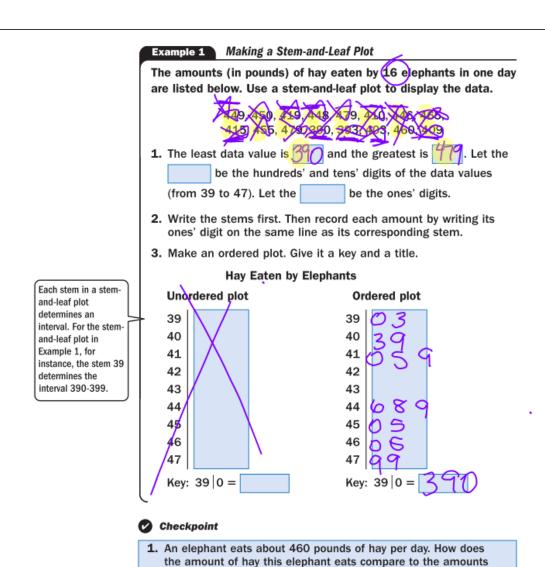
Stem-and-Leaf Plots and Histograms

Goal: Make stem-and-leaf plots and histograms.

Vocabulary	Stem	leaf	82 84 AT 45	2 80	
Stem-and-leaf plot:	8 9	249	<u>key</u> 8/z = 82		
Frequency: how often an event occirs					
Frequency table:	frequency oups data	table is anothe into intervals t	n type of display that a show frequencies		
Histogram:	histogran	n displays data	from a frequency table		



in Example 1?

Example 2 Making a Frequency Table

Ticket Prices The average ticket prices (rounded to the nearest dollar) charged by Major League Baseball teams in a recent year are listed below. Make a frequency table for the data.

23, 24, 20, 19, 20, 20, 19, 16, 17, 18, 17, 17, 14, 15, 14, 13, 15, 13, 12, 17, 12, 12, 12, 12, 11, 8, 10, 11, 10, 9

Solution

To choose the interval

table to have. Use the

approximate interval

size for a frequency table, divide the

the number of intervals you want the

quotient as an

size.

table, divide the range of the data by

1. Choose intervals of equal size for the data.

2. Use a tally mark to record the interval in which each data value falls.

3. Write the frequency for each interval by counting the number of tally marks for the interval.

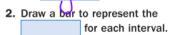
Prices	Tally	Frequency	
8-10	III	4	
11-13	JH 1111	9	
14-16	M	5	
17-19	IM		
20-22		3	
23-25	N .	2	

30

Example 3 Making and Interpreting a Histogram

Make a histogram using the frequency table in Example 2.
Then make a conclusion about the data.

1. Show the intervals from the frequency table on the axis, and show the frequencies on the axis.



3. Give the histogram a title.



Answer: From the histogram, about % of the teams charge \$20 or more per ticket.