## Boxplot

• Review: Consider the random sample of 21 patients that yielded the following data on length of stays, in days.

 $\{1,1,2,3,4,5,5,6,6,7,9,9,9,10,12,13,13,15,18,24,28\}$ 

- Five-number summary
  - 1. Minimum  $X_{(1)}$
  - **2.** First Quartile  $Q_1$  (lower fourth)
  - 3. Median  $\tilde{X}$
  - **4.** Third Quartile  $Q_3$  (upper fourth)
  - **5.** Maximum  $X_{(n)}$

• **Practice.** The following data set records 40 yearly charitable contributions (in dollars) to the United Fund for a group of employees at a public university. *Note that the data are arranged in increasing order.* 

24	28	41	??	47	51	56	59	63	63
63	65	67	69	70	71	75	77	78	79
79	80	80	80	80	81	81	??	83	84
90	92	93	99	101	103	103	112	115	125

Obtain the 5-no. summary and construct the boxplot for this data set.

## Homework.

1. Section 1.4: (pp. 43 - 45) # 55, 57, 61.