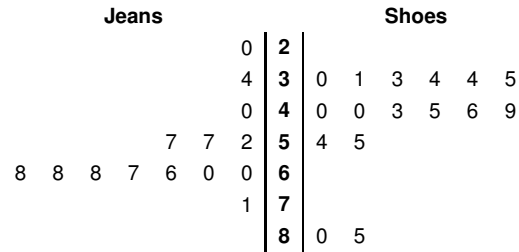


Data Displays Review

1. A back-to-back stem plot is used to compare two similar sets of data. One side of the stem plot has one set of data and the other side has a different set of data.

Prices at Paisley's Clothing Store



Key: 2 | 5 | 4 means
\$52 for jeans and \$54 for shoes

- a. Describe the variability in the distribution of prices of shoes.
- b. Describe the variability in the distribution of prices of jeans.
- c. Compare the prices of jeans to the prices of shoes. Use data in the display to support your statement.

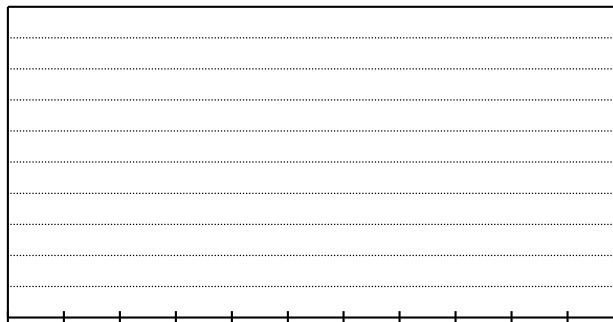
2. Chyna was analyzing the test score for her class.

Class Test Scores

9	38	45	49	54
58	59	62	64	68
68	70	74	74	74
76	78	80	82	82
85	87	88	88	88
88	89	91	92	100

- a. Make a stem-and-leaf plot for the scores. Be sure to include a title and a key!

- b. Make a histogram for the scores. Be sure to include labels and a title!



- c. Describe the variability in the distribution of test scores.

3. Fletcher wants to buy an autographed picture of Justin Bieber. Olive wants to buy an autographed picture of Mr. Ohashi. They went on Ebay and found that signed pictures have sold for the prices shown in the tables.

Justin Bieber Autographed Picture Prices

11	14	18	18	19	20
22	22	25	26	26	27
30	30	35	35	36	39
45	49	49	55	75	79

Mr. Ohashi Autographed Picture Prices

15	20	20	32	35	40
40	42	45	49	50	52
54	54	55	60	60	60

- a. Make a back-to-back stem-and-leaf plot for the prices. Be sure to include a title and a key!
- b. Which is more expensive? Justify your answer with data from the display.
4. Solve the following inequalities and graph each solution. Show your work.
- a. $-9x + 15 \leq -12$ b. $\frac{x}{-4} - 13 > 2$ c. $\frac{x + 12}{-5} > -8$

5. Cameron has scored 29, 22, and 17 on his first three quizzes. What would he have to score on his fourth quiz in order to have a mean of at least 24?

Write an inequality and solve it. Show your work!

6. The mean of Lexi's first four test scores is 93. What would the score of her next test have to be so that the mean of all five tests is at least 90?

Write an inequality and solve it. Show your work!