

How To Make a Histogram

Data: How many minutes did you spend on internet last time you were on:

50 40 41 17 11 7 22 44 28 21 19 23 37 51 54 42 86
41 78 56 72 56 17 7 69 30 80 56 29 33 46 31 39 20
18 29 34 59 73 77 36 39 30 62 54 67 39 31 53 44

1. Decide how many classes (bars) to use. (5-10) ^{use}
2. Find the range (max-min) of your data.
(Min: $86 - 7 = 79$)
3. Find the class width (bar width) by dividing
Step 2 $\div$ Step 1 and round up
 $\left(\frac{79}{7} = 11.29... \Rightarrow 12 \leftarrow \text{class/bar width}\right)$
4. Get your class (bar) boundaries by using
your min piece of data and adding the class
width repeatedly until you get all the classes (bars)
selected in step 1.

7-
+12 19-
+12 31-
+12 43-
+12 55-
+12 67-
+12 79-

NOW
fill in
other ends.
They'll be one
less than next
below it, to
the left

$\Rightarrow$

7-18
19-30
31-42
43-54
55-66
67-78
79-90

STOP -
using 7 classes

$\uparrow$ This column of
#s are all 12
apart, too. Not
a coincidence