

Graphical Procedures

- The U.S. National Center for Health Statistics compiles data on the length of stay by patients in short-term hospitals and publishes its findings in Vital and Health Statistics. A random sample of 21 patients yielded the following data on length of stays, in days.

5	28	1	24	15	13	9
3	1	7	6	2	10	12
4	5	18	6	9	9	13

1. Construct a frequency and relative frequency tables using the following class intervals:
 $0 < 5, 5 < 10, \dots, 25 < 30$.

2. Construct a frequency histogram.

3. Construct a split stem-and-leaf plot(stemplot).

- **Practice:** Consider the IQ test scores for 60 randomly chosen fifth-grade students.

145	139	126	122	125	130	96	110	118	118
101	142	134	124	112	109	134	113	81	113
123	94	100	136	109	131	117	110	127	124
106	124	115	133	116	102	127	117	109	137
117	90	103	114	139	101	122	105	97	89
102	108	110	128	114	112	114	102	82	101

1. Construct a frequency and relative frequency tables using the following class intervals:
 $80 < 90, 90 < 100, \dots, 140 < 150$. Then construct a frequency histogram.

2. Construct a stem-and-leaf plot(stemplot).