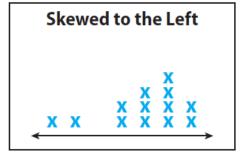
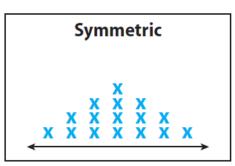
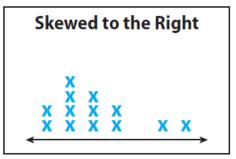
## **Distributions**







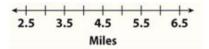
The tail of the data, tells you how it is skewed.

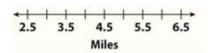
The data table shows the number of miles run by members of two track teams during one day.

Miles	3	3.5	4	4.5	5	5.5	6
Members of Team A	2	3	4	4	3	2	0
Members of Team B	1	2	2	3	4	6	5

Make the dot plot for Team A.

Make the dot plot for Team B.





1) State the distribution for Team A and Team B by looking at the dot plots.

Team A (circle): Skewed Left, Symmetric, Skewed Right

Team B (circle): Skewed Left, Symmetric, Skewed Right

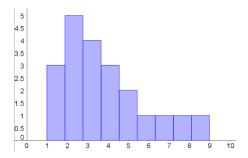
2) Find the <u>mean</u> and <u>median</u> for Team A.  $\bar{x} =$  median =

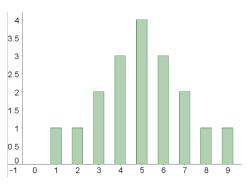
a) What do you noticed about the mean and median for Team A?

b) What do you know about the mean and median of a Symmetric distribution?

- 3) Find the <u>mean</u> and <u>median</u> for Team B.  $\bar{x} =$
- median =
- a) What do you noticed about the mean and median for Team B?
- b) What do you know about the mean and median of a distribution that is skewed to the left?
- 4) What can you concluded about the mean and median for a data set skewed to the right?

- 5) Given the histogram to the right.
  - a) What is the distribution?
  - c) What is the relationship between the mean and median?
- 6) Given the bar chart to the right.
  - a) What is the distribution?
  - c) What is the relationship between the mean and median?





- 7) Given the dot plot to the right.
  - a) What is the distribution?
  - c) What is the relationship between the mean and median?

