

## IM2 Quiz 1.3 - Paper 1

Name: _		Date:				
Teachers:	Mr. Dunham		Calculator: <b>Active</b>			
Marks	out of 13	Raw Grade:				

While on his recent WWW trip to Japan, Mr. Rawlings collected the following data on the wing lengths of the Japanese Giant Hornets (Vespa mandarinia) that he captured in his spare time. Each length was measured to the nearest millimeter (mm)

34	37	38	38	39	40	40	40	40	41	41	41	42	42	42	42
42	43	43	43	43	43	43	43	43	44	44	44	44	44	44	44
44	45	45	45	45	45	45	45	45	45	46	46	46	46	46	46
46	46	46	46	46	47	47	47	47	47	47	47	47	47	48	48
48	48	48	48	48	48	48	49	49	49	49	49	49	49	50	50
50	50	50	50	51	51	51	51	51	51	52	52	52	53	53	54
54	55	55	57												

1. *[2 marks]* Determine if any of these insects could be considered outliers. Show/Explain your reasoning.

2. *[3 marks]* Draw a boxplot of this data.

3.	[4 marks] Draw a histogram of these data. Label your graph.
4.	[2 marks] Describe as accurately as you can, the distribution of the wing lengths of the Japanese Giant Hornets that were captured.
5.	[2 marks] Approximately what percentage of these hornets have a wingspan between 42mm and 50.5mm? Show/Explain your reasoning.
	g.