

	Name	Do	ate		Pd_		-	
	Lesson 8-4	Bar Gra	phs &	Histogr	rams	(p415	5-421)	
	Steps: 1) 2) 4)			3)				$\overline{\boldsymbol{\lambda}}$
<	Bar Graph:						$\overline{\boldsymbol{\zeta}}$	$\geq$
	Ex:1 Make a bar	• •		data.				
	Top scores of the So	uper Bowl						
	Teams	Scores						
	San Francisco	55						
	Dallas	52						
	Tampa Bay	48						
	Chicago	46						
	Washington	42						
<	Histogram:						$\overline{\boldsymbol{\Lambda}}$	$\overline{\mathbf{a}}$
	Ex:2 Make a hist	togram fo	r the	data.				
	Super Bowl scores							
	54, 32, 35, 17, 18, 42, 27, 28, 35, 45,							
	48, 35, 46, 18, 28, 24, 36, Scores Frequency							
	Scores Frequency							
	21-30							
	31-40							
	41-50							
	51-60							

NAME \_

# 8-8 Get Po

## Lesson Reading Guide

### Using Sampling to Predict

#### Get Ready for the Lesson

Read the introduction at the top of page 438 in your textbook. Write your answers below.

- 1. Suppose she decides to survey the listeners of a rock radio station. Do you think the results would represent the entire population? Explain.
- 2. Suppose she decides to survey a group of people standing in line for a symphony. Do you think the results would represent the entire population? Explain.
- **3.** Suppose she decides to mail a survey to every 100th household in the area. Do you think the results would represent the entire population? Explain.

#### **Read the Lesson**

4. Match the type of sample with its example(s). Put the correct letter on the line.

simple random sample	 <b>a.</b> One or more parts of the population are favored over others.
biased sample	 <b>b.</b> Only those who volunteer take a survey.
unbiased sample	 <b>c.</b> Names are picked randomly out of a hat.
convenience sample	 <b>d.</b> A store manager surveys his first 20 customers.
voluntary response sample	 e. A sample that is representative of the entire population.

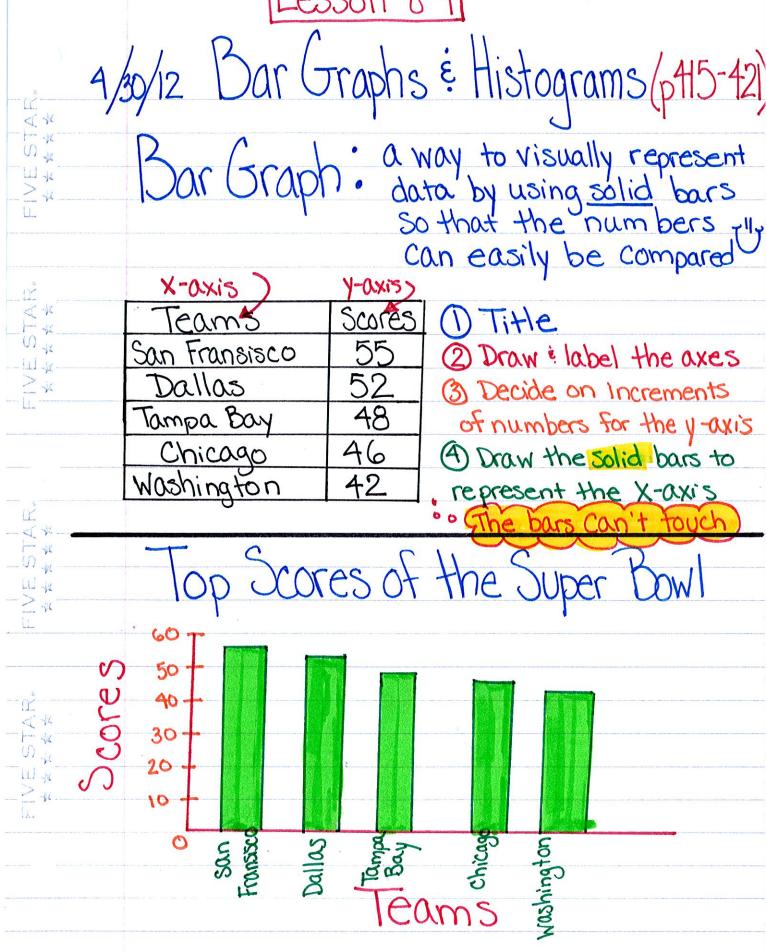
#### **Remember What You Learned**

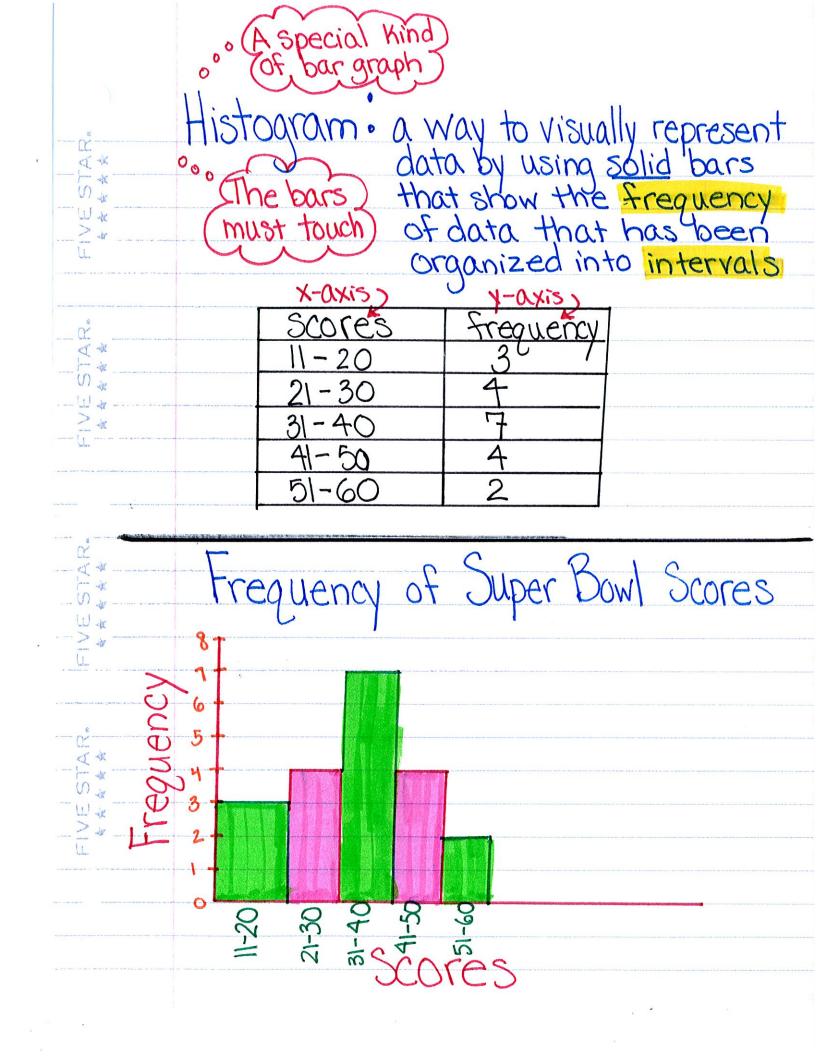
**5.** If you are conducting a survey, explain why it is important to have an unbiased sample.

Lesson 8-2 (p402-408) MEAJURES OF CENTRAL TENDENCY & RANGE (3) Measure of Central Tendency: A number From a set of data used to describe the CENTER () MEDIAN (MIDDLE) = The middle number in a set of data ordered From least to greatest Example: 3 muffins, 5 muffins, 1 muffin of numberst 1, (3,) 5 MEDIAN=3 Example: 44, 46, (48, 52) 53, 55 average when 48+52=100 500= 48+52=1002=50=MEDIANof numbers) 48 49 50 51 52 2 MEAN (AVERAGE): The sum of the data divided the number of items Example: 1+3+5=9 ( Fidd all the sunumbers 9 3= 3=MEAN 2 Divide by the number of items

(3) MODE: The number that occurs the most often Example: 1, 1, 2, 2, 2, 4, 5, 5 MODE: 2 Example: 1, 3, 5 NO MODE Example: 1, 1, 4, 5, 5 MODE: 1,5 Range: The difference between the greatest and least numbers in a set Example: 5-1=

esson 8-4





Lesson 8-5 Using Graphs (p424-425) Q: Why dowe use graphs? A: - Visual Representation that makes the data organized & easier to read Helps us make good conclusions, predictions, & inferences from the data Students now use Teacher Charts 424a to make 5 guistions to ask another groups. (2. groups)

#### \_ PERIOD \_\_

NAME \_

8-8

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#### **Read the Lesson**

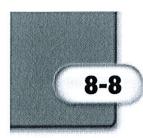
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voluntary response sample	 e. A sample that is representative of the entire population.

#### **Remember What You Learned**

**5.** If you are conducting a survey, explain why it is important to have an unbiased sample.

PERIOD



# **Lesson Reading Guide**

## Using Sampling to Predict

NAME Answer Key

#### Get Ready for the Lesson

#### Read the introduction at the top of page 438 in your textbook. Write your answers below.

**1.** Suppose she decides to survey the listeners of a rock radio station. Do you think the results would represent the entire population? Explain.

probably a Kock Station NO. listeners Ringtone more than 2. Suppose she decides to survey a group of people standing in line for a others symphony. Do you think the results would represent the entire population? Explain. in line Standing for a symphony , people NO. verter 3. Suppose she decides to mail a survey to every 100th household in the area. music than others Do you think the results would represent the entire population? Explain. of all ageo and backgrounds people are more be represented. Read the Lesson

4. Match the type of sample with its example(s). Put the correct letter on the line.

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voluntary response sample	b	e. A sample that is representative of the entire population.

#### Remember What You Learned

5. If you are conducting a survey, explain why it is important to have an unbiased sample.

through an unbiased sample can Results be valid.

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