PRACTICE QUESTIONS FOR PRESENTATION OF QUANTITATIVE DATA

EXERCISE 1.3

1. **Grams per Food Serving** The data shown are the number of grams per serving of 30 selected brands of cakes. Construct a frequency distribution using 5 classes.

32	47	51	41	46	30
46	38	34	34	52	48
48	38	43	41	21	24
25	29	33	45	51	32
32	27	23	23	34	35

Source: *The Complete Food Counts.*

2. **Weights of the NBA's Top 50 Players** Listed are the weights of the NBA's top 50 players. Construct a grouped frequency distribution and a cumulative frequency distribution.

240	210	220	260	250	195	230	270	325	225
165	295	205	230	250	210	220	210	230	202
250	265	230	210	240	245	225	180	175	215
215	235	245	250	215	210	195	240	240	225
260	210	190	260	230	190	210	230	185	260

Source: www.msn.foxsports.com

3. **NFL Salaries** The salaries (in millions of dollars) for 31 NFL teams for a specific season are given in this frequency distribution

Class limits	Frequency
39.9–42.8	2
42.9–45.8	2
45.9–48.8	5
48.9–51.8	5
51.9–54.8	12
54.9–57.8	5

Source: NFL.com

Construct a histogram, a frequency polygon, and an ogive for the data; and comment on the shape of the distribution.

4. **How Quick Are Older Dogs?** The animal trainer selected a group of dogs who were much older than the first group and measured their reaction times to the same stimulus. Construct a histogram, a frequency polygon, and an ogive for the data.

Class limits	Frequency
2.3–2.9	1
3.0–3.6	3
3.7–4.3	4
4.4–5.0	16
5.1–5.7	14
5.8–6.4	4

5. **Quality of Health Care** The scores of health care quality as calculated by a professional risk management company are listed for selected states. Use the data to construct a frequency distribution with 6 classes, a histogram, a frequency polygon, and an ogive.

118.2	114.6	113.1	111.9	110.0	108.8	108.3	107.7	107.0	106.7
105.3	103.7	103.2	102.8	101.6	99.8	98.1	96.6	95.7	93.6
92.5	91.0	90.0	87.1	83.1					

Source: *New York Times Almanac.*