


1. Circle the pictures of graphs.

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

3. Circle the pencil that is vertical.


4. Fill in the blanks:

The mean is the $\qquad$ .

The mode is the $\qquad$ .

The $x$-axis is a $\qquad$ line.

The $y$-axis is a $\qquad$ 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 $\qquad$ .

A line going up and down like a tall tree is $\qquad$ .


## STEP 1

Listen to or read the math story.

## STEP 2

Identify the problem.
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$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


## 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


UNIT 1 • Lesson 2 • 5

## STEP 3 <br> TITLE THE AXIS

Title the axis on the graph.

## STEP 4

$\square$
Set up the graph.

## STEP 5

Graph the data.

$$
\text { STEP } 6 \text { MODE }
$$

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


|  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

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

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


## Mean



Total number of boxes
filled above the line

## STEP 8 <br> 

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


## Data Table

|  | Answer |
| :---: | :---: |
| Mode MOST frequent value on <br> MODE the dot plot |  |
| AVERAGE <br> M+E+A+N $\qquad$ $+\ldots+$ $\qquad$ $+\ldots+$ $\qquad$ /\# of boxes = |  |
| Is 6 hours of sleep per night enough for Zane to feel well-rested? |  |
| Based on the data he collected, how many hours of sleep do you think Zane should try to get each night? |  |



## STEP 1

Listen to or read the math story.


Identify the problem.
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$\qquad$


## 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


## STEP $3 \stackrel{\text { ITTLE }}{\text { THE }}$ $\underset{\text { AXIS }}{\text { THE }}$

Title the axis on the graph.

## STEP 4

耳
Set up the graph.


Graph the data.

## STEP 6 MODE MOSひ

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

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

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


## Mean



Total number of boxes
filled above the line

## STEP 8



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


## Data Table

|  | Answer |
| :---: | :---: |
| Mode MOST frequent value on <br> MODE the dot plot |  |
| Mean AVERAGE <br> $\mathbf{M}+\mathrm{E}+\mathrm{A}+\mathrm{N}$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $+\ldots+$ $\qquad$ /\# of boxes = |  |
| Based on the evidence Tameka collected, is the number of texts per week her friends send more or less than the number of texts Tameka is allowed to send each week? |  |
| Do you think the statistics Tameka gathered will change her parents' minds about switching to a different phone plan? |  |



## STEP 1

Listen to or read the math story.


Identify the problem.
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$\qquad$
$\qquad$
$\qquad$


## 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:

| $\$ 10.00$ | $\$ 10.00$ | $\$ 12.00$ | $\$ 11.00$ | $\$ 13.00$ |
| :--- | :--- | :--- | :--- | :--- |
| $\$ 10.00$ | $\$ 9.00$ | $\$ 9.00$ | $\$ 9.00$ | $\$ 9.00$ |


\section*{STEP $3 |$| TITLLE |
| :--- |
| THE | THE

AXIS}

Title the axis on the graph.


Set up the graph.


Graph the data.

## STEP 6 <br> MODE MOSJ

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


Dot Plot Data Set \#1


## STEP $3 \underset{\text { THE }}{\text { TITLE }}$ Axis

Title the axis on the graph.

## STEP 4

$\square$
Set up the graph.


Graph the data.

## STEP 6 MODE <br> MOST

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

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

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

## Mean Data Set \#1



Total number of boxes
filled above the line

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

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


Mean Data Set \#2


Total number of boxes filled above the line

## STEP 8



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


## Data Table


