









## Try This: Example 1B

Use the bar graph to answer the question.

B. About how many more pounds of apples than pounds of grapes were eaten per person?

About 10 pounds more apples were eaten than grapes per person.





# Steps for Making a Double Bar Graph

**Step 1:** Choose a scale and interval for the vertical axis.

**Step 2:** Draw a pair of bars for each data sets. Use different colors the different sets.

**Step 3:** Label the axes and give the graph a title.

**Step 4:** Make a key to show what each bar represents.

# Additional Example 2: Making a Double-Bar Graph

The table shows the speed limits of three states on interstate highways. Make a double-bar graph of the data.

Step 1: Choose a scale and interval for the vertical axis.

80	 		
60	State	Urban	Rural
	 Florida	65 mi/h	70 mi/h
40	Texas	70 mi/h	70 mi/h
20	 Vermont	55 mi/h	65 mi/h
0			







## Try This: Example 2

The table shows the number of pets owned by students in two classes.

Step 1: Choose a scale and interval for the vertical axis.











A histogram is a bar graph that shows the frequency of data within equal intervals. There is no space between the bars in a histogram.



#### **Additional Example 3: Making a Histogram**

The table below shows the number of hours students watch TV in one week. Make a histogram of the data.

Step 1: Make a frequency table of the data. Be sure to use equal intervals.

Number of Hours of TV	Frequency
1–3	15
4–6	17
7–9	17

Νu	umber of	Ηοι	irs o	f TV
1	11	6	111	
2	////	7	444	- 1///
3	HHF-1111	8		
4	144-1	9	++++	-
5	14++-111			

Ac Step 2: Choo scale and intervertical axis. on the scale s as great as the frequency.	Iditional Ex se an approp erval for the The greatest should be at lo ne greatest	value east 20	3 Continued
Number of Hours of TV	Frequency	12	
1–3	15	8	
4–6	17	4	
7–9	17	0	
		1	





#### Try This: Example 3

The table below shows the number of hats a group of students own. Make a histogram of the data.

table of the c to use equal	lata. Be sure intervals.
Number of Hats Owned	Frequency
1–3	12
4–6	18
7–9	24

Number of Hats Owned	Frequency
1	(11)
2	1111
3	1441
4	114-1
5	111++111
6	
7	14441
8	14441111
9	144-1111

	<u>Try T</u>	<u>'his</u> : E	xa	mple 3
Step 2: Choc scale and inte vertical axis. value on the least as great frequency.	ose an approp erval for the The greatest scale should I t as the great	be at 2 est 2	0 · 5 ·	
Number of Hats Owned	Frequency	1	5	
1–3	12	1	0	
4–6	18		5	
7–9	24		0	





#### Steps for Making a Steps for Making a **Double Bar Graph** Histogram Practice A Step 1: Make a frequency 1-4 Bar Graphs and Histograms Step 1: Choose a scale table of the data. Be sure to The bar graph shows the lengths of four rivers. Use the graph for Exercises 1–3. and interval for the vertical **Rivers of the World** use equal intervals. axis. 4.500 Step 2: Choose an appropriate 4,000 Ē 1. Which river is the longest? Step 2: Draw a pair of bars 3,500 scale and interval for the ength for each data sets. Use vertical axis. The greatest value Nile River 3,000 on the scale should be at least 2. About how much longer is the Amazon River than the Congo River? 2,500 different colors the different Approximate as great as the greatest 2.000 sets. 1,500 frequency. about 1,100 mi 1,000 Step 3: Label the axes 3. About how much longer is the Nile River than the Huang River? Step 3: Draw a bar graph for 500 and give the graph a title. each interval. The height of the about 700 mi bar is the frequency for that Huang Amazon Congo Nile River interval. Bars must touch but Step 4: Make a key to show not overlap. what each bar represents. Step 4: Label the axes and give the graph a title.





a double-b	ar graph of the o	data.	Ê 500
State	Length (mi)	Width (mi)	÷ 400-
Florida	500	160	2 300
New York	330	283	
Virginia	430	200	
			State
			Key: 🗖 Length 🔲 Width
The list show	e the howling en	ores of the	Bowling Scores
The list show	vs the bowling so aved by a group	ores of the of bowlers on	Bowling Scores
The list show first game pla Thursday nig	vs the bowling so ayed by a group iht. Make a histo	cores of the of bowlers on gram of the data.	Bowling Scores
The list show first game pla Thursday nig 96, 110, 132	vs the bowling so ayed by a group pht. Make a histo 2, 128, 105, 94,	cores of the of bowlers on gram of the data. 116, 95, 126,	Bowling Scores
The list show first game pl Thursday nig 96, 110, <b>1</b> 32 1 <b>14</b> , 123, 13	vs the bowling so ayed by a group ht. Make a histo 2, 128, 105, 94, 36, 121, 99	cores of the of bowlers on gram of the data. 116, 95, 126,	Bowling Scores
The list show first game pla Thursday nig 96, 110, 132 114, 123, 13	as the bowling so ayed by a group ht. Make a histo 2, 128, 105, 94, 36, 121, 99	cores of the of bowlers on gram of the data. 116, 95, 126,	Bowling Scores