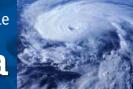
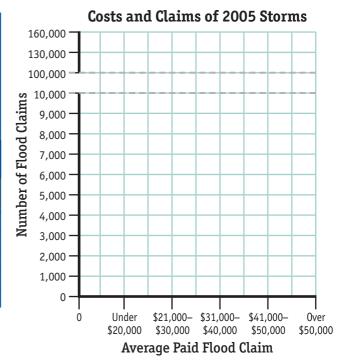
Histograms Manage a Flood of Data



NAME: ______ DATE: _____

ctuaries can use histograms to analyze the frequency of submitted insurance claims after natural events and the range of average claim amounts insurance companies paid to customers over a particular period of time. The information in the table on the left below lists the number of flood insurance claims submitted and average paid flood claim amounts as a result of storms in 2005. An average paid claim is the average of all the flood claims paid by the insurance companies. Read the claims in the table, then answer the questions below.

Much of New Orleans, LA, was flooded after levees broke following Hurricane Katrina in August 2005.			
2005 Storm	Category at Landfall	Number of Flood Claims	Average Paid Flood Claim
Hurricane Dennis	3	3,332	\$26,687
Hurricane Katrina	3	158,786	\$94,750
Hurricane Rita	3	8,602	\$46,089
Tropical Storm Tammy	not applicable	3,600	\$10,213
Hurricane Wilma	3	8 474	\$36,126



Questions:

- 1. Complete the histogram using the information provided in the table.
- 2. Which type of information provided is a "mean" and why is it useful?
- **4.** Based on this information, would you expect that a tropical storm always results in fewer flood claims than a hurricane? ______ Why or why not? _____
- 5. You're the actuary: How would you advise an insurance company about what they should expect to pay during a Category 3 hurricane if they're expecting to have claims on 200,000 policies?

 (Hint: Using the information from the table above, come up with an average claim amount and estimate. Show your work on the back of this page.)