Date

The picture graph below shows data from a survey of students' favorite sports.

Favorite Sports				
Football	Soccer	Tennis	Hockey	
Each orepresents 3	students.			

- a. The same number of students picked <u>Football</u> and <u>hockey</u> as their favorite sport.
- b. How many students picked tennis as their favorite sport?

Nine students picked tennis. 3×3=9

c. How many more students picked soccer than tennis? Use a number sentence to show your thinking.

$4x_{3}=12$ (soccer) 3 more students picked soccer than tennis. $3x_{3}=9$ (tennis) $4x_{3}-3x_{3}=3$

d. How many total students were surveyed?

Il circles 33 students were surveyed.



Date _____

The chart below shows a survey of the book club's favorite type of book.

Book Club's Favorite Type of Book		
Type of Book	Number of Votes	
Mystery	12	
Biography	16	
Fantasy	20	
Science Fiction	8	

a. Draw tape diagrams with a unit size of 4 to represent the book club's favorite type of book.



b. Use your tape diagrams to draw vertical tape diagrams that represent the data.





©2015 Great Minds. eureka-math.org G3-M6-TE-1.3.0-08.2015 Name Date The bar graph below shows the students' favorite ice cream flavors. **Favorite Ice Cream Flavors Butter Pecan** Chocolate н Flavor Strawberry Vanilla ō 10 20 30 40 50 60 **Number of Students** Chocolate Strawberr \rightarrow < 60 30 40 50 20 0 0 Vanilla

- a. Use the graph's lines as a ruler to draw intervals on the number line shown above. Then plot and label a point for each flavor on the number line.
- b. Write a number sentence to show the total number of students who voted for butter pecan, vanilla, and chocolate.

butter pecan + vanilla + chocolate = 25 + 35 + 50 = 110

There were 110 students who voted for butter peran, vanilla, and chocolate.



Date



The graph below shows the number of library books checked out in five days.

c. How many books in total were checked out on Wednesday and Thursday?

210 530 books were checked out on Wednesday and Thursday. + 320 530

d. How many more books were checked out on Thursday and Friday than on Monday and Tuesday?

There were 150 more books checked out on Th/Fri than on Mon/Tue.



Name	Date	

Davon marks a 4-inch paper strip into equal parts as shown below.



- a. Label the whole and quarter inches on the paper strip.
- b. Davon tells his teacher that his paper strip measures 4 inches. Sandra says it measures 16 quarter inches. Explain how the two measurements are the same. Use words, pictures, or numbers.



This drawing shows that 4 quarter inches makes 1 inch. This means when Davon counts 4 inches, Sandra would count 16 quarter inches.





Name	Date	. <u>.</u>

Ms. Bravo measures the lengths of her third-grade students' hands in inches. The lengths are shown on the line plot below.



a. How many students are in Ms. Bravo's class? How do you know?

There are 24 students in the class because there are 24 X's.

b. How many students' hands are longer than $4\frac{2}{4}$ inches?

Nine students' hands are longer than 47 inches.

c. Darren says that more students' hands are $4\frac{2}{4}$ inches long than 4 and $5\frac{1}{4}$ inches combined. Is he right? Explain your answer.

There are 6 students with hands 4 7 inches long. There are 5 students with hands 4 or 57 inches long. Darren is correct.



Name _____

Date _____

Scientists measure the growth of mice in inches. The scientists measure the length of the mice to the nearest $\frac{1}{4}$ inch and record the measurements as shown below.

Lengths of Mice (in Inches)				
$3\frac{1}{4}$	3	$3\frac{1}{4}$	$3\frac{3}{4}$	4
$3\frac{3}{4}$	3	$4\frac{1}{2}$	$4\frac{1}{2}$	$3\frac{3}{4}$
4	$4\frac{1}{4}$	4	$4\frac{1}{4}$	4

Label each tick mark. Then, record the data on the line plot below.

Title: Lengths of Mice







Name	Date	

The line plot below shows the lengths of fish the fishing boat caught.



a. Find the three most frequent measurements on the line plot.

The three most frequent measurements are 23, 234, and 232.

b. Find the difference between the lengths of the longest and shortest fish.

Longest: 24 in Shortest: 22 in

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The difference is 2 inches.
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c. How many more fish were $23\frac{1}{4}$ inches long than 24 inches long?

23 tinches: 4 fish 24 inches: 1 fish 3 more fish were 23 tinches long.



Date

Mr. Gallagher's science class goes bird watching. The picture graph below shows the number of birds the class observes.



a. How many more birds did Mr. Gallagher's class observe on Wednesday and Thursday than on Monday and Tuesday? Wed/Thur Mon/Tue They observed 2 more birds

10×6=60 birds

8x6=48 birds

They observed 12 more birds on birds Wednesday and Thursday.

b. Mr. Manning's class observed 104 birds. How many more birds did Mr. Gallagher's class observe?

60+48=108 birds observed by Mr. Gallagher This is 4 more birds than Mr. Manning's class.



Lesson 9: Analyze data to problem solve.