25. In other words, determine x such that 25% of the data are less than or equal to x.

(c) Determine the mean of the measurements.

(d) Determine the median of the measurements.