

THE LONG AND SHORT OF NAMES

Make a histogram to compare name lengths in your class!

Do you know who would've had a hard time filling out his name on a standardized-test form? Adolph Blaine Charles David Earl Frederick Gerald Hubert Irvin John Kenneth Lloyd Martin Nero Oliver Paul Quincy Randolph Sherman Thomas Uncas Victor William Xerxes Yancy Zeus Wolfeschlegelsteinhausenbergerdorffvoralternwarengewissenhaftschafererswessenschafewaren-

wohlgepflegeundsorgfaltigkeitbeschutzenvonangreifendurchihrraubgierigfeindewelchevoralternzwolftausendjahresvorandieerscheinenwanderersterdemenschderraumschiffgebrauchlichtalsseinursprungvonkraftgestartseinlangefahrtinzwischensternartigraumaufersuchenachdiesternwelchegehabtbewohnbarplanetenkreisedrehensichundwohinderneurassevonverstandigmensschlichkeitkonntefortplanzenund-

sicherfreuenanlebenslanglichfreudeundruhemitnichtefurchtvorangreifenvonandererintelligentgeschopfsvonhinzwischensternartigraum Senior. Mr. Wolfe (for short) was born in Germany in 1904. At 590 letters, his last name was in the *Guinness World Records* book as the longest anywhere!

Your name is *probably* a bit shorter than that. Still, you might be surprised at the range of name lengths in your class: some short, some long, and some in-between. What's a great way to compare them? Its name is 9 letters long: histogram!

—by Maureen Ker

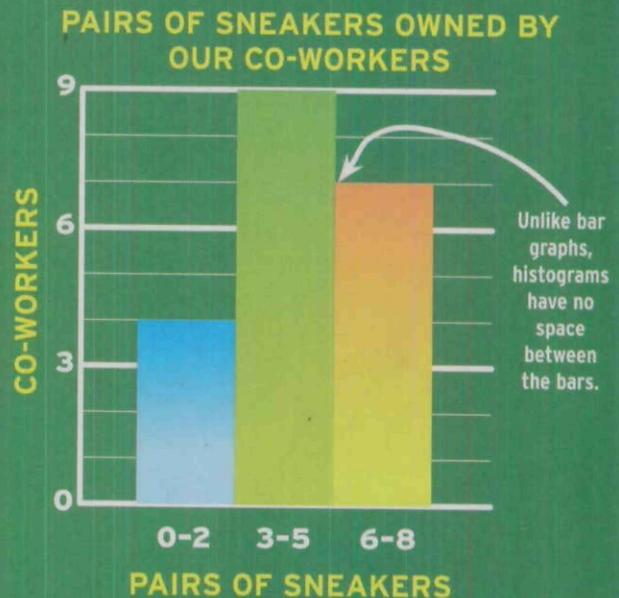
HISTOGRAMS

A *histogram* is a type of bar graph in which each bar represents a specific *interval* of answers. (For example, if the data was the number of pizzas sold at a restaurant in a day, the different intervals could be: 1-10, 11-20, 21-30, etc.) Here's how to make a histogram:

- ✓ First, collect your *data*. For example, we asked 20 co-workers how many pairs of sneakers they own. Here are their answers (our data): 8, 3, 6, 3, 3, 1, 6, 3, 2, 0, 7, 2, 3, 4, 3, 6, 5, 6, 3, 7.
- ✓ Next, look at the *range* of your data. Our least answer was 0 and the greatest answer was 8.
- ✓ Divide that range into equal intervals. We picked intervals of 3 pairs of sneakers each: 0-2 pairs, 3-5 pairs, and 6-8 pairs. (Try not to have too many intervals.)
- ✓ Make a table, placing each piece of data into one of the intervals.

Pairs of Sneakers	Co-Workers
0-2	4
3-5	9
6-8	7

- ✓ Finally, use the table to draw the histogram:



- ✓ Remember to give your histogram a title, and to label your horizontal and vertical axes.

WHAT TO DO

- ✓ Ask your classmates to count the total number of letters in their first, middle, and last names.
- ✓ Follow the directions above—using your class's data and the answers to questions 1 to 4—to make a histogram on a separate sheet of paper.

2 Look at the range from least to greatest. You'll want to divide that range into a number of equal intervals. (If the range doesn't divide evenly, you can expand it a little.) How many letters will be in each interval on your histogram?

3 How many bars do you need for your data?

4 Say you labeled the *x*-axis "Number of letters in name." What would you label the *y*-axis?

1a. What is the least number of letters in your data?

b. What is the greatest number of letters in your data?

HELLO
my name is



THINK ABOUT IT

Would the histogram look different if you used only first names?

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