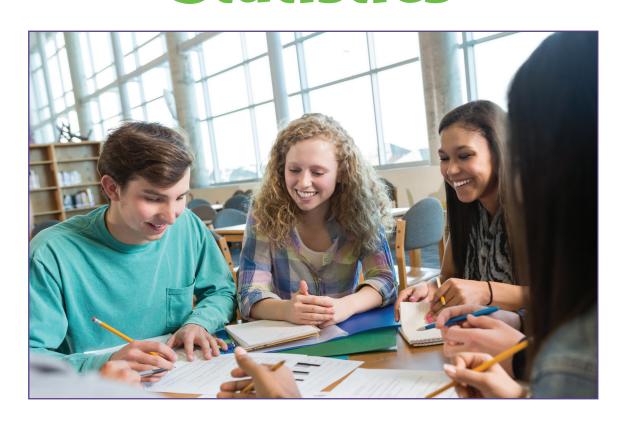
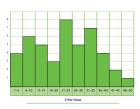
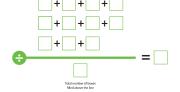
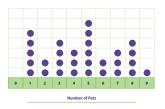
Descriptive Statistics

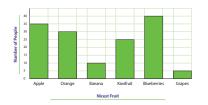


1. Circle the pictures of graphs.









2. Which pencils are horizontal? Put an X on them.





3. Circle the pencil that is vertical.







А	F:II	:	ء ماله	L	ا
4.	FIII	ın	tne	р	lanks:

The mean is the ______.

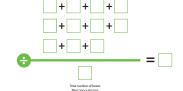
The mode is the ______.

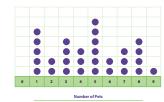
The x-axis is a ______ line.

The *y*-axis is a ______line.

5. Circle the dot plot. Put an X on the histogram.





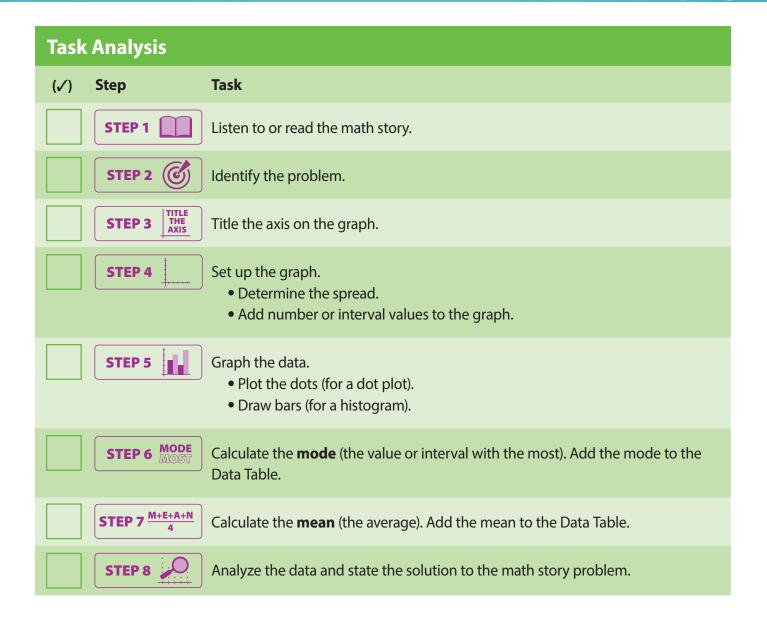




6. Fill in the blanks:

A line going from side to side like the horizon is ______.

A line going up and down like a tall tree is ______.



4 • UNIT 1 • Lesson 2



Listen to or read the math story.

STEP 2



Identify the problem.

Math Story

Zane has a basketball game against a rival team on Friday. His coach told the team to get plenty of rest. Zane wants to be sure he is rested for the game, but he likes to stay up late at night playing video games. He usually gets about 6 hours of sleep per night. He wonders if this is enough sleep to feel well-rested. He decides to ask several of his classmates how many hours of sleep per night they usually get. He will then compare the data he collects from his friends to how many hours he sleeps and decide if he is getting enough sleep.

Zane asked 10 of his classmates who seem to be well-rested how many hours per night they usually sleep. Here is the data set Zane collected:

Data Set

9 hours 10 hours 7 hours 8 hours 9 hours

9 hours 5 hours 8 hours 10 hours 9 hours



STEP 3 TITLE THE AXIS

Title the axis on the graph.

STEP 4

Set up the graph.

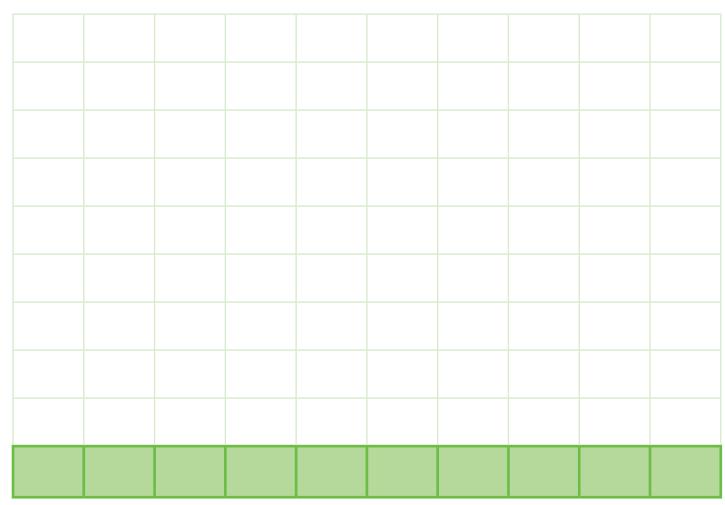
STEP 5

Graph the data.

STEP 6 MODE

Calculate the **mode** (the value or interval with the most). Add the mode to the Data Table.

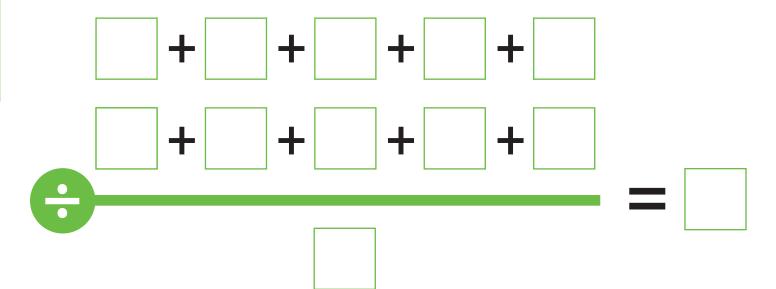
Dot Plot





Calculate the **mean** (the average). Add the mean to the Data Table.

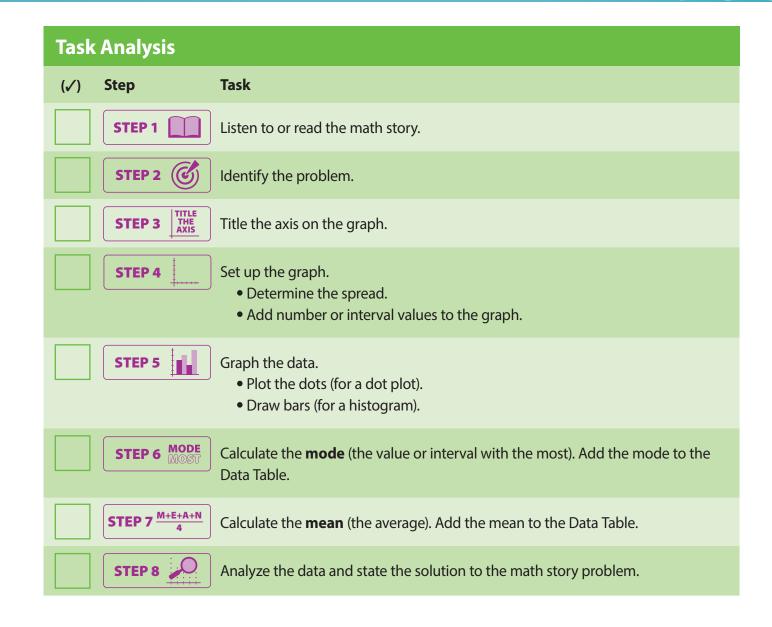
Mean





Analyze the data and state the solution to the math story problem.

Data Table				
		Answer		
Mode MODE MOST	MOST frequent value on the dot plot			
Mean M+E+A+N 4	AVERAGE + + + /# of boxes =			
Is 6 hours of sleep per night enough for Zane to feel well-rested?				
	ne data he collected, how many hours of sleep do you should try to get each night?			



Access Algebra: Student Book



Listen to or read the math story.

STEP 2



Identify the problem.

Math Story

Tameka has a new cell phone. Her parents signed up for a phone plan that gives her unlimited minutes to talk on the phone, but only 10 texts per week. Tameka asked her parents to please change the plan to limit the time she can talk on the phone and give her unlimited texts instead. Her parents said, "No." They are afraid she will talk on the phone much more than she thinks and they will be charged extra money. Tameka decides to use data to try to change her parents' minds.

Tameka asks 9 of her friends how much they talk on their phones each week. Then, she asks them to count the number of texts they sent last week so she can use statistics to show her parents how many texts per week most teens send. Here is what they answered:

Data Set

Only 1 friend talked on her phone at all, and it was just to call home for a ride.

All 9 friends sent texts the previous week:

37 texts 41 texts 32 texts 41 texts 40 texts

40 texts 35 texts 40 texts 36 texts



Access Algebra: Student Book

STEP 3 TITLE THE AXIS

Title the axis on the graph.

STEP 4

Set up the graph.

STEP 5

Graph the data.

STEP 6 MODE

Calculate the **mode** (the value or interval with the most). Add the mode to the Data Table.

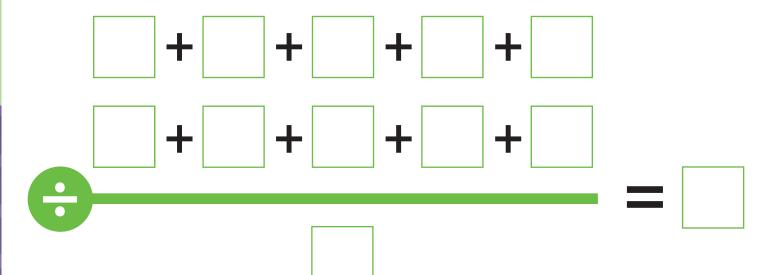
Dot Plot



STEP 7 $\frac{M+E+A+N}{4}$

Calculate the **mean** (the average). Add the mean to the Data Table.

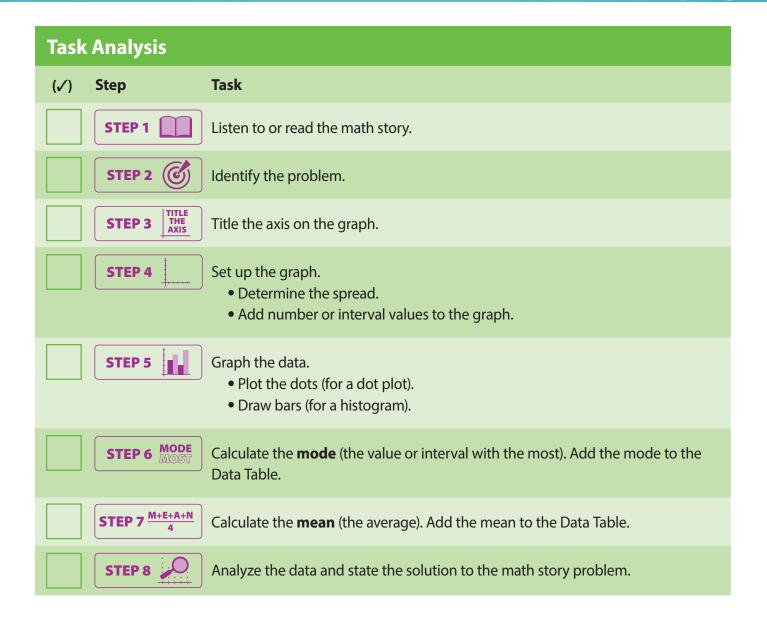
Mean





Analyze the data and state the solution to the math story problem.

Data Table				
		Answer		
Mode MODE MOST	MOST frequent value on the dot plot			
Mean M+E+A+N 4	AVERAGE + + + /# of boxes =			
per week h	he evidence Tameka collected, is the number of texts her friends send more or less than the number of texts allowed to send each week?			
1	nk the statistics Tameka gathered will change her parents' ut switching to a different phone plan?			



• UNIT 1 • Lesson 4 Access Algebra: Student Book



Listen to or read the math story.

STEP 2



Identify the problem.

Math Story

James is starting to investigate job options for when he graduates from high school. He is interested in working at a local bookstore. He is also interested in working in a local business office. Although he thinks he would like both jobs, he wants to know more about how much money each job typically pays. The more money a job pays per hour, the more money James will earn in each paycheck.

To determine which job he should apply for to earn the most money he can, James asked 20 people—10 from each job—how many dollars they make per hour. The data sets below show their answers.



Data Set #1: Bookstore Workers

James asked 10 people who work at local bookstores how much money they make per hour. Here's what they said:

\$10.00	\$9.00	\$8.00	\$9.00	\$10.00
\$10.00	\$9.00	\$10.00	\$11.00	\$12.00



Data Set #2: Office Workers

James asked 10 people who work at a business office how much money they make per hour. Here's what they said:

\$10.00	\$10.00	\$12.00	\$11.00	\$13.00
\$10.00	\$9.00	\$9.00	\$9.00	\$9.00

STEP 3 TITLE THE AXIS

Title the axis on the graph.

STEP 4

Set up the graph.

STEP 5

Graph the data.

STEP 6 MODE MOST

Calculate the **mode** (the value or interval with the most). Add the mode to the Data Table.



Dot Plot Data Set #1





Dot Plot Data Set #2



STEP 3 TITLE THE AXIS

Title the axis on the graph.

STEP 4

Set up the graph.

STEP 5

Graph the data.

STEP 6 MODE

Calculate the **mode** (the value or interval with the most). Add the mode to the Data Table.

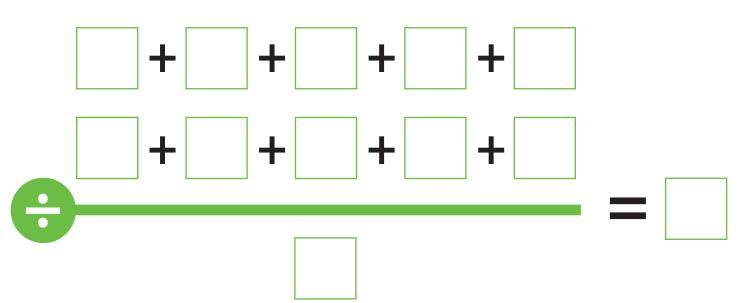
Access Algebra: Student Book

STEP 7 M+E+A+N 4

Calculate the **mean** (the average). Add the mean to the Data Table.



Mean Data Set #1

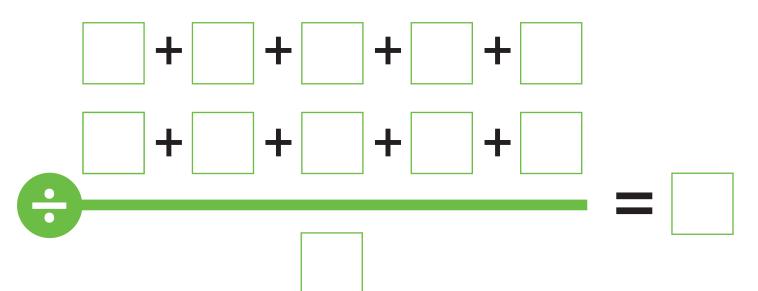




STEP 7 $\frac{M+E+A+N}{4}$

Calculate the **mean** (the average). Add the mean to the Data Table.





Analyze the data and state the solution to the math story problem.

Data Table					
	Answers				
	Bookstore Workers (Data Set #1)	Office Workers (Data Set #2)			
Mode MOST frequent value on the dot plot					
Mean AVERAGE M+E+A+N 4					
Do both jobs pay at least 1 worker \$9.00 per hour?					
Based on the data he collected, which job should James apply for to try to earn the most money he can?					

20 • UNIT 1 • Lesson 4 Access Algebra: Student Book