1. **Problem**
   A continuous random variable X was measured 9 times. The sorted data are shown below, along with each datum's index.

i	x
1	101.048
2	103.645
3	117.202
4	129.719
5	135.197
6	143.044
7	150.697
8	162.738
9	167.856

   The total of the measurements is 1211.146.

   (a) Determine the percentile rank of the value 150.697. In other words, determine what percent of data are less than or equal to 150.697.

   (b) Determine the datum corresponding to a percentile rank of 0.889. In other words, determine x such that 88.9% 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 72 times. The sorted data are shown below.

80.239	80.933	82.252	83.159	87.818	95.257	97.171	97.850	99.502
101.737	102.731	105.129	105.346	105.634	106.979	108.847	109.585	109.871
114.086	116.272	116.718	117.063	117.650	118.961	120.393	121.780	121.961
122.434	122.521	123.650	123.976	124.597	126.783	127.449	127.509	128.164
128.330	129.699	130.181	131.505	131.805	131.913	132.336	133.020	133.571
134.494	134.578	135.426	135.884	137.458	138.390	138.573	138.781	140.116
141.013	141.424	141.560	142.178	142.305	143.214	143.228	144.350	144.895
145.479	146.133	146.408	147.068	147.352	147.839	148.004	148.757	148.952

The total of the measurements is 8978.226.

(a) Determine the percentile rank of the value 80.239. In other words, determine what percent of data are less than or equal to 80.239.

(b) Determine the datum corresponding to a percentile rank of 0.444. In other words, determine x such that 44.4% of the data are less than or equal to x.

(c) Determine the mean of the measurements.

(d) Determine the median of the measurements.