

12-4 Skills Practice

Histograms

Display each set of data in a histogram.

1.

Shots per Hockey Game		
Number of Shots	Tally	Frequency
1-7		5
8-14		1
15-21		8
22-28		2
29-35		4

2.

Employees in Each Office		
Number of Employees	Tally	Frequency
10-19		2
20-29		6
30-39		9
40-49		8
50-59		1

3.

Basketball Backboards on Each Playground		
Number of Backboards	Tally	Frequency
0-4		16
5-9		3
10-14		8
15-19		11
20-24		0
25-29		4

4.

Population of Loons on Local Lakes		
Number of Loons	Tally	Frequency
30-39		2
40-49		0
50-59		6
60-69		9
70-79		17
80-89		4

12-4 Practice

Histograms

Display each set of data in a histogram.

1.

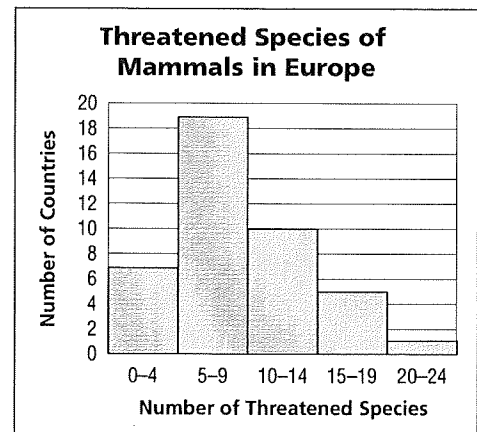
Ages of Zoo Volunteers		
Age	Tally	Frequency
18–27		3
28–37		8
38–47		16
48–57		12
58–67		5
68–77		2

2.

Crossword Puzzle Solving Times		
Time (min)	Tally	Frequency
0–4		3
5–9		1
10–14		6
15–19		14
20–24		0
25–29		2

For Exercises 3–6, use the histogram at the right.

- What size are the intervals?
- How many countries have nine or fewer threatened species?
- Which interval contains the median number of endangered species?
- Can you tell from the histogram whether any of the countries have zero threatened species? Explain.

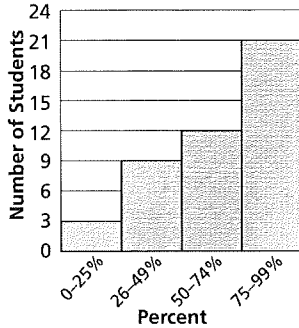


Source: www.redlist.org

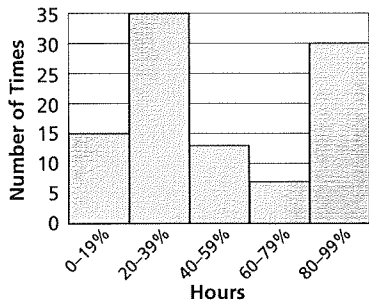
12-4 Word Problem Practice

Histograms

- 1. MUSIC** Students in grades 6–12 were asked, “Of the songs you listen to, what percent of the songs’ lyrics do you know?” The histogram shows the results. How many students responded in all?

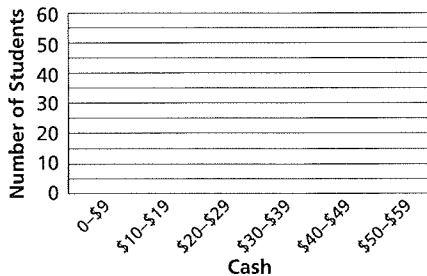


- 2. VOLUNTEERING** The histogram shows how many hours per year a group of teens said they spend volunteering. How many hours did most of them volunteer?



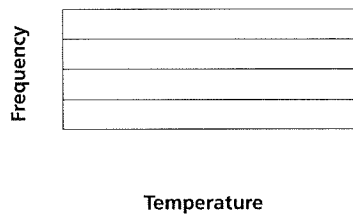
- 3. MONEY** A group of students were asked How much cash (in bills) is in your wallet right now? Construct a histogram to represent the data.

Amount	Number of Students
0-\$9	54
\$10-\$19	20
\$20-\$29	16
\$30-\$39	5
\$40-\$49	4
\$50-\$59	1



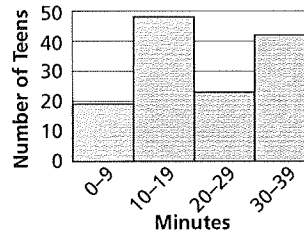
- 4. WEATHER** The list below shows the highest recorded temperature of the 20 largest U.S. cities. Display the data in a histogram.

122	110	111	106	109
105	104	104	105	102
104	106	102	104	108
112	113	109	111	103



- NEWSPAPERS** For Exercises 5 and 6, use the histogram below.

Teens ages 13 to 18 who read a newspaper at least once a week were asked How many minutes a day, on average, do you spend reading the newspaper? The responses are displayed in the histogram.



5. How many teens said they read a newspaper for less than 30 minutes?
6. How many teens were surveyed in all?