

(7 pts.) 1. A weather station located along the Maine coast in Kennebunkport collects data on temperature, wind speed, wind chill, and rain. The maximum wind speed (in miles per hour) for 50 randomly selected times in February 2013 are given. Remember to show your work for all numeric parts. In addition, please explain your answer in parts d) and e). No work is required in part c)

(1 pt.) a) Approximately how many classes should there be for this data set?

(2 pts.) b) Please fill in the blanks in the following frequency distribution including the total line: You only need to show your work for one row for the relative frequency.

Class	Frequency	Relative Frequency
5 – 10-	4	
10 – 15-	5	
15 – 20-	12	
20 – 25-		
25 – 30-	7	
30 – 35-	4	
Total		

(2 pts.) c) Sketch the **frequency** histogram. You may use computer software for this part.

(1 pt.) d) Describe the shape of the distribution. Please explain your answer.

(1 pt.) e) Are there any outliers? Please explain your answer.