Name	Class	Date	
Skills Worksheet			
Active Reading			

Section 2: Statistics and Models

Read the passage below and answer the questions that follow.

Although statistical populations are composed of similar individuals, these individuals often have different characteristics. For example, in the population of students in your classroom, each student has a different height, weight, and so on.

As part of their experiments, the Keene High School students measured the lengths of dwarf wedge mussels in a population. By adding the lengths of the mussels and then dividing by the number of mussels, students calculated the average length of the mussels, which in statistical terms is called the *mean*. A mean is the number obtained by adding up the data for a given characteristic and dividing this sum by the number of individuals. For scientists, the mean provides a single numerical measure for a given aspect of a population. Scientists can easily compare different populations by comparing their means.

IDENTIFYING MAIN IDEAS

One reading skill is the ability to identify the main idea of a passage. The main idea is the main focus or key idea. Frequently, a main idea is accompanied by supporting information that offers detailed facts about the main idea.

Read each question and write the answer in the space provided.

1. Ca	n one individual represent an enti	re population? Why or why not?
2. Ho	ow can scientists compare two diff	ferent populations?
3. Ho	ow is a mean established?	
In the s questi		the term or phrase that best answers each
	4. The mean provides a single ration a. individual b. average	numerical measure for one of a population. c. dwarf wedge mussel d. characteristic

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5. For which mean?	ch characteristic did Ke	eene High School students establish a
a. height	t	c. length
b. weigh		d. taste
6. What did determine a. added numbe b. added musse c. added numbe d. added	d Keene High School s the the mean? the data for the character of mussels the data for the characters the data for the characters the data for the character of mussels the data for the character of mussels	students do with this characteristic to cteristic and divided the sum by the cteristic and multiplied by the number of cteristic and subtracted it from the cteristic with the number of mussels
SEQUENCING INF	ORMATION	
	the ability to sequence er in which they occur	e information, or to logically place item
-	Write "1" on the line i	the steps in the process used in deter- in front of the first step, "2" on the line in
7. Divide the population		the number of individuals in each
8. Compare	e the means of the two	populations.
9. Measure	and record the charact	teristic data of all individuals.
10. Identify	a characteristic commo	on to different populations.
11. Add up t	he characteristic data t	from each population.
RECOGNIZING CA	AUSE AND EFFECT	
One reading skill is	the ability to recogniz	ze cause and effect.
Read the guestion a	and write the answer in	the space provided
	an need to be determin	