

9.1 INTRO TO STATISTICS & DOT PLOTS

Guided Notes

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Statistics is the science of , organizing, and interpreting data. A **statistical question** is one for which you do to get a . Instead, you expect a of answers, and you are interested in the and of those answers.

EXAMPLE 1 Answering a Statistical Question

You conduct a science experiment on house mice. Your teacher asks you, "What is the weight of a mouse?"



a. Is this a statistical question? Explain.

⋮ Because

Recall that a dot plot uses a to show the each value in a occurs. Dot plots show the and the of a data set.

b. You weigh some mice and record the weights (in grams) in the table. Display the data in a dot plot. Identify any clusters, peaks, or gaps in the data.

Weights (grams)			
20	19	21	20
18	20	27	21
28	23	20	19
20	21	18	27
19	22	21	20

Draw a number line that includes the least value, and greatest value, . Then place a dot the number line for data value.



Most of the data are clustered around . There is a peak at and a gap between and .

c. Use the distribution of the data to answer the question.

⋮ Most mice weigh

EXAMPLE 2 Using a Dot Plot

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You record the high temperature every day while at summer camp in August. Then you create the vertical dot plot.

- a. How many weeks were you at summer camp?

••• So, you were at summer camp for

- b. How can you collect these data?
What are the units?

•••

- c. Write a statistical question that you can answer using the dot plot.
Then answer the question.

One possible statistical question is:

•••

