

## Practice Set 2 Summarizing Data

I. Darin recently collected the following Walkman CD Recorder sales data.

Units sold per day: 17, 22, 17, 8, 12, 15, 14, 16, 21, 29, 16

A. Make an array and calculate the range of this data.

Array: 8, 12, 14, 15, 16, 16, 17, 17, 21, 22, 29

Range:  $H - L = 29 - 8 = 21$

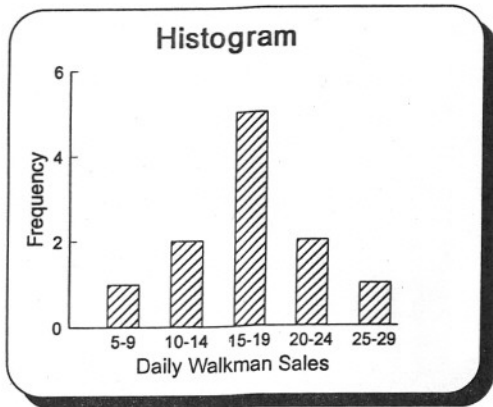
B. Calculate an appropriate class width for this data.

$$\frac{\text{range}}{\# \text{ of classes}} = \frac{29 - 8}{5} = 4.2 \rightarrow 4 \text{ or } 5$$

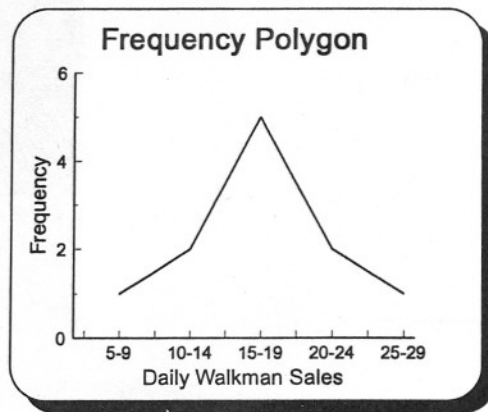
II. Use the first three columns of this chart to make a 5-class frequency distribution. Use stated class limits for the first class of 5 - 9 sales units. Then answer the following questions.

Darin's Music Emporium Daily Walkman Sales Data					
Stated Class Limits	Tally	Frequency (f)	Relative Frequency $f \div n$	Cumulative Frequency	
				More-than	Less-than
5 - 9	I	1	0.09	11	0
10 - 14	II	2	0.18	10	1
15 - 19	III	5	0.46	8	3
20 - 24	II	2	0.18	3	8
25 - 29	I	1	0.09	1	10
Total frequency (n)		11	1.00	0	11

A. Draw or print a histogram.



B. Draw or print a frequency polygon.



C. Draw or print a less-than cumulative relative frequency polygon and a relative frequency polygon.

First answer requires dividing the less-than chart data by 11 or adding the relative frequencies.

