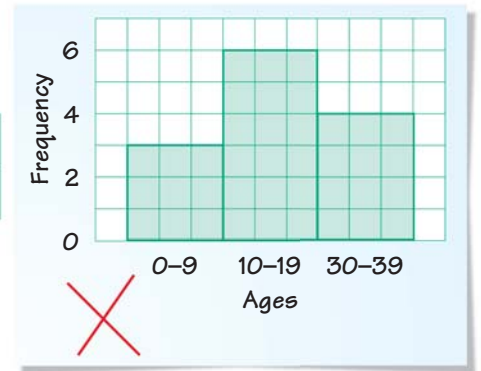


**EXAMPLE 3**

on p. 882  
for Exs. 10–14

10. **ERROR ANALYSIS** Describe and correct the error in creating a histogram using the frequency table below.

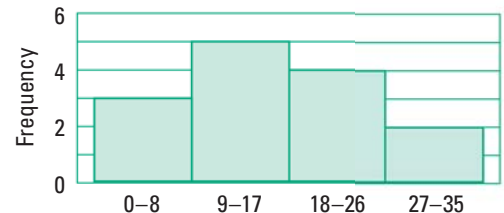
Ages	0–9	10–19	20–29	30–39
Frequency	III			IIII

**HISTOGRAMS** Make a histogram of the data.

11. 55, 82, 94, 75, 61, 69, 77, 98, 81, 83, 75, 90, 51  
 12. 12, 0, 22, 31, 14, 7, 7, 45, 31, 28, 21, 25, 25, 18  
 13. 0.01, 0.13, 0.09, 1.10, 1.33, 0.99, 0.50, 0.95, 1.05, 1.50, 0.75, 1.01  
 14. 111, 109, 224, 657, 284, 120, 119, 415, 180, 105, 208, 108
15. **WRITING** Explain why a histogram can show the distribution of the data below better than a stem-and-leaf plot.

15, 21, 18, 10, 12, 11, 17, 18, 16, 12, 20, 12, 17, 16

16. **CHALLENGE** Create a stem-and-leaf plot that has the same distribution of data as the histogram shown. Explain the steps you took to create the stem-and-leaf plot.

**PROBLEM SOLVING****EXAMPLE 1**

on p. 881  
for Ex. 17

17. **HEIGHTS** The heights (in inches) of players on a boys' basketball team are as follows: 80, 76, 81, 69, 81, 78, 74, 68, 78, 74, 81, 72, 69, 81, 70. Make a stem-and-leaf plot of the heights.

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**EXAMPLE 3**

on p. 882  
for Exs. 18–19

18. **SURVEY** A survey asked people how many 8 ounce glasses of water they drink in one day. The results are below. Make a histogram of the data.

3, 0, 9, 1, 4, 2, 11, 5, 3, 6, 0, 5, 7, 8, 5, 2, 9, 6, 10, 2, 4

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19. **MEMORY** A survey asked people how many phone numbers they have memorized. The results are shown in the table.

Phone numbers	1–5	6–10	11–15	16–20	21–25
Frequency	88	85	50	28	14

- a. Make a histogram of the data.  
 b. What is the probability that a person surveyed, chosen at random, has 11–25 phone numbers memorized?