Name

I understand that the data in questions involving statistics is varied.

Notes:

Statistics – is the science of collecting, organizing, analyzing, and interpreting data.

A **Statistical Question** – is one for which you do not expect to get a single answer. Instead you expect a variety of answers.

How many inches are in a foot? (Not a statistical question – There is one correct answer.)

How many pets do you have? (Statistical question – There are many different answers.)



Answers from a statistical question can be displayed on a **dot plot**.

"How much does a mouse weigh?"

Distribution of dot plot suggests: Most mice weigh about 20 grams.

Determine whether the question is a statistical question, and explain why.

- 1) What is the hair color of sixth grade students?
- 2) At what temperature (in degrees Fahrenheit) does water boil?
- 3) How many pages are in our math book?
- 4) How many hours do sixth grade students use the Internet in one night?

The table shows the ages of several grandparents of sixth graders. You are asked, "**How old** are grandparents of sixth graders?"

- 5) Is this a statistical question? Explain
- 6) Display the data in a dot plot. Identify any clusters, peaks, or gaps in the data.

Ages			
60	61	59	60
62	56	64	59
58	60	61	60
59	60	58	61

7) Use the distribution of the data to answer the question above.