

Practice: Word Problems

Bar Graphs and Histograms

PUPPIES For Exercises 1 and 2, use the table below. It shows the results of a survey in which students were asked what name they would most like to give a new pet puppy.

Name	Votes
Max	15
Tiger	5
Lady	13
Shadow	10
Molly	9
Buster	2

3. Make a histogram of the data.

Highest Wind Speeds

EARTH SCIENCE In Exercises 3–6, use the table below. It shows the highest wind speeds in 30 U.S. cities.

Highest Wind Speeds (mph)

52	75	60	80	55	54	91	60	81	58
53	73	46	76	53	46	73	46	51	49
57	58	56	47	65	49	56	51	54	51

4. What is the top wind speed of most of the cities?

5. How many cities recorded wind speeds of 80 miles per hour or more?

6. How many cities recorded their highest wind speeds at 60 miles per hour or more?

ZOOS For Exercises 3 and 4, use the table at the right. It shows the number of species at 37 major U.S. public zoological parks.

3. Make a histogram of the data. Use intervals of 101–200, 201–300, 301–400, 401–500, 501–600, 601–700, and 701–800 for the horizontal axis.

Animal Species in Zoos

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Number of Species

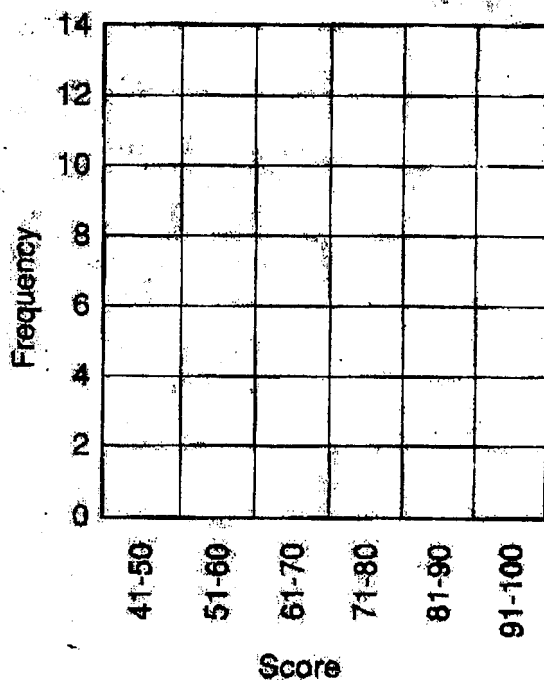
200	700	290	600	681
300	643	350	794	400
360	600	134	200	800
305	384	500	330	250
530	715	303	200	475
465	340	347	300	708
184	800	375	350	450
337	221			

4. Which interval has the largest frequency?

Complete each table. Write the letter for each frequency in the box above the corresponding value at the bottom of the page. Make a histogram for each set of data.

Test Scores for 40 Students									
80	89	66	73	60	97	53	79	70	58
71	98	44	88	80	69	72	83	86	76
91	77	61	83	57	86	49	77	75	95
64	85	75	72	94	66	84	77	86	82

Score	Tally	Frequency
41-50		(I)
51-60		(E)
61-70		(H)
71-80		(Y)
81-90		(A)
91-100		(T)



EXERCISES

Make a stem-and-leaf plot for each set of data. Then find the range, median, and mode of the data.

1. 15, 25, 16, 28, 1, 27, 16, 19, 28

2. 1, 2, 3, 2, 3, 1, 4, 2, 5, 7, 12, 11, 11, 3, 10

3. 3, 5, 1, 17, 11, 45, 17

4. 4, 7, 10, 5, 8, 12, 7, 6