Frequency Distribution Worksheet

1. The number of hours taken by transmission mechanics to remove, repair, and replace transmissions in one of the Transmission Fix-It stores one day last week are recorded as follows:

2.9	3.4	5.4	3.6	2.7
4.4	5.4	3.2	4.6	3.3
2.3	3.3	6.7	2.2	4.4
5.5	3.3	6.7	8.7	4.1

Construct a **frequency distribution** with **5** intervals/**classes**

2. Here are the ages of 50 members of a county social service program:

81	53	67	60	80	64	56	54	91	61
66	88	67	65	52	72	74	65	73	69
43	54	76	70	97	68	82	75	79	60
39	87	76	97	86	45	60	43	65	76
92	72	82	80	70	65	50	58	70	56

7-Interval Σ

3. High Performance Bicycle Products Company in Chapel Hill, NC sampled its shipping records for a certain day with these results:

4	12	8	14	11	6	7	13	13	11
11	20	5	19	10	15	24	7	29	6

Construct a   frequency distribution of the data. Use 5 equal class widths that will include all of the data.

What is the class width?

5. The president of Ocean Airlines is trying to estimate when the Civil Aeronautics Board (CAB) is most likely to rule on the company's application for a new route between Charlotte and Nashville. Assistants to the president have assembled the following waiting times for applications filed during the past year. The data are given in days from the date of application until a CAB ruling:

32	38	26	29	32	41	28	31	45	36
45	35	40	30	31	40	27	33	28	30
30	41	39	38	33	35	31	36	37	32
23	45	39	37	38	36	33	35	42	38
34	22	37	43	52	32	35	30	46	36

    a. Construct a   frequency distribution using 10 intervals.

    b. Construct a   frequency distribution using 5 intervals.