



UNIT 8: DATA

20 days of math lesson plans, PowerPoints & activities

PICTURE GRAPHS

LABEL
tells the type of data being collected

TITLE
describes what the graph is showing

Favorite Subjects

Unit 8 Assessment

Directions: Use the data table to complete the graph. Then use the data to answer the questions.

Items Sold at Super Market
Water
Candy
Chips

Unit 8 Lesson 15 Homework

Directions: Use the data table to complete the graph. Then use the data to answer the questions.

the First Semester

green	yellow	red	orange	blue	purple
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CATEGORIES

8.17 MEET THE TEACHER

MATERIALS FOR TEACHER: journal pages for teacher and students, scissors, glue, pencil

8.3 PICTURE GRAPHS

I CAN STATEMENT I can fill in missing information and interpret data from picture graphs.	MATERIALS 8.3 PPT 8.3 printouts	VOCABULARY picture graph title key label category symbol
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CATEGORIES

show the choices for the data sample

SYMBOL

DATA Word Problems

How many days did they sell less than 46 pizzas?

On the 1st they sold 55 pizzas. On the 2nd they sold 17 less pizzas than the 1st. How many pizzas did they sell on the 2nd?

What is the difference between the highest number...

2ND GRADE DATA MATH UNIT

UNIT 8

INCLUDES A FULL 20 DAYS OF ENGAGING MATH LESSONS AND ACTIVITIES.

REVIEW Board Game

GO AGAIN

LOSE A TURN

BACK 3 SPACES

UD 2 SPACES

GO AGAIN

Math	5
Reading	4
Writing	3
Science	2

Which subject has the fewest number of votes?

Number of Students in Choir
5
4
3
2
1

First Grade	Second Grade	Third Grade
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How many students are in the choir from...

UNIT 8: DATA at a glance

Day 1 Picture Graph	Day 2 Picture Graphs	Day 3 Picture Graphs	Day 4 Bar Graphs	Day 5 Bar Graphs
Day 6 Bar Graphs	Day 7 Making Graphs	Day 8 Making Graphs	Day 9 Review	Day 10 Generating Data
Day 11 Generating Data	Day 12 Line Plots	Day 13 Line Plots	Day 14 Line Plots	Day 15 Adding and Subtracting Lengths
Day 16 Adding and Subtracting Lengths	Day 17 Word Problems	Day 18 Word Problems	Day 19 PBL	Day 20 Assessment

THIS UNIT COVERS THE FOLLOWING COMMON CORE MATH STANDARDS: 2.MD.5, 2.MD.6, 2.MD.9, & 2.MD.10

Notes:

Easily see your whole week at a glance with the unit pacing guide.



Making a Graph

Use the data table to make a picture graph.



Shirt Color of Students

Black

White

Gray

What shirt

Making a Graph

Use the data table to make a picture graph.

Shirt Color of Students

Black

White

Gray

4

8

5

Shirt

Black

White

Gray

Now, use the data table to

NOT SO WIMPY TEACHER

Making a Graph

Does the data table match the data in the graph?

Shirt Color of Students

Shirt Color of Students

Black

White

Gray

4

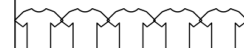
8


5

Black

White

Gray



 = 1

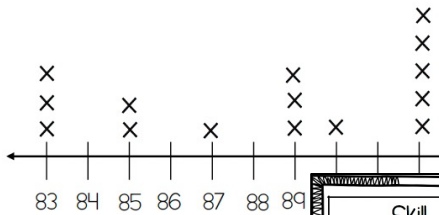
Deliver great lessons with step-by-step PowerPoints for teaching math skills.



Unit 8 Lesson 15

Directions: Use the line plot to answer the questions.

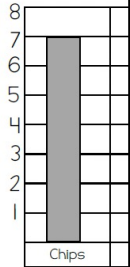
Hallie's Grades in the First 9



- What is the lowest grade?
- How many times did she get that grade?
- How many times did she get a grade of 88 or higher?

Unit 8 Lesson 5

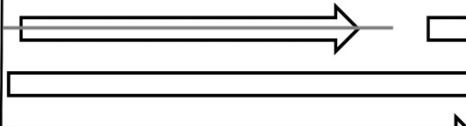
Directions: Use the bar graph below to answer the questions.



- What does the graph show?
The graph shows the number of people who like different snacks.
- What are the categories?
The categories on the graph are Chips.
- Which two snacks have the same number of votes?

Unit 8 Lesson 11

Directions: Mr. King is sorting through his bulletin board. Record the length of all of his arrows to the nearest centimeter and record the length in the table.



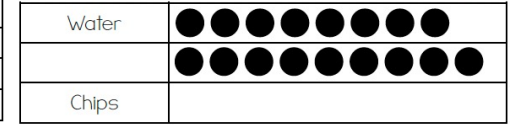
Unit 8

Assessment

Name: _____

Directions: Use the data table to complete the graph. Then use the data to answer the questions.

Items Sold at Super Mart	
Water	8
Candy	9
Chips	4



● = 1

Use the data table to fill in any missing information on the graph.

Skill	Picture Graphs	Bar Graphs	Making a Picture Graph	Making a Bar Graph	Generating Data	Making a Line Plot	Line Plots	Word Problems	
Student	1-7	8-12	13	14	15	16	17-18	19-21	TOTAL
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21
	___ / 7	___ / 5	___ / 1	___ / 1	___ / 1	___ / 1	___ / 2	___ / 3	___ / 21

?

Name: _____

Assessment Answer Key

Use the data to answer the questions.

Write the name of your favorite coffee drink.

Coffee Drink	Number of Votes
Latte	7
Iced Coffee	5
Frozen Coffee	8

How many more votes did frozen coffee receive than latte?

Which coffee drink received the same number of votes as iced coffee?

Which coffee drink received the most votes?

Which coffee drink received the fewest votes?



Track student progress with pre- & post-assessments and recording sheet.



8.11 GENERATING DATA

<u>I CAN STATEMENT</u> I can measure objects to generate data.	<u>MATERIALS</u> 8.11 PPT 8.11 printouts ruler
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8.5 BAR GRAPHS

<u>I CAN STATEMENT</u> I can interpret data from bar graphs.	<u>MATERIALS</u> 8.5 PPT 8.5 printouts	<u>VOCABULARY</u> bar graph title scale label categories bars
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MINI LESSON
Spend the first few minutes of the lesson completing the fact fluency slides. These slides allow students to practice adding 8 to numbers under 20. Using the PPT, complete the warm-up with students. These questions are a review of interpreting information from picture graphs. Using the PPT, review the following vocabulary terms: bar graph, title, key, label, categories, and bar. Model how to identify different parts of a bar graph. Using the PPT, review the following vocabulary terms: bar graph, title, key, label, categories, and bar. Model how to identify different parts of a bar graph with the students. Model how to identify different parts of a bar graph with the students. Model how to identify different parts of a bar graph with the students.

8.3 PICTURE GRAPHS

<u>I CAN STATEMENT</u> I can fill in missing information and interpret data from picture graphs.	<u>MATERIALS</u> 8.3 PPT 8.3 printouts	<u>VOCABULARY</u> picture graph title key label categories symbol
<u>MINI LESSON</u>		
<p>Spend the first few minutes of the lesson completing the fact fluency slides. These slides allow students to practice adding 8 to numbers under 20.</p> <p>Using the PPT, complete the warm-up with students. These questions are a review of interpreting information from picture graphs.</p> <p>Using the PPT, review the following vocabulary terms: picture graph, title, key, label, categories, and symbol.</p> <p>Introduce a data table to the students. Tell them that a data table is a way to collect information before you make a graph. Then, show the students how to use a data table to finish an incomplete graph.</p> <p>Model how use the data table to double check the information in the graph as you go. Then, show students how to answer questions about the data in the graph.</p>		
<u>INTERVENTION</u>	<u>EXTENSION</u>	
Pair struggling readers with stronger readers to allow all students the	Have students make a data table and matching picture graph. Then, write	

8.8 MAKING GRAPHS

<u>MATERIALS</u> 8.8 PPT 8.8 printouts	<u>VOCABULARY</u> bar graph picture graph key symbol
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8.13 MEET THE TEACHER

TEACHER: one set of paper strips, ruler, whiteboard, markers

STUDENTS: recording sheet, pencils, rulers, journals

Cut out each paper strip. Print a recording sheet for each student.

When the students arrive to meet the teacher, tell them they are going to practice our measurement skills and make a picture graph.

How to measure strip A using a ruler. Tell students that they are going to measure to the nearest inch. Have students record the length of strip A on their recording sheets.

Students measure each strip to the nearest inch and record the measurements on their recording sheets.

When the students are finished, make sure that each student has a recording sheet with their measurements.

Ask the students what the smallest measurement is. Have them compare their measurements.

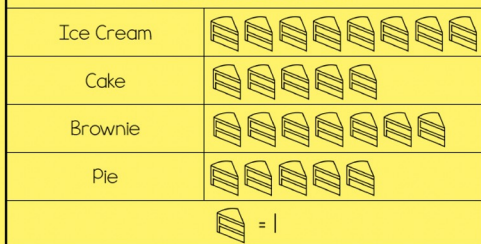


Includes whole group and differentiated small group lesson plans with activities.

Directions: Cut out the picture graphs page and glue it into your journal. Use the picture graph to answer the questions below.

PICTURE GRAPHS

Favorite Dessert



1. What is the title of the graph?
2. How many categories are on the graph?
3. Which two categories have the same number of votes?
4. Which dessert has the most votes?
5. How many more votes does brownie have than pie?

8.2 MEET THE TEACHER

MATERIALS FOR TEACHER: journal page for self and students, scissors, glue, pencil

MATERIALS FOR STUDENTS: scissors, glue, pencils, journals

APPROACHING

Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.

Complete the journal page with students.

ON TRACK

Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.

Scaffold the journal page by completing some with the students, and then let them work independently.

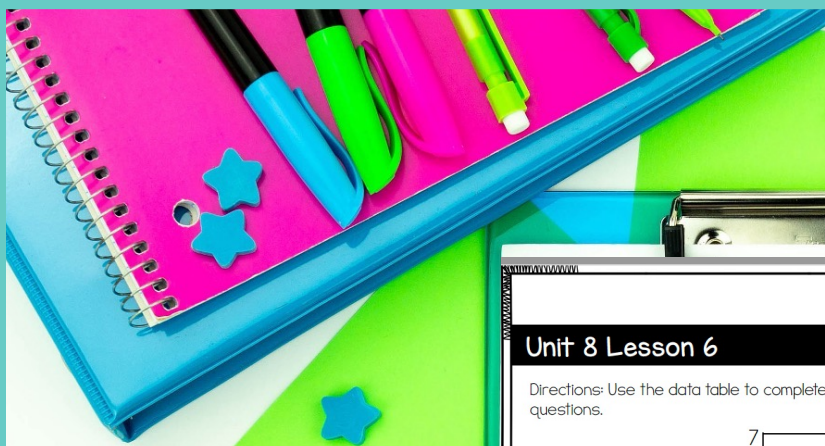
MASTERED

Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages.

Ask students to solve the problems individually, and then review their answers with them when they are finished.

NOTES:

Includes interactive notebook activities for student practice.



Name: _____

Unit 8 Lesson 6 Homework

Directions: Use the data table to complete the bar graph and use the data to answer the questions.

Shoes on Students	
Flip Flops	2
Sandals	6
Tennis Shoes	7
Boots	1

- Fill in any missing information on the graph.
- Which shoe was worn the least by students?
- How many more people are wearing sandals than flip flops?
- How many people are wearing sandals or tennis shoes?
- How many students were surveyed?

Name: _____

Unit 8 Lesson 6 Exit Ticket

Directions: Use the data table to fill in the bar graph and use the data to answer the questions.

Favorite Gum Flavor	
Spearmint	2
Peppermint	4
Bubblegum	3
Berry	3

- Fill in any missing data or information on the bar graph.
- How many people chose peppermint or berry as their favorite flavor?

Name: _____

Problem Set

Solving strategy to answer each question.

Number of books read by Students in Mrs. Franc's Class

Who read the greatest number of books?

Who read 11 more books than Brooke. How many books did they read?

Name: _____

Unit 8 Lesson 15 Exit Ticket

Directions: Use the line plot to answer the questions.

Cans Collected by Each Class

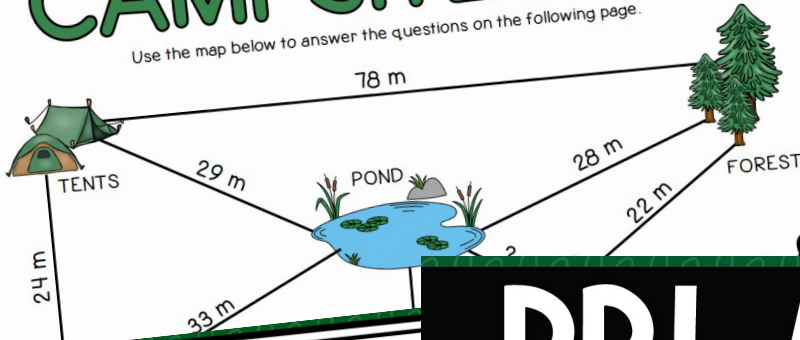
- Mr. Coffey's class collected 30 cans. Mrs. Jolley's class collected 28 cans. How many more cans did Mrs. Jolley's class collect?
- What is the difference between the most cans collected and the least?



Includes problem sets, homework, and exit tickets for each day.

CAMPSITE MAP

Use the map below to answer the questions on the following page.



GATHERING STICKS

Everyone is hungry from their walk and ready to roast hotdogs and marshmallows over the fire! The line plot below shows the sticks that were gathered before the walk. The sticks on the left were collected during the walk. Measure the sticks and add the data to the line plot. Then answer the questions.



GOING FISHING

After you arrive at camp, your troop decides to go fishing. Using the clues on the following page, determine which camper caught each fish. Write the name of the camper in the box under their fish.

PACKING

It's time to pack up everything you need for your camping trip. For each item below, circle which measurement is the most reasonable for the question at the bottom.

POCKETKNIFE

15 centimeters
15 inches

CABIN HEIGHT

5 meters
5 feet

LANTERN

11 feet
11 inches

TENT

12 feet
12 meters

FLASHLIGHT

8 centimeters
8 inches

SLEEPING BAG

2 yards
2 feet

PBL ACTIVITY

CAMPING TRIP

A PROJECT-BASED LEARNING ACTIVITY FOR 2ND GRADE

NATURE WALK

Go on a nature walk. Each group writes down the animals they see. Tally up the animals seen by each group and use this data to answer the questions about your graph.

TALLY CHART

Animals Seen			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1			
	Deer	Raccoons	Birds
			Squirrels



Includes a camping-themed project-based learning activity.