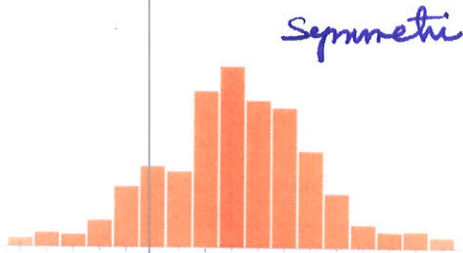
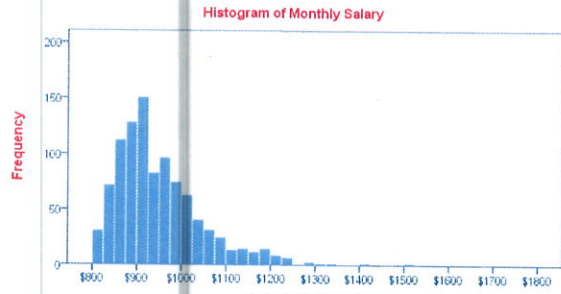


Instructions: Show all work. Use exact answers, unless specifically asked to round.

- Describe the shape of the distributions below as uniform, symmetric, skewed left, skewed right, etc.



Symmetric



right skewed

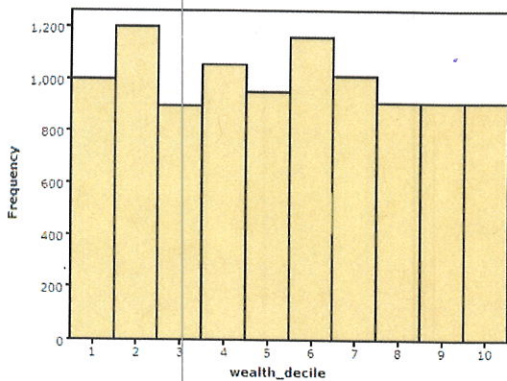
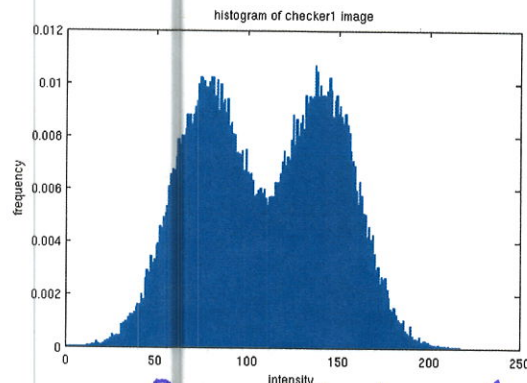
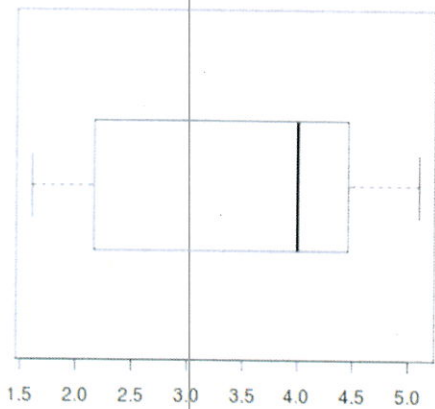


Figure 5 - Wealth Deciles with Outlier Repaired

Uniform



Symmetric, bimodal



left skewed

Stem	Leaf
2	3 6 0 2
3	5 7 2 6 3
4	8 9 6
5	4 7
6	2
7	3

right skewed

2. Use the data set below to find the percentile of the indicated values.

60	64	64	70	73	73	74	77	83	83
84	85	86	87	88	90	91	93	94	96

a. What is the percentile of 73?

$$\frac{6}{20} = 30^{\text{th}} \text{ percentile}$$

b. What is the percentile of 91?

$$\frac{17}{20} = 85^{\text{th}} \text{ percentile}$$

3. Suppose that you have a dataset with 50 elements. What is the location of P_{40} ?

$$.4 \times 50 = 20^{\text{th}} \text{ element in the sorted list}$$