throughout a field of oats (there were six boards for each color). Here are the Which color attracts heetles hest? An experiment looked at the number of beetles trapped on sticky boards of identical size but various colors placed

	Yellow	White	Green	Blue	Board color
,	45	21	37	16	
	59	12	32	11	Д·
	48	14	20	20	nsects t
	46	17	29	21	rapped
	38	13	37	14	
	47	20	32	7	

4 Side-by-side boxplots

comparing the number of beetles trapped per board for each color (blue, green, white, and yellow).

(b) Briefly compare the four distributions. What are the major differences? Which color or colors seem to attract beetles best?

10) for each group. Were these measures to Compute the mean (\overline{x}) and Standard deviation (S(f)) Based on these data, can we conclude that the average stress score for all male compare the four groups.

similar study in the United States resulted in a sample mean of 29.2 pounds with a sample standard deviation of 2 pounds. Find the coefficient of variation of 12.74 kilograms with a sample standard deviation of 1.60 kilograms. A A study of weights of 2-year-old girls in Great Britain yielded a sample mean for each group. Which group exhibits greater variability?

> are to be compared. These data are obtained: (Based on data reported in Earl Burch, means of the Hamilton anxiety score. These scores fall on a scale from 1 to 25 with pinpoint variables that contribute to stress in these patients. Stress is measured by A study of male cardiac clinic patients is conducted. The purpose of the study is to L. and Jeffery Brandenburg, "Variables Contributing to Distress in Male Cardiac 18 denoting moderate stress and 25 denoting severe stress. Two groups of patients

Firmg	Living alone			Living	Living with others	iers	
90	9.0	9.3	9,6	13.2	154	175	18.5
5	13.5	26	00 دیا	14.7	16.9	140	13 1
EE.	11.0	10.3	8.1	14.2	16.0	13.6	14.6
4	8.7	10.7	9.4	15.6	17.3	18.1	15.2
E	20	12.9	11.6	18.0	•	1	170

(a) Construct stem-and-leaf diagrams for each group

(d) Construct a back-to-back stem-and-leaf diagram for these data (c) Does either distribution appears to be skewed? If so, in what direction? (d) Construct a back-to-back stem-and-leaf diagram.

(e) Which group tends to have a lower average stress score?

cardiac patients living alone falls below that of all male cardiac patients living with others? Explain.

(P) (M) (S)