

The Basketball Star Task

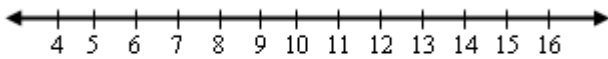
Is Bob or Alan a Basketball Star?

Name: _____ Date: _____

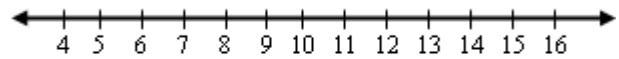
Bob's Points per Game

8, 15, 10, 10, 10, 15, 7, 8, 10, 9, 12, 11, 11, 13, 7, 8, 9, 9, 8, 10,
11, 14, 11, 10, 9, 12, 14, 14, 12, 13, 5, 13, 9, 11, 12, 13, 10, 8, 7, 8

1. Bob believes he is a basketball star and so does his friend Alan. Create a **dot plot** and **box plot** of Bob's points for the last 40 games.



Bob's Points



Bob's Points

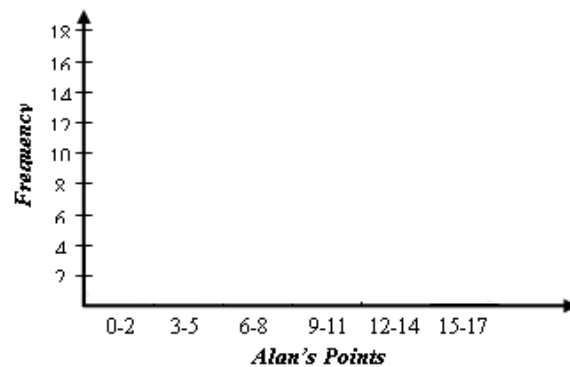
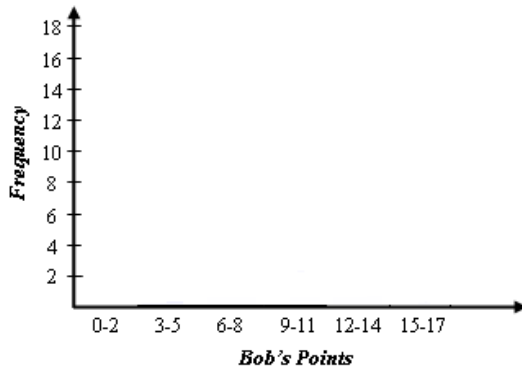
2. Describe Bob's data in terms of **center**, **spread**, and **shape**.

Bob's friend Alan has the following points:

Alan's Points per Game

1, 3, 0, 2, 4, 5, 7, 7, 8, 10, 4, 4, 3, 2, 5, 6, 6, 6, 8, 8, 10, 11, 11,
10, 12, 12, 5, 6, 8, 9, 10, 15, 10, 12, 11, 11, 6, 7, 7, 8

3. Create a histogram of both Bob's and Alan's data.



4. Describe the **shape** of the two histograms from problem #3.

5. Use summary statistics to compare Bob and Alan's points per game.

	Min	Quartile 1 (Q1)	Median (Q2)	Quartile 3 (Q3)	Max	Mean	Range	IQR
Bob								
Alan								

6. Which **graphical representation** best displayed Bob's and Alan's data?

7. Based on the summary statistics, from #5, is either friend a basketball star? If so who and why are they a star?